[+] [–] Marco Di Renzo

> Home > Persons

by year Dagstuhl

[–] 2020 – today

2025

[j358] Majid H. Khoshafa, Felipe Augusto Dutra Bueno, Telex M. N. Nkouatchah, Marco Di Renzo: **RIS-Empowered Secured Space-Air-Ground Integrated Networks: Opportunities and Challenges.** IEEE Commun. Mag. 63(6): 130-136 (2025)

[j357] Mehdi Monemi, Mehdi Rasti, Arthur Sousa de Sena, Mohammad Amir Fallah, Matti Latva-aho, Marco Di Renzo: **Practical Challenges for Reliable RIS Deployment in Heterogeneous Multi-Operator Multi-Band Networks.** IEEE Commun. Mag. 63(6): 154-160 (2025)

[j356] Sinem Coleri, Aysun Gurur Önalan, Marco Di Renzo: **Integrating Optimization Theory with Deep**

[–] SPARQL queries new

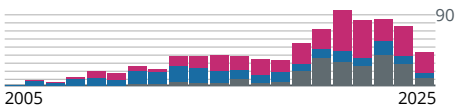
run query for this person

- highly cited coauthors
- co-cited other authors
- non-coauthors with many coauthors in common
- highly cited publications
- co-cited publications
- authors citing this author
- number of authors per paper

or build your own?

[–] Refine list

showing all 798 records



refine by search term

refine by type

- [x] Journal Articles (only)
- [x] Conference and Workshop Papers (only)
- [x] Informal and Other Publications (only)

select all | deselect all

refine by coauthor

'20
'10
'00

Learning for Wireless Network Design. IEEE Commun. Mag. 63(7): 106-112 (2025)

[j355] Houfeng Chen, Shaohua Yue, Marco Di Renzo, Hongliang Zhang: **Degrees of Freedom of Holographic MIMO in Multi-User Near-Field Channels.** IEEE Commun. Lett. 29(6): 1186-1190 (2025)

[j354] Pin-Han Ho, Miaowen Wen, Zhiguo Ding, Marco Di Renzo, Wei Duan: **Guest Editorial Special Issue on Near-Field Communications (NFCs) in Internet of Everything.** IEEE Internet Things J. 12(12): 18459-18460 (2025)

[j353] Mahsa Derakhshani, Marco Di Renzo, M. Majid Butt, Cunhua Pan, Sanjeewa Herath, Saeedeh Parsaeefard: **Guest Editorial: Ambient Internet of Things and Near-Zero Energy Communications.** IEEE Internet Things Mag. 8(3): 12-13 (2025)

[j352] Jun Li, Shuping Dang, Xuan Chen, Miaowen Wen, Marco Di Renzo, Huseyin Arslan: **Cooperative Non-Orthogonal Multiple Access With Index Modulation for Air-Ground Multi-UAV Networks.** IEEE J. Sel. Areas Commun. 43(1): 171-185 (2025)

[j351] Anal Paul, Keshav Singh, Aryan Kaushik, Chih-Peng Li, Octavia A. Dobre, Marco Di Renzo, Trung Q. Duong: **Quantum-Enhanced DRL Optimization for DoA Estimation and Task Offloading in ISAC Systems.** IEEE J. Sel. Areas Commun. 43(1): 364-381 (2025)

[j350] Yunlong Cai, A. Lee Swindlehurst, Aylin Yener, Changsheng You, Yuanwei Liu, Marco Di Renzo, Tolga M. Duman: **Guest Editorial: Special Issue on Next Generation Advanced Transceiver Technologies - Part I.** IEEE J. Sel. Areas Commun. 43(3): 577-581 (2025)

[j349] Changsheng You, Yunlong Cai, Yuanwei Liu, Marco Di Renzo, Tolga M. Duman, Aylin Yener, A. Lee Swindlehurst: **Next Generation Advanced Transceiver Technologies for 6G and Beyond.** IEEE J. Sel. Areas Commun. 43(3): 582-627 (2025)

Fabio Graziosi (72)
Harald Haas (72)
Mérouane Debbah (68)
Chau Yuen (58)
Fortunato Santucci (47)
Alessio Zappone (41)
Lajos Hanzo (37)
Christos V. Verikoukis (35)
Vincenzo Sciancalepore (34)
H. Vincent Poor (33)
785 more options

refine by orcid
no orcid (645)
0000-0003-0772-8793 (152)
0000-0002-9780-2549 (1)

refine by venue
Comput. Res. Repos. (214)
IEEE Trans. Wirel. Commun. (60)
IEEE Trans. Commun. (53)
GLOBECOM (42)
ICC (41)
IEEE Trans. Veh. Technol. (37)
IEEE Wirel. Commun. Lett. (31)
IEEE Commun. Lett. (28)
VTC (25)
IEEE J. Sel. Areas Commun. (19)
CAMAD (16)
86 more options

refine by access
closed (529)
open (269)

'20
'10
'00

[j348] Yunlong Cai, A. Lee Swindlehurst, Aylin Yener, Changsheng You, Yuanwei Liu, Marco Di Renzo, Tolga M. Duman:
Guest Editorial: Special Issue on Next Generation Advanced Transceiver Technologies - Part II. IEEE J. Sel. Areas Commun. 43(4): 1004-1008 (2025)

[j347] Qurrat-Ul-Ain Nadeem, Aryan Kaushik, Marco Di Renzo, Octavia A. Dobre, A. Lee Swindlehurst, Miguel Dajer, Doowhan Lee:
Multi-Function Reconfigurable Intelligent and Holographic Surfaces for 6G Networks. IEEE Netw. 39(1): 10-13 (2025)

[j346] Aisha Javed, Naveed Ul Hassan, Marco Di Renzo, Chau Yuen:
SIM-IPS: Stacked Intelligent Metasurface-Based Indoor Positioning System. IEEE Open J. Commun. Soc. 6: 3528-3542 (2025)

[j345] Ruizhe Long, Ying-Chang Liang, Marco Di Renzo:
Active Reconfigurable Intelligent Surface-Based Symbiotic Radio: Boosting Mutual Benefits. IEEE Trans. Cogn. Commun. Netw. 11(1): 423-436 (2025)

[j344] Placido Mursia, Francesco Devoti, Marco Rossanese, Vincenzo Sciancalepore, Gabriele Gradoni, Marco Di Renzo, Xavier Costa-Pérez:
T3DRIS: Advancing Conformal RIS Design Through In-Depth Analysis of Mutual Coupling Effects. IEEE Trans. Commun. 73(2): 889-903 (2025)

[j343] Juan Carlos Ruiz Sicilia, Marco Di Renzo, Placido Mursia, Aryan Kaushik, Vincenzo Sciancalepore:
Spatial Multiplexing in Near-Field Line-of-Sight MIMO Communications: Paraxial and Non-Paraxial Deployments. IEEE Trans. Green Commun. Netw. 9(1): 338-353 (2025)

[j342] Xin Zhang, Dongfang Xu, Jingjing Wang, Chunxiao Jiang, Shenghui Song, Marco Di Renzo:
RIS-Aided Secure Communications With Regularized Zero-Forcing Precoding. IEEE Trans. Inf. Forensics Secur. 20: 5843-5858 (2025)

[j341] Xixi Zhang, Yu Wang, Tomoaki Ohtsuki, Guan Gui, Chau Yuen, Marco Di Renzo, Hikmet Sari:
Malware Traffic Classification via Expandable Class Incremental Learning With Architecture Search. IEEE Trans. Inf. Forensics Secur. 20: 6074-6085 (2025)

[j340] Zhou Zhang, Saman Atapattu, Yizhu Wang, Marco Di Renzo:
Distributed MAC for RIS-Assisted Multiuser Networks: CSMA/CA Protocol Design and Statistical Optimization. IEEE Trans. Mob. Comput. 24(6): 4698-4715 (2025)

[j339] Guillermo Encinas-Lago, Francesco Devoti, Marco Rossanese, Vincenzo Sciancalepore, Marco Di Renzo, Xavier Costa-Pérez:
COLoRIS: Localization-Agnostic Smart Surfaces Enabling Opportunistic ISAC in 6G Networks. IEEE Trans. Mob. Comput. 24(8): 6812-6826 (2025)

[j338] Jiancheng An, Chau Yuen, Marco Di Renzo, Mérouane Debbah, H. Vincent Poor, Lajos Hanzo:
Flexible Intelligent Metasurfaces for Downlink Multiuser MISO Communications. IEEE Trans. Wirel. Commun. 24(4): 2940-2955 (2025)

[j337] Wenjun Jiang, Xiaojun Yuan, Marco Di Renzo:
Hybrid Vector Message Passing for Cascaded Channel Estimation in RIS-Aided Multi-User MIMO-OFDM Systems. IEEE Trans. Wirel. Commun. 24(5): 4174-4189 (2025)

[j336] Jiancheng An, Marco Di Renzo, Mérouane Debbah, H. Vincent Poor, Chau Yuen:
Stacked Intelligent Metasurfaces for Multiuser Downlink Beamforming in the Wave Domain. IEEE Trans. Wirel. Commun. 24(7): 5525-5538 (2025)

[j335] Ruiqi Liu, Leyi Zhang, Yu-Ngok Ruyue Li, Marco Di Renzo:
The ITU Vision and Framework for 6G: Scenarios, Capabilities, and Enablers. IEEE Veh. Technol. Mag. 20(2): 114-122 (2025)

[j334] Mohammad Soleymani, Alessio Zappone, Eduard A. Jorswieck, Marco Di Renzo, Ignacio Santamaría:
Rate Region of RIS-Aided URLLC Broadcast Channels: Diagonal Versus Beyond Diagonal Globally Passive RIS. IEEE Wirel. Commun. Lett. 14(2): 320-324 (2025)

[j333] Muhammad Wasif Shabir, Marco Di Renzo, Alessio Zappone, Mérouane Debbah:
Electromagnetically Consistent Optimization Algorithms for the Global Design of RIS. IEEE Wirel. Commun. Lett. 14(5): 1286-1290 (2025)

[c226] Domenico Ciuonzo, Alessio Zappone, Marco Di Renzo, Linlong Wu:
Massive MIMO Channel-aware Decision Fusion Aided by Reconfigurable Intelligent Surfaces. ICASSP 2025: 1-5

[c225] Yuan Hu, Gang Yang, Songbo Fu, Marco Di Renzo, Mérouane Debbah:
CellScatter: Efficient Control and Backscatter Communication via Ambient Cellular Signals. INFOCOM 2025: 1-10

[c224] Amirhossein Azarbahram, Onel L. Alcaraz López, Bruno Clerckx, Marco Di Renzo, Matti Latva-aho:
Beyond Diagonal Reconfigurable Intelligent Surfaces for Multi-Carrier RF Wireless Power Transfer. WCNC 2025: 1-6

[c223] Shuwen Lin, Jian Sang, Xiao Li, Wankai Tang, Marco Di Renzo, Shi Jin:
Energy Efficiency Optimization for RIS-Aided Systems Using a Measured Power Model. WCNC 2025: 1-6

[c222] Smriti Uniyal, Nhan Thanh Nguyen, Guddu Kumar, Marco Di Renzo, Markku J. Juntti:
Sum Rate and Cramér-Rao Lower Bound Analysis for RIS-Assisted Multiuser Large-Antenna ISAC. WCNC 2025: 1-6

[i214] Silvia Palmucci, Andrea Abrardo, Davide Dardari, Alberto Toccafondi, Marco Di Renzo:
Metaprism Design for Wireless Communications: Angle-Frequency Analysis, Physical Realizability Constraints, and Performance Optimization. CoRR abs/2501.06760 (2025)

[i213] Xing Jia, Jiancheng An, Hao Liu, Lu Gan, Marco Di Renzo, Mérouane Debbah, Chau Yuen:
Stacked Intelligent Metasurface Enabled Near-Field Multiuser Beamfocusing in the Wave Domain. CoRR abs/2502.05819 (2025)

[i212] Jiancheng An, Chau Yuen, Marco Di Renzo, Mérouane Debbah, H. Vincent Poor, Lajos Hanzo:

Downlink Multiuser Communications Relying on Flexible Intelligent Metasurfaces. CoRR abs/2502.16472 (2025)

[i211] Guillermo Encinas-Lago, Vincenzo Sciancalepore, Henk Wymeersch, Marco Di Renzo, Xavier Costa-Pérez:
RiLoCo: An ISAC-oriented AI Solution to Build RIS-empowered Networks. CoRR abs/2503.05480 (2025)

[i210] Athanasios G. Kanatas, Harris K. Armeniakos, Harpreet S. Dhillon, Marco Di Renzo:
Deterministic and Statistical Analysis of the DoF of Continuous Linear Arrays in the Near Field. CoRR abs/2503.09174 (2025)

[i209] Juan Carlos Ruiz Sicilia, Marco Di Renzo, Placido Mursia, Vincenzo Sciancalepore, Mérouane Debbah:
Degrees of Freedom of Holographic MIMO - Fundamental Theory and Analytical Methods. CoRR abs/2504.13031 (2025)

[i208] Enyu Shi, Jiayi Zhang, Jiancheng An, Marco Di Renzo, Bo Ai, Chau Yuen:
Energy-Efficient SIM-assisted Communications: How Many Layers Do We Need? CoRR abs/2504.15737 (2025)

[i207] Zhonghao Lyu, Ming Xiao, Jie Xu, Mikael Skoglund, Marco Di Renzo:
The Larger the Merrier? Efficient Large AI Model Inference in Wireless Edge Networks. CoRR abs/2505.09214 (2025)

[i206] Kaining Wang, Bo Yang, Yusheng Lei, Zhiwen Yu, Xuelin Cao, George C. Alexandropoulos, Marco Di Renzo, Chau Yuen:
Dynamical ON-OFF Control with Trajectory Prediction for Multi-RIS Wireless Networks. CoRR abs/2505.20887 (2025)

[i205] Eunhyuk Park, Seok-Hwan Park, Osvaldo Simeone, Marco Di Renzo, Shlomo Shamai:
SIM-Enabled Hybrid Digital-Wave Beamforming for Fronthaul-Constrained Cell-Free Massive MIMO Systems. CoRR abs/2506.19090 (2025)

2024

[j332] Aisha Javed, Naveed Ul Hassan, Ammar Rafique, Muhammad Zubair, Marco Di Renzo, Chau Yuen:
Fingerprinting Database Development Methods for Reconfigurable Intelligent Surface Assisted Indoor Positioning System. IEEE Access 12: 85244-85258 (2024)

[j331] Rohit Singh, Aryan Kaushik, Wonjae Shin, George C. Alexandropoulos, Mesut Toka, Marco Di Renzo:
Indexed Multiple Access with Reconfigurable Intelligent Surfaces: The Reflection Tuning Potential. IEEE Commun. Mag. 62(4): 120-126 (2024)

[j330] Wei Jiang, Qiuheng Zhou, Jiguang He, Mohammad Asif Habibi, Sergiy Melnyk, Mohammed El-Absi, Bin Han, Marco Di Renzo, Hans Dieter Schotten, Fa-Long Luo, Tarek S. El-Bawab, Markku J. Juntti, Mérouane Debbah, Victor C. M. Leung:
Terahertz Communications and Sensing for 6G and Beyond: A Comprehensive Review. IEEE Commun. Surv. Tutorials 26(4): 2326-2381 (2024)

[j329] Aryan Kaushik, Rohit Singh, Shalanika Dayarathna, Rajitha Senanayake, Marco Di Renzo, Miguel Dajer, Hyoungju Ji, Younsun Kim, Vincenzo

Sciancalepore, Alessio Zappone, Wonjae Shin:
Toward Integrated Sensing and Communications for 6G: Key Enabling Technologies, Standardization, and Challenges. IEEE Commun. Stand. Mag. 8(2): 52-59 (2024)

[j328] Ruiqi Liu, Satoshi Nagata, Xingqin Lin, Ertugrul Basar, Marco Di Renzo:
Guest Editorial: Reconfigurable Intelligent Surfaces. IEEE Commun. Stand. Mag. 8(4): 8-9 (2024)

[j327] Hongyu Li, Shanpu Shen, Matteo Nerini, Marco Di Renzo, Bruno Clerckx:
Beyond Diagonal Reconfigurable Intelligent Surfaces With Mutual Coupling: Modeling and Optimization. IEEE Commun. Lett. 28(4): 937-941 (2024)

[j326] Zhengyu Zhu, Zheng Li, Zheng Chu, Yingying Guan, Qingqing Wu, Pei Xiao, Marco Di Renzo, Inkyu Lee:
Intelligent Reflecting Surface Assisted mmWave Integrated Sensing and Communication Systems. IEEE Internet Things J. 11(18): 29427-29437 (2024)

[j325] Muhammad Ali Jamshed, Aryan Kaushik, Ana García Armada, Marco Di Renzo, Doohwan Lee, Rajitha Senanayake, Octavia A. Dobre:
Guest Editorial: Technical Advancements in NTN-Assisted Internet-of-Things: Global Connectivity from the Sky. IEEE Internet Things Mag. 7(1): 10-11 (2024)

[j324] Aryan Kaushik, Rohit Singh, Ming Li, Honghao Luo, Shalanika Dayarathna, Rajitha Senanayake, Xueli An, Richard A. Stirling-Gallacher, Wonjae Shin, Marco Di Renzo:
Integrated Sensing and Communications for IoT: Synergies with Key 6G Technology Enablers. IEEE Internet Things Mag. 7(5): 136-143 (2024)

[j323] Jiancheng An, Chau Yuen, Yong Liang Guan, Marco Di Renzo, Mérouane Debbah, H. Vincent Poor, Lajos Hanzo:
Two-Dimensional Direction-of-Arrival Estimation Using Stacked Intelligent Metasurfaces. IEEE J. Sel. Areas Commun. 42(10): 2786-2802 (2024)

[j322] Naveed Ul Hassan, Jiancheng An, Marco Di Renzo, Mérouane Debbah, Chau Yuen:
Efficient Beamforming and Radiation Pattern Control Using Stacked Intelligent Metasurfaces. IEEE Open J. Commun. Soc. 5: 599-611 (2024)

[j321] Qingqing Wu, Beixiong Zheng, Changsheng You, Lipeng Zhu, Kaiming Shen, Xiaodan Shao, Weidong Mei, Boya Di, Hongliang Zhang, Ertugrul Basar, Lingyang Song, Marco Di Renzo, Zhi-Quan Luo, Rui Zhang:
Intelligent Surfaces Empowered Wireless Network: Recent Advances and the Road to 6G. Proc. IEEE 112(7): 724-763 (2024)

[j320] Robert Kuku Fotock, Alessio Zappone, Marco Di Renzo:
Energy Efficiency Optimization in RIS-Aided Wireless Networks: Active Versus Nearly-Passive RIS With Global Reflection Constraints. IEEE Trans. Commun. 72(1): 257-272 (2024)

[j319] Chenyu Wu, Changsheng You, Yuanwei Liu, Shuai Han, Marco Di Renzo:
Two-Timescale Design for STAR-RIS-Aided NOMA Systems. IEEE Trans. Commun. 72(1): 585-600 (2024)

'20
'10
'00

[j318] Trinh Van Chien, Lam-Thanh Tu, Waqas Khalid, Heejung Yu, Symeon Chatzinotas, Marco Di Renzo:
RIS-Assisted Wireless Communications: Long-Term Versus Short-Term Phase Shift Designs. IEEE Trans. Commun. 72(2): 1175-1190 (2024)

[j317] Yongqing Xu, Yong Li, J. Andrew Zhang, Marco Di Renzo, Tony Q. S. Quek:
Joint Beamforming for RIS-Assisted Integrated Sensing and Communication Systems. IEEE Trans. Commun. 72(4): 2232-2246 (2024)

[j316] Zhenyao He, Jindan Xu, Hong Shen, Wei Xu, Chau Yuen, Marco Di Renzo:
Joint Training and Reflection Pattern Optimization for Non-Ideal RIS-Aided Multiuser Systems. IEEE Trans. Commun. 72(9): 5735-5751 (2024)

[j315] Yun Wen, Gaojie Chen, Sisai Fang, Miaowen Wen, Stefano Tomasin, Marco Di Renzo:
RIS-Assisted UAV Secure Communications With Artificial Noise-Aware Trajectory Design Against Multiple Colluding Curious Users. IEEE Trans. Inf. Forensics Secur. 19: 3064-3076 (2024)

[j314] Antonio Albanese, Francesco Devoti, Vincenzo Sciancalepore, Marco Di Renzo, Albert Banchs, Xavier Costa-Pérez:
ARES: Autonomous RIS Solution With Energy Harvesting and Self-Configuration Towards 6G. IEEE Trans. Mob. Comput. 23(12): 12006-12019 (2024)

[j313] Jian Sang, Jifeng Lan, Mingyong Zhou, Boning Gao, Wankai Tang, Xiao Li, Michail Matthaiou, Shi Jin, Marco Di Renzo:
Measurement-Based Small-Scale Channel Model for Sub-6 GHz RIS-Assisted Communications. IEEE Trans. Veh. Technol. 73(8): 12178-12183 (2024)

[j312] Teng Ma, Yue Xiao, Xia Lei, Marco Di Renzo:
Integrated Sensing and Communication With Reconfigurable Intelligent Surfaces. IEEE Trans. Veh. Technol. 73(12): 19051-19064 (2024)

[j311] Xinhong Dai, Bin Duo, Xiaojun Yuan, Marco Di Renzo:
Energy-Efficient UAV Communications in the Presence of Wind: 3D Modeling and Trajectory Design. IEEE Trans. Wirel. Commun. 23(3): 1840-1854 (2024)

[j310] Zhichao Shao, Xiaojun Yuan, Wei Zhang, Marco Di Renzo:
Joint Localization and Information Transfer for Reconfigurable Intelligent Surface Aided Full-Duplex Systems. IEEE Trans. Wirel. Commun. 23(8): 8101-8116 (2024)

[j309] Aritra Basu, Soumya P. Dash, Aryan Kaushik, Debasish Ghose, Marco Di Renzo, Yonina C. Eldar:
Performance Analysis of RIS-Aided Index Modulation With Greedy Detection Over Rician Fading Channels. IEEE Trans. Wirel. Commun. 23(8): 8465-8479 (2024)

[j308] Zhangjie Peng, Zhibo Zhang, Cunhua Pan, Marco Di Renzo, Octavia A. Dobre, Jiangzhou Wang:
Beamforming Optimization for Active RIS-Aided Multiuser Communications With Hardware Impairments. IEEE Trans. Wirel. Commun. 23(8): 9884-9898 (2024)

'20
'10
'00

[j307] Dan Yang, Jindan Xu, Wei Xu, Bin Sheng, Xiaohu You, Chau Yuen, Marco Di Renzo:
Spatially Correlated RIS-Aided Secure Massive MIMO Under CSI and Hardware Imperfections. IEEE Trans. Wirel. Commun. 23(9): 11461-11475 (2024)

[j306] Quentin Gontier, Charles Wiame, Shanshan Wang, Marco Di Renzo, Joe Wiart, François Horlin, Christo Tsigros, Claude Oestges, Philippe De Doncker:
Joint Metrics for EMF Exposure and Coverage in Real-World Homogeneous and Inhomogeneous Cellular Networks. IEEE Trans. Wirel. Commun. 23(10): 13267-13284 (2024)

[j305] Tingting Gong, Shun Zhang, Feifei Gao, Zan Li, Marco Di Renzo:
Deep Learning-Based Channel Extrapolation for Hybrid RIS-Aided mmWave Systems With Low-Resolution ADCs. IEEE Trans. Wirel. Commun. 23(10): 14408-14420 (2024)

[j304] Matteo Nerini, Shanpu Shen, Hongyu Li, Marco Di Renzo, Bruno Clerckx:
A Universal Framework for Multiport Network Analysis of Reconfigurable Intelligent Surfaces. IEEE Trans. Wirel. Commun. 23(10): 14575-14590 (2024)

[j303] Andrea Abrardo, Alberto Toccafondi, Marco Di Renzo:
Design of Reconfigurable Intelligent Surfaces by Using S-Parameter Multiport Network Theory - Optimization and Full-Wave Validation. IEEE Trans. Wirel. Commun. 23(11): 17084-17102 (2024)

[j302] Jiancheng An, Chao Xu, Qingqing Wu, Derrick Wing Kwan Ng, Marco Di Renzo, Chau Yuen, Lajos Hanzo:
Codebook-Based Solutions for Reconfigurable Intelligent Surfaces and Their Open Challenges. IEEE Wirel. Commun. 31(2): 134-141 (2024)

[j301] Jiancheng An, Chau Yuen, Linglong Dai, Marco Di Renzo, Mérouane Debbah, Lajos Hanzo:
Near-Field Communications: Research Advances, Potential, and Challenges. IEEE Wirel. Commun. 31(3): 100-107 (2024)

[j300] Jiancheng An, Chau Yuen, Chao Xu, Hongbin Li, Derrick Wing Kwan Ng, Marco Di Renzo, Mérouane Debbah, Lajos Hanzo:
Stacked Intelligent Metasurface-Aided MIMO Transceiver Design. IEEE Wirel. Commun. 31(4): 123-131 (2024)

[j299] Hajar El Hassani, Xuewen Qian, Sumin Jeong, Nemanja Stefan Perovic, Marco Di Renzo, Placido Mursia, Vincenzo Sciancalepore, Xavier Costa-Pérez:
Optimization of RIS-Aided MIMO - A Mutually Coupled Loaded Wire Dipole Model. IEEE Wirel. Commun. Lett. 13(3): 726-730 (2024)

[j298] Xianghao Yao, Jiancheng An, Lu Gan, Marco Di Renzo, Chau Yuen:
Channel Estimation for Stacked Intelligent Metasurface-Assisted Wireless Networks. IEEE Wirel. Commun. Lett. 13(5): 1349-1353 (2024)

[j297] Deyou Zhang, Sicong Ye, Ming Xiao, Kezhi Wang, Marco Di Renzo, Mikael Skoglund:
Fluid Antenna Array Enhanced Over-the-Air Computation. IEEE Wirel. Commun. Lett. 13(6): 1541-1545 (2024)

'20
'10
'00

[c221] Majid H. Khoshafa, Gamil Ahmed, Telex Magloire Nkouatchah Ngatched, Marco Di Renzo:
Aerial Reconfigurable Intelligent Surface-Assisted Secured Wireless Communication Systems. GLOBECOM 2024: 2557-2562

[c220] Zhou Zhang, Saman Atapattu, Yizhu Wang, Marco Di Renzo:
Throughput Optimization in Cache-aided Networks: An Opportunistic Probing and Scheduling Approach. GLOBECOM 2024: 3551-3556

[c219] Ziqing Wang, Hongzheng Liu, Jianan Zhang, Rujing Xiong, Kai Wan, Xuewen Qian, Marco Di Renzo, Robert Caiming Qiu:
Multi-user ISAC through Stacked Intelligent Metasurfaces: New Algorithms and Experiments. GLOBECOM 2024: 4442-4447

[c218] Jiancheng An, Chau Yuen, Marco Di Renzo, Mérouane Debbah, H. Vincent Poor, Lajos Hanzo:
Downlink Multiuser Communications Relying on Flexible Intelligent Metasurfaces. GLOBECOM 2024: 4932-4937

[c217] Robert Kuku Fotock, Alessio Zappone, Marco Di Renzo:
Secrecy Energy Efficiency Maximization in RIS-Aided Wireless Networks. ICC 2024: 3065-3070

[c216] Jiancheng An, Chau Yuen, Yong Liang Guan, Marco Di Renzo, Mérouane Debbah, H. Vincent Poor, Lajos Hanzo:
Stacked Intelligent Metasurface Performs a 2D DFT in the Wave Domain for DOA Estimation. ICC 2024: 3445-3451

[c215] Robert Kuku Fotock, Agbotiname Lucky Imoize, Alessio Zappone, Marco Di Renzo, Roberto Garello:
Secrecy Energy Efficiency Maximization in RIS-Aided Wireless Networks with Statistical CSI. SPAWC 2024: 696-700

[c214] Mohammad Soleymani, Ignacio Santamaría, Eduard A. Jorswieck, Marco Di Renzo, Jesús Gutiérrez:
Energy Efficiency Comparison of RIS Architectures in MISO Broadcast Channels. SPAWC 2024: 701-705

[c213] Gurjot Singh Bhatia, Yoann Corre, Linus Thrybom, Marco Di Renzo:
Analysis of 3GPP and Ray-Tracing Based Channel Model for 5G Industrial Network Planning. VTC Fall 2024: 1-7

[c212] Xing Jia, Jiancheng An, Hao Liu, Lu Gan, Marco Di Renzo, Mérouane Debbah, Chau Yuen:
Stacked Intelligent Metasurface Enabled Near-Field Multiuser Beamfocusing in the Wave Domain. VTC Spring 2024: 1-5

[i204] Ahmed Magbool, Vaibhav Kumar, Qingqing Wu, Marco Di Renzo, Mark F. Flanagan:
A Survey on Integrated Sensing and Communication with Intelligent Metasurfaces: Trends, Challenges, and Opportunities. CoRR abs/2401.15562 (2024)

[i203] Jiancheng An, Chau Yuen, Yong Liang Guan, Marco Di Renzo, Mérouane Debbah, H. Vincent Poor, Lajos Hanzo:
Two-Dimensional Direction-of-Arrival Estimation Using Stacked Intelligent Metasurfaces. CoRR abs/2402.08224 (2024)

[i202] Zhangjie Peng, Zhibo Zhang, Cunhua Pan, Marco Di Renzo, Octavia A. Dobre, Jiangzhou Wang:

Beamforming Optimization for Active RIS-Aided Multiuser Communications With Hardware Impairments. CoRR abs/2402.10687 (2024)

[i201] Rohit Singh, Aryan Kaushik, Wonjae Shin, Marco Di Renzo, Vincenzo Sciancalepore, Doohwan Lee, Hirofumi Sasaki, Arman Shojaeifard, Octavia A. Dobre:
Towards 6G Evolution: Three Enhancements, Three Innovations, and Three Major Challenges. CoRR abs/2402.10781 (2024)

[i200] Xianghao Yao, Jiancheng An, Lu Gan, Marco Di Renzo, Chau Yuen:
Channel Estimation for Stacked Intelligent Metasurface-Assisted Wireless Networks. CoRR abs/2403.05870 (2024)

[i199] Majid H. Khoshafa, Omar Maraqa, Jules Merlin Mouatcho Moualeu, Sylvester B. Aboagye, Telex Magloire Nkouatchah Ngatched, Mohamed Hossam Ahmed, Yasser Gadallah, Marco Di Renzo:
RIS-Assisted Physical Layer Security in Emerging RF and Optical Wireless Communication Systems: A Comprehensive Survey. CoRR abs/2403.10412 (2024)

[i198] Changsheng You, Yunlong Cai, Yuanwei Liu, Marco Di Renzo, Tolga M. Duman, Aylin Yener, A. Lee Swindlehurst:
Next Generation Advanced Transceiver Technologies for 6G. CoRR abs/2403.16458 (2024)

[i197] Zhenyao He, Jindan Xu, Hong Shen, Wei Xu, Chau Yuen, Marco Di Renzo:
Joint Training and Reflection Pattern Optimization for Non-Ideal RIS-Aided Multiuser Systems. CoRR abs/2403.19955 (2024)

[i196] Dan Yang, Jindan Xu, Wei Xu, Bin Sheng, Xiaohu You, Chau Yuen, Marco Di Renzo:
Spatially Correlated RIS-Aided Secure Massive MIMO Under CSI and Hardware Imperfections. CoRR abs/2404.05239 (2024)

[i195] Placido Mursia, Francesco Devoti, Marco Rossanese, Vincenzo Sciancalepore, Gabriele Gradoni, Marco Di Renzo, Xavier Costa-Pérez:
T3DRIS: Advancing Conformal RIS Design through In-depth Analysis of Mutual Coupling Effects. CoRR abs/2404.05261 (2024)

[i194] Giuseppe Pettanice, Marco Di Renzo, Sumin Jeong, Roberto Valentini, Piergiuseppe Di Marco, Fortunato Santucci, Daniele Romano, Giulio Antonini:
Multiport Network Modeling for Reconfigurable Intelligent Surfaces: Numerical Validation with a Full-Wave PEEC Simulator. CoRR abs/2404.18310 (2024)

[i193] Giuseppe Pettanice, Marco Di Renzo, Roberto Valentini, Sumin Jeong, Piergiuseppe Di Marco, Fortunato Santucci, Daniele Romano, Giulio Antonini:
Design and Optimization of Reconfigurable Intelligent Surfaces Using the PEEC Method. CoRR abs/2404.18315 (2024)

[i192] Ziqing Wang, Hongzheng Liu, Jianan Zhang, Rujing Xiong, Kai Wan, Xuewen Qian, Marco Di Renzo, Robert Caiming Qiu:
Multi-user ISAC through Stacked Intelligent Metasurfaces: New Algorithms and Experiments. CoRR abs/2405.01104 (2024)

[i191] Khurshid Alam, Mohammad Asif Habibi, Matthias Tammen, Dennis Krummacker, Walid Saad, Marco Di Renzo, Tommaso Melodia, Xavier Costa-Pérez, Mérouane Debbah, Ashutosh Dutta, Hans D. Schotten:

A Comprehensive Overview and Survey of O-RAN: Exploring Slicing-aware Architecture, Deployment Options, and Use Cases. CoRR abs/2405.03555 (2024)

[i190] Ruiqi Liu, Shuang Zheng, Qingqing Wu, Yifan Jiang, Nan Zhang, Yuanwei Liu, Marco Di Renzo, George C. Alexandropoulos:
Sustainable Wireless Networks via Reconfigurable Intelligent Surfaces (RISs): Overview of the ETSI ISG RIS. CoRR abs/2406.05647 (2024)

[i189] Guillermo Encinas-Lago, Francesco Devoti, Marco Rossanese, Vincenzo Sciancalepore, Marco Di Renzo, Xavier Costa-Pérez:
COLoRIS: Localization-agnostic Smart Surfaces Enabling Opportunistic ISAC in 6G Networks. CoRR abs/2406.07377 (2024)

[i188] Juan Carlos Ruiz Sicilia, Marco Di Renzo, Placido Mursia, Aryan Kaushik, Vincenzo Sciancalepore:
Spatial Multiplexing in Near-Field Line-of-Sight MIMO Communications: Paraxial and Non-Paraxial Deployments. CoRR abs/2406.19084 (2024)

[i187] Muhammad Ali Jamshed, Aryan Kaushik, Miguel Dajer, Alessandro Guidotti, Fanny Parzysz, Eva Lagunas, Marco Di Renzo, Symeon Chatzinotas, Octavia A. Dobre:
Non-Terrestrial Networks for 6G: Integrated, Intelligent and Ubiquitous Connectivity. CoRR abs/2407.02184 (2024)

[i186] Gurjot Singh Bhatia, Yoann Corre, Linus Thrybom, Marco Di Renzo:
Analysis of 3GPP and Ray-Tracing Based Channel Model for 5G Industrial Network Planning. CoRR abs/2407.16528 (2024)

[i185] Mehdi Monemi, Mehdi Rasti, Arthur Sousa de Sena, Mohammad Amir Fallah, Matti Latva-aho, Marco Di Renzo:
Practical Challenges for Reliable RIS Deployment in Heterogeneous Multi-Operator Multi-Band Networks. CoRR abs/2408.15867 (2024)

[i184] Yifei Yuan, Yuhong Huang, Xin Su, Boyang Duan, Nan Hu, Marco Di Renzo:
Reconfigurable Intelligent Surface (RIS) System Level Simulations for Industry Standards. CoRR abs/2409.13405 (2024)

[i183] Muhammad Wasif Shabir, Marco Di Renzo, Alessio Zappone, Mérouane Debbah:
Electromagnetically Consistent Optimization Algorithms for the Global Design of RIS. CoRR abs/2409.17295 (2024)

[i182] Silvia Palmucci, Giulio Bartoli, Andrea Abrardo, Marco Moretti, Marco Di Renzo:
Power Minimization with Rate Constraints for Multi-User MIMO Systems with Large-Size RISs. CoRR abs/2410.04567 (2024)

[i181] Enyu Shi, Jiayi Zhang, Ziheng Liu, Yiyang Zhu, Chau Yuen, Derrick Wing Kwan Ng, Marco Di Renzo, Bo Ai:
Joint Precoding and AP Selection for Energy Efficient RIS-aided Cell-Free Massive MIMO Using Multi-agent Reinforcement Learning. CoRR abs/2411.11070 (2024)

[i180] Marco Di Renzo, Philipp del Hougne:
Multiport Network Theory for Modeling and Optimizing Reconfigurable Metasurfaces. CoRR abs/2411.19685 (2024)

[i179] Marco Di Renzo:
State of the Art on Stacked Intelligent Metasurfaces: Communication, Sensing and Computing in the Wave Domain. CoRR abs/2411.19687 (2024)

[i178] Sinem Coleri, Aysun Gurur Önalan, Marco Di Renzo:
Integrating Optimization Theory with Deep Learning for Wireless Network Design. CoRR abs/2412.08761 (2024)

2023

[j296] Jindan Xu, Chau Yuen, Chongwen Huang, Naveed Ul Hassan, George C. Alexandropoulos, Marco Di Renzo, Mérouane Debbah:
Reconfiguring wireless environments via intelligent surfaces for 6G: reflection, modulation, and security. Sci. China Inf. Sci. 66(3) (2023)

[j295] Ana García Armada, Marco Di Renzo:
IEEE International Mediterranean Conference on Communications and Networking (IEEE MEDITCOM 2023). IEEE Commun. Mag. 61(12): 6-7 (2023)

[j294] Cheng-Xiang Wang, Xiaohu You, Xiqi Gao, Xiuming Zhu, Zixin Li, Chuan Zhang, Haiming Wang, Yongming Huang, Yunfei Chen, Harald Haas, John S. Thompson, Erik G. Larsson, Marco Di Renzo, Wen Tong, Peiying Zhu, Xuemin Shen, H. Vincent Poor, Lajos Hanzo:
On the Road to 6G: Visions, Requirements, Key Technologies, and Testbeds. IEEE Commun. Surv. Tutorials 25(2): 905-974 (2023)

[j293] Marco Di Renzo:
Reviewers and Editors Appreciation 2022. IEEE Commun. Lett. 27(2): 399 (2023)

[j292] Marco Di Renzo, Daniel B. da Costa:
EiC Farewell and Welcome to New EiC. IEEE Commun. Lett. 27(7): 1662-1663 (2023)

[j291] Giulio Bartoli, Andrea Abrardo, Nicolò Decarli, Davide Dardari, Marco Di Renzo:
Spatial multiplexing in near field MIMO channels with reconfigurable intelligent surfaces. IET Signal Process. 17(3) (2023)

[j290] Angeliki Alexiou, Mérouane Debbah, Marco Di Renzo, Emilio Calvanese Strinati, Harish Viswanathan:
Guest Editorial Beyond Shannon Communications - A Paradigm Shift to Catalyze 6G. IEEE J. Sel. Areas Commun. 41(8): 2299-2305 (2023)

[j289] Ammar Rafique, Naveed Ul Hassan, Muhammad Zubair, Ijaz Haider Naqvi, Muhammad Qasim Mehmood, Marco Di Renzo, Mérouane Debbah, Chau Yuen:
Reconfigurable Intelligent Surfaces: Interplay of Unit Cell and Surface-Level Design and Performance Under Quantifiable Benchmarks. IEEE Open J. Commun. Soc. 4: 1583-1599 (2023)

[j288] Fadil Habibi Danufane, Marco Di Renzo:
Analysis of the Delay Distribution in Cellular Networks by Using Stochastic Geometry. IEEE Open J. Commun. Soc. 4: 1728-1744 (2023)

[j287] Ruiqi Liu, Nizar Zorba, Tianqi Mao, Gunes Karabulut-Kurt, Marco Di Renzo, Petar Popovski:

Guest Editorial: Special Section on Advancements for 6G. IEEE Open J. Commun. Soc. 4: 2483-2486 (2023)

[j286] Stylianos E. Trevlakis, Alexandros-Apostolos A. Boulogeorgos, Dimitrios Pliatsios, Jorge Querol, Konstantinos Ntontin, Panagiotis G. Sarigiannidis, Symeon Chatzinotas, Marco Di Renzo:
Localization as a Key Enabler of 6G Wireless Systems: A Comprehensive Survey and an Outlook. IEEE Open J. Commun. Soc. 4: 2733-2801 (2023)

[j285] Mohamad H. Dinan, Marco Di Renzo, Mark F. Flanagan:
RIS-Assisted Receive Quadrature Spatial Modulation With Low-Complexity Greedy Detection. IEEE Trans. Commun. 71(11): 6546-6560 (2023)

[j284] Yanbo Zhang, Zheng Yang, Jingjing Cui, Peng Xu, Gaojie Chen, Yi Wu, Marco Di Renzo:
STAR-RIS Assisted Secure Transmission for Downlink Multi-Carrier NOMA Networks. IEEE Trans. Inf. Forensics Secur. 18: 5788-5803 (2023)

[j283] Kangda Zhi, Cunhua Pan, Hong Ren, Kezhi Wang, Maged Elkashlan, Marco Di Renzo, Robert Schober, H. Vincent Poor, Jiangzhou Wang, Lajos Hanzo:
Two-Timescale Design for Reconfigurable Intelligent Surface-Aided Massive MIMO Systems With Imperfect CSI. IEEE Trans. Inf. Theory 69(5): 3001-3033 (2023)

[j282] Hanlin Xiu, Zhen Gao, Anwen Liao, Yikun Mei, Dezhi Zheng, Shufeng Tan, Marco Di Renzo, Lajos Hanzo:
Joint Activity Detection and Channel Estimation for Massive IoT Access Based on Millimeter-Wave/Terahertz Multi-Panel Massive MIMO. IEEE Trans. Veh. Technol. 72(1): 1349-1354 (2023)

[j281] Ke Jiang, Ping Yang, Marco Di Renzo, Yue Xiao, Shaoqian Li, Wei Xiang:
Beam Direction-Based Modulation for Millimeter-Wave Communication Systems: Design and Optimization. IEEE Trans. Veh. Technol. 72(3): 3392-3403 (2023)

[j280] Wei Shi, Jindan Xu, Wei Xu, Marco Di Renzo, Chunming Zhao:
Secure Outage Analysis of RIS-Assisted Communications With Discrete Phase Control. IEEE Trans. Veh. Technol. 72(4): 5435-5440 (2023)

[j279] Ying Gao, Qingqing Wu, Guangchi Zhang, Wen Chen, Derrick Wing Kwan Ng, Marco Di Renzo:
Beamforming Optimization for Active Intelligent Reflecting Surface-Aided SWIPT. IEEE Trans. Wirel. Commun. 22(1): 362-378 (2023)

[j278] Tu Viet Nguyen, Diep N. Nguyen, Marco Di Renzo, Rui Zhang:
Leveraging Secondary Reflections and Mitigating Interference in Multi-IRS/RIS Aided Wireless Networks. IEEE Trans. Wirel. Commun. 22(1): 502-517 (2023)

[j277] Zhangjie Peng, Ruisong Weng, Cunhua Pan, Gui Zhou, Marco Di Renzo, A. Lee Swindlehurst:
Robust Transmission Design for RIS-Assisted Secure Multiuser Communication Systems in the Presence of Hardware Impairments. IEEE Trans. Wirel. Commun. 22(11): 7506-7521 (2023)

[j276] Chao Xu, Jiancheng An, Tong Bai, Shinya Sugiura, Robert G. Maunder, Lie-Liang Yang, Marco Di Renzo, Lajos Hanzo:

Antenna Selection for Reconfigurable Intelligent Surfaces: A Transceiver-Agnostic Passive Beamforming Configuration. IEEE Trans. Wirel. Commun. 22(11): 7756-7774 (2023)

[j275] Fan Jiang, Andrea Abrardo, Kamran Keykhosravi, Henk Wymeersch, Davide Dardari, Marco Di Renzo:
Two-Timescale Transmission Design and RIS Optimization for Integrated Localization and Communications. IEEE Trans. Wirel. Commun. 22(12): 8587-8602 (2023)

[j274] Xiangming Cai, Chongwen Huang, Ertugrul Basar, Weikai Xu, Lin Wang, Marco Di Renzo, Chau Yuen:
Toward RIS-Aided Non-Coherent Communications: A Joint Index Keying M-ary Differential Chaos Shift Keying System. IEEE Trans. Wirel. Commun. 22(12): 9045-9062 (2023)

[j273] Christos Masouros, J. Andrew Zhang, Fan Liu, Le Zheng, Henk Wymeersch, Marco Di Renzo:
Guest Editorial: Integrated Sensing and Communications for 6G. IEEE Wirel. Commun. 30(1): 14-15 (2023)

[j272] Björn Sihlbom, Marios I. Poulakis, Marco Di Renzo:
Reconfigurable Intelligent Surfaces: Performance Assessment Through a System-Level Simulator. IEEE Wirel. Commun. 30(4): 98-106 (2023)

[j271] Vaibhav Kumar, Rui Zhang, Marco Di Renzo, Le-Nam Tran:
A Novel SCA-Based Method for Beamforming Optimization in IRS/RIS-Assisted MU-MISO Downlink. IEEE Wirel. Commun. Lett. 12(2): 297-301 (2023)

[j270] Placido Mursia, Sendy Phang, Vincenzo Sciancalepore, Gabriele Gradoni, Marco Di Renzo:
SARIS: Scattering Aware Reconfigurable Intelligent Surface Model and Optimization for Complex Propagation Channels. IEEE Wirel. Commun. Lett. 12(11): 1921-1925 (2023)

[c211] Nemanja Stefan Perovic, Le-Nam Tran, Marco Di Renzo, Mark F. Flanagan:
Optimization of RIS-Aided SISO Systems Based on a Mutually Coupled Loaded Wire Dipole Model. ACSSC 2023: 145-150

[c210] Guillermo Encinas-Lago, Marco Rossanese, Vincenzo Sciancalepore, Marco Di Renzo, Xavier Costa-Pérez:
RIShield: Enabling Electromagnetic Blackout in Radiation-Sensitive Environments. CAMSAP 2023: 16-20

[c209] Gurjot Singh Bhatia, Yoann Corre, Marco Di Renzo:
Efficient Ray-Tracing Channel Emulation in Industrial Environments: An Analysis of Propagation Model Impact. EuCNC/6G Summit 2023: 180-185

[c208] Juan Carlos Ruiz Sicilia, Marco Di Renzo, Mérouane Debbah, H. Vincent Poor:
Low Complexity Optimization for Line-of-Sight RIS-Aided Holographic Communications. EUSIPCO 2023: 900-904

[c207] Shuo Li, Ejder Bastug, Catello Di Martino, Marco Di Renzo:
Dynamic Function Allocation in Edge Serverless Computing Networks. GLOBECOM 2023: 486-491

'20
'10
'00

[c206] Zixing Tang, Yuanbin Chen, Ying Wang, Tianqi Mao, Qingqing Wu, Marco Di Renzo, Lajos Hanzo:
Near-Field Sparse Channel Estimation for Extremely Large-Scale RIS-Aided Wireless Communications. GLOBECOM (Workshops) 2023: 1373-1379

[c205] Marouan Mizmizi, Dario Tagliaferri, Marco Di Renzo, Umberto Spagnolini:
Space-Time Phase Coupling in STMM-based Wireless Communications. GLOBECOM 2023: 1417-1422

[c204] Zhou Zhang, Saman Atapattu, Yizhu Wang, Marco Di Renzo:
Distributed CSMA/CA MAC Protocol for RIS-Assisted Networks. GLOBECOM 2023: 2402-2407

[c203] Tierui Gong, Chongwen Huang, Jiguang He, Marco Di Renzo, Mérouane Debbah, Chau Yuen:
A Transmit-Receive Parameter Separable Electromagnetic Channel Model for LoS Holographic MIMO. GLOBECOM 2023: 5701-5706

[c202] Guillermo Encinas-Lago, Antonio Albanese, Vincenzo Sciancalepore, Marco Di Renzo, Xavier Costa-Pérez:
Unlocking Metasurface Practicality for B5G Networks: AI-assisted RIS Planning. GLOBECOM 2023: 6560-6566

[c201] Robert Kuku Fotock, Alessio Zappone, Marco Di Renzo:
Energy Efficiency Maximization in RIS-aided Networks with Global Reflection Constraints. ICASSP 2023: 1-5

[c200] Yizhe Zhao, Long Zhang, Jie Hu, Kun Yang, Marco Di Renzo:
Reflective Group Number Based Index Modulation for Intelligent Reflecting Surface Assisted Wireless Communications. ICC 2023: 265-270

[c199] Robert Kuku Fotock, Alessio Zappone, Marco Di Renzo:
Energy Efficiency in RIS-Aided Wireless Networks: Active or Passive RIS? ICC 2023: 2704-2709

[c198] Jiancheng An, Marco Di Renzo, Mérouane Debbah, Chau Yuen:
Stacked Intelligent Metasurfaces for Multiuser Beamforming in the Wave Domain. ICC 2023: 2834-2839

[c197] Mengbing Liu, Chongwen Huang, Marco Di Renzo, Mérouane Debbah, Chau Yuen:
Cooperative Beamforming and RISs Association for Multi-RISs Aided Multi-Users MmWave MIMO Systems Through Graph Neural Networks. ICC 2023: 4286-4291

[c196] Shumin Wang, Marco Di Renzo, Marios Poulakis:
Multibeam Beamforming Design in RIS-aided SISO Communications Subject to Reradiation Masks - Optimization and Machine Learning Methods. ISWCS 2023: 1-6

[c195] Gurjot Singh Bhatia, Yoann Corre, Marco Di Renzo:
Tuning of Ray-Based Channel Model for 5G Indoor Industrial Scenarios. MeditCom 2023: 311-316

[i177] Mohamad H. Dinan, Marco Di Renzo, Mark F. Flanagan:
RIS-Assisted Receive Quadrature Spatial Modulation with Low-Complexity Greedy Detection. CoRR abs/2301.00707 (2023)

'20
'10
'00

[i176] Juan Carlos Ruiz Sicilia, Xuewen Qian, Marco Di Renzo, Vincenzo Sciancalepore, Mérouane Debbah, Xavier Costa-Pérez: **On the Degrees of Freedom of RIS-Aided Holographic MIMO Systems.** CoRR abs/2301.07968 (2023)

[i175] Placido Mursia, Sendy Phang, Vincenzo Sciancalepore, Gabriele Gradoni, Marco Di Renzo: **Modeling and Optimization of Reconfigurable Intelligent Surfaces in Propagation Environments with Scattering Objects.** CoRR abs/2302.01739 (2023)

[i174] Jiancheng An, Marco Di Renzo, Mérouane Debbah, Chau Yuen: **Stacked Intelligent Metasurfaces for Multiuser Beamforming in the Wave Domain.** CoRR abs/2302.03188 (2023)

[i173] Quentin Gontier, Charles Wiame, Shanshan Wang, Marco Di Renzo, Joe Wiart, François Horlin, Christo Tsigros, Claude Oestges, Philippe De Doncker: **Joint Metrics for EMF Exposure and Coverage in Real-World Homogeneous and Inhomogeneous Cellular Networks.** CoRR abs/2302.03559 (2023)

[i172] Rohit Singh, Aryan Kaushik, Wonjae Shin, George C. Alexandropoulos, Mesut Toka, Marco Di Renzo: **Indexed Multiple Access with Reconfigurable Intelligent Surfaces: The Reflection Tuning Potential.** CoRR abs/2302.07476 (2023)

[i171] Antonio Albanese, Francesco Devoti, Vincenzo Sciancalepore, Marco Di Renzo, Albert Banchs, Xavier Costa-Pérez: **ARES: Autonomous RIS solution with Energy harvesting and Self-configuration towards 6G.** CoRR abs/2303.01161 (2023)

[i170] Robert Kuku Fotock, Alessio Zappone, Marco Di Renzo: **Energy Efficiency in RIS-Aided Wireless Networks: Active or Passive RIS?** CoRR abs/2303.04505 (2023)

[i169] Ammar Rafique, Naveed Ul Hassan, Muhammad Zubair, Ijaz Haider Naqvi, Muhammad Qasim Mehmood, Chau Yuen, Marco Di Renzo, Mérouane Debbah: **Reconfigurable Intelligent Surfaces: Interplay of Unit-Cell- and Surface-Level Design and Performance under Quantifiable Benchmarks.** CoRR abs/2304.01843 (2023)

[i168] Juan Carlos Ruiz Sicilia, Marco Di Renzo, Mérouane Debbah, H. Vincent Poor: **Low Complexity Optimization for Line-of-Sight RIS-Aided Holographic Communications.** CoRR abs/2304.06330 (2023)

[i167] Xinhong Dai, Bin Duo, Xiaojun Yuan, Marco Di Renzo: **Energy-Efficient UAV Communications in the Presence of Wind: 3D Modeling and Trajectory Design.** CoRR abs/2304.06909 (2023)

[i166] Nemanja Stefan Perovic, Le-Nam Tran, Marco Di Renzo, Mark F. Flanagan: **Optimization of RIS-aided SISO Systems Based on a Mutually Coupled Loaded Wire Dipole Model.** CoRR abs/2305.12735 (2023)

[i165] Ruiqi Liu, Yu-Ngok Ruyue Li, Marco Di Renzo, Lajos Hanzo: **A Vision and An Evolutionary Framework for 6G: Scenarios, Capabilities and Enablers.** CoRR abs/2305.13887 (2023)

[i164] Gurjot Singh Bhatia, Yoann Corre, Marco Di Renzo:
Efficient Ray-Tracing Channel Emulation in Industrial Environments: An Analysis of Propagation Model Impact. CoRR abs/2306.01408 (2023)

[i163] Hajar El Hassani, Xuewen Qian, S. Jeong, Nemanja Stefan Perovic, Marco Di Renzo, Placido Mursia, Vincenzo Sciancalepore, Xavier Costa-Pérez:
Optimization of RIS-Aided MIMO - A Mutually Coupled Loaded Wire Dipole Model. CoRR abs/2306.09480 (2023)

[i162] Aritra Basu, Soumya P. Dash, Aryan Kaushik, Debasish Ghose, Marco Di Renzo, Yonina C. Eldar:
RIS-Aided Index Modulation with Greedy Detection over Rician Fading Channels. CoRR abs/2307.09417 (2023)

[i161] Aryan Kaushik, Rohit Singh, Shalanika Dayarathna, Rajitha Senanayake, Marco Di Renzo, Miguel Dajer, Hyoungju Ji, Younsun Kim, Vincenzo Sciancalepore, Alessio Zappone, Wonjae Shin:
Towards Integrated Sensing and Communications for 6G: A Standardization Perspective. CoRR abs/2308.01227 (2023)

[i160] Juan Carlos Ruiz Sicilia, Marco Di Renzo, Marco Donald Migliore, Mérouane Debbah, H. Vincent Poor:
On the Degrees of Freedom and Eigenfunctions of Line-of-Sight Holographic MIMO Communications. CoRR abs/2308.08009 (2023)

[i159] Tierui Gong, Chongwen Huang, Jiguang He, Marco Di Renzo, Mérouane Debbah, Chau Yuen:
A Transmit-Receive Parameter Separable Electromagnetic Channel Model for LoS Holographic MIMO. CoRR abs/2308.14356 (2023)

[i158] Andrea Abrardo, Alberto Toccafondi, Marco Di Renzo:
Analysis and Optimization of Reconfigurable Intelligent Surfaces Based on S-Parameters Multiport Network Theory. CoRR abs/2308.16856 (2023)

[i157] Jiancheng An, Marco Di Renzo, Mérouane Debbah, H. Vincent Poor, Chau Yuen:
Stacked Intelligent Metasurfaces for Multiuser Downlink Beamforming in the Wave Domain. CoRR abs/2309.02687 (2023)

[i156] Trinh Van Chien, Lam-Thanh Tu, Waqas Khalid, Heejung Yu, Symeon Chatzinotas, Marco Di Renzo:
RIS-Assisted Wireless Communications: Long-Term versus Short-Term Phase Shift Designs. CoRR abs/2309.03436 (2023)

[i155] Gurjot Singh Bhatia, Yoann Corre, Marco Di Renzo:
Tuning of Ray-Based Channel Model for 5G Indoor Industrial Scenarios. CoRR abs/2309.06101 (2023)

[i154] Jiancheng An, Chau Yuen, Linglong Dai, Marco Di Renzo, Mérouane Debbah, Lajos Hanzo:
Toward Beamfocusing-Aided Near-Field Communications: Research Advances, Potential, and Challenges. CoRR abs/2309.09242 (2023)

[i153] Zhou Zhang, Saman Atapattu, Yizhu Wang, Marco Di Renzo:
Distributed CSMA/CA MAC Protocol for RIS-Assisted Networks. CoRR abs/2309.12526 (2023)

[i152] Aryan Kaushik, Rohit Singh, Ming Li, Honghao Luo, Shalanika Dayarathna, Rajitha Senanayake, Xueli An, Richard A. Stirling-Gallacher, Wonjae Shin, Marco Di Renzo:

Integrated Sensing and Communications for IoT: Synergies with Key 6G Technology Enablers. CoRR abs/2309.13542 (2023)

[i151] Hongyu Li, Shanpu Shen, Matteo Nerini, Marco Di Renzo, Bruno Clerckx: **Beyond Diagonal Reconfigurable Intelligent Surfaces with Mutual Coupling: Modeling and Optimization.** CoRR abs/2310.02708 (2023)

[i150] Jiancheng An, Chau Yuen, Marco Di Renzo, Mérouane Debbah, H. Vincent Poor, Lajos Hanzo: **Stacked Intelligent Metasurface Performs a 2D DFT in the Wave Domain for DOA Estimation.** CoRR abs/2310.09861 (2023)

[i149] Guillermo Encinas-Lago, Antonio Albanese, Vincenzo Sciancalepore, Marco Di Renzo, Xavier Costa-Pérez: **Unlocking Metasurface Practicality for B5G Networks: AI-assisted RIS Planning.** CoRR abs/2310.10330 (2023)

[i148] Jian Sang, Jifeng Lan, Mingyong Zhou, Boning Gao, Wankai Tang, Xiao Li, Michail Matthaiou, Shi Jin, Marco Di Renzo: **Measurement-Based Small-Scale Channel Model for Sub-6 GHz RIS-Assisted Communications.** CoRR abs/2310.13266 (2023)

[i147] Andrea Abrardo, Alberto Toccafondi, Marco Di Renzo: **Design of Reconfigurable Intelligent Surfaces by Using S-Parameter Multiport Network Theory - Optimization and Full-Wave Validation.** CoRR abs/2311.06648 (2023)

[i146] Marco Di Renzo, Marco Donald Migliore: **Electromagnetic Signal and Information Theory - On Electromagnetically Consistent Communication Models for the Transmission and Processing of Information.** CoRR abs/2311.06661 (2023)

[i145] Jiancheng An, Chau Yuen, Chao Xu, Hongbin Li, Derrick Wing Kwan Ng, Marco Di Renzo, Mérouane Debbah, Lajos Hanzo: **Stacked Intelligent Metasurface-Aided MIMO Transceiver Design.** CoRR abs/2311.09814 (2023)

[i144] Matteo Nerini, Shanpu Shen, Hongyu Li, Marco Di Renzo, Bruno Clerckx: **A Universal Framework for Multiport Network Analysis of Reconfigurable Intelligent Surfaces.** CoRR abs/2311.10561 (2023)

[i143] Placido Mursia, Taghrid Mazloum, Frederic Munoz, Vincenzo Sciancalepore, Gabriele Gradoni, Raffaele D'Errico, Marco Di Renzo, Xavier Costa-Pérez, Antonio Clemente, Geoffroy Lerosey: **Empirical Validation of the Impedance-Based RIS Channel Model in an Indoor Scattering Environment.** CoRR abs/2311.12628 (2023)

[i142] Guillermo Encinas-Lago, Marco Rossanese, Vincenzo Sciancalepore, Marco Di Renzo, Xavier Costa-Pérez: **RIShield: Enabling Electromagnetic Blackout in Radiation-Sensitive Environments.** CoRR abs/2312.13203 (2023)

[i141] Deyou Zhang, Sicong Ye, Ming Xiao, Kezhi Wang, Marco Di Renzo, Mikael Skoglund: **Fluid Antenna Array Enhanced Over-the-Air Computation.** CoRR abs/2312.15244 (2023)

[i140] Qingqing Wu, Beixiong Zheng, Changsheng You, Lipeng Zhu, Kaiming Shen, Xiaodan Shao, Weidong Mei, Boya Di, Hongliang Zhang, Ertugrul Basar, Lingyang Song, Marco Di Renzo, Zhi-Quan Luo, Rui Zhang:

Intelligent Surfaces Empowered Wireless Network: Recent Advances and The Road to 6G. CoRR abs/2312.16918 (2023)

2022

[j269] Cunhua Pan, Ying-Chang Liang, Marco Di Renzo, A. Lee Swindlehurst, Vincenzo Sciancalepore:
Ieee Access Special Section Editorial: Reconfigurable Intelligent Surface Aided Communications for 6G and Beyond. IEEE Access 10: 19443-19446 (2022)

[j268] Hongliang Zhang, Shuhao Zeng, Boya Di, Yunhua Tan, Marco Di Renzo, Mérouane Debbah, Zhu Han, H. Vincent Poor, Lingyang Song:
Intelligent Omni-Surfaces for Full-Dimensional Wireless Communications: Principles, Technology, and Implementation. IEEE Commun. Mag. 60(2): 39-45 (2022)

[j267] Giovanni Geraci, Adrian García-Rodríguez, Mohammad Mahdi Azari, Angel Lozano, Marco Mezzavilla, Symeon Chatzinotas, Yun Chen, Sundeep Rangan, Marco Di Renzo:
What Will the Future of UAV Cellular Communications Be? A Flight From 5G to 6G. IEEE Commun. Surv. Tutorials 24(3): 1304-1335 (2022)

[j266] Marco Di Renzo:
Reviewers and Editors Appreciation 2021. IEEE Commun. Lett. 26(2): 224 (2022)

[j265] Linglong Dai, Chan-Byoung Chae, Shi Jin, Marco Di Renzo, Rui Zhang:
Editorial. Intell. Converged Networks 3(1): i-iii (2022)

[j264] Hongliang Zhang, Zehui Xiong, Marco Di Renzo:
Guest Editorial: Intelligent metasurfaces for smart connectivity. IET Commun. 16(13): 1455-1457 (2022)

[j263] Yang Wang, Zhen Gao, Jun Zhang, Xianbin Cao, Dezhi Zheng, Yue Gao, Derrick Wing Kwan Ng, Marco Di Renzo:
Trajectory Design for UAV-Based Internet of Things Data Collection: A Deep Reinforcement Learning Approach. IEEE Internet Things J. 9(5): 3899-3912 (2022)

[j262] Alessio Zappone, Marco Di Renzo, Robert Kuku Fotock:
Surface-Based Techniques for IoT Networks: Opportunities and Challenges. IEEE Internet Things Mag. 5(4): 72-77 (2022)

[j261] Zhengyu Zhu, Cunhua Pan, Qingqing Wu, Marco Di Renzo, A. Lee Swindlehurst, Yajun Zhao:
Special issue on reconfigurable intelligent surface for B5G & 6G. J. Commun. Networks 24(5): 513-517 (2022)

[j260] Xiaonan Liu, Yansha Deng, Chong Han, Marco Di Renzo:
Learning-Based Prediction, Rendering and Transmission for Interactive Virtual Reality in RIS-Assisted Terahertz Networks. IEEE J. Sel. Areas Commun. 40(2): 710-724 (2022)

[j259] Li Qiao, Jun Zhang, Zhen Gao, Dezhi Zheng, Md. Jahangir Hossain, Yue Gao, Derrick Wing Kwan Ng, Marco Di Renzo:
Joint Activity and Blind Information Detection for UAV-Assisted Massive IoT Access. IEEE J. Sel. Areas Commun. 40(5): 1489-1508 (2022)

[j258] Haobo Zhang, Hongliang Zhang, Boya Di, Marco Di Renzo, Zhu Han, H. Vincent Poor, Lingyang Song:

'20
'10
'00

Holographic Integrated Sensing and Communication. IEEE J. Sel. Areas Commun. 40(7): 2114-2130 (2022)

[j257] Ping Yang, Octavia A. Dobre, Ming Xiao, Marco Di Renzo, Jun Li, Tony Q. S. Quek, Zhu Han:
Editorial: Introduction to the Issue on Distributed Machine Learning for Wireless Communication. IEEE J. Sel. Top. Signal Process. 16(3): 320-325 (2022)

[j256] Liangxin Qian, Ping Yang, Ming Xiao, Octavia A. Dobre, Marco Di Renzo, Jun Li, Zhu Han, Qin Yi, Jiarong Zhao:
Distributed Learning for Wireless Communications: Methods, Applications and Challenges. IEEE J. Sel. Top. Signal Process. 16(3): 326-342 (2022)

[j255] Cunhua Pan, Rui Zhang, Marco Di Renzo, A. Lee Swindlehurst, Ying-Jun Angela Zhang:
Editorial Introduction to the Issue on Advanced Signal Processing for Reconfigurable Intelligent Surface-Aided 6G Networks. IEEE J. Sel. Top. Signal Process. 16(5): 880-882 (2022)

[j254] Cunhua Pan, Gui Zhou, Kangda Zhi, Sheng Hong, Tuo Wu, Yijin Pan, Hong Ren, Marco Di Renzo, A. Lee Swindlehurst, Rui Zhang, Yingjun Angela Zhang:
An Overview of Signal Processing Techniques for RIS/IRS-Aided Wireless Systems. IEEE J. Sel. Top. Signal Process. 16(5): 883-917 (2022)

[j253] Ziwei Wan, Zhen Gao, Marco Di Renzo, Lajos Hanzo:
The Road to Industry 4.0 and Beyond: A Communications-, Information-, and Operation Technology Collaboration Perspective. IEEE Netw. 36(6): 157-164 (2022)

[j252] Imène Trigui, Wessam Ajib, Wei-Ping Zhu, Marco Di Renzo:
Performance Evaluation and Diversity Analysis of RIS-Assisted Communications Over Generalized Fading Channels in the Presence of Phase Noise. IEEE Open J. Commun. Soc. 3: 593-607 (2022)

[j251] Marco Di Renzo, Sergei A. Tretyakov:
Reconfigurable Intelligent Surfaces [Scanning the Issue]. Proc. IEEE 110(9): 1159-1163 (2022)

[j250] Marco Di Renzo, Fadil Habibi Danufane, Sergei A. Tretyakov:
Communication Models for Reconfigurable Intelligent Surfaces: From Surface Electromagnetics to Wireless Networks Optimization. Proc. IEEE 110(9): 1164-1209 (2022)

[j249] Alessio Zappone, Marco Di Renzo:
Energy Efficiency Optimization of Reconfigurable Intelligent Surfaces With Electromagnetic Field Exposure Constraints. IEEE Signal Process. Lett. 29: 1447-1451 (2022)

[j248] Yan Zhang, Jiayi Zhang, Marco Di Renzo, Huahua Xiao, Bo Ai:
Reconfigurable Intelligent Surfaces With Outdated Channel State Information: Centralized vs. Distributed Deployments. IEEE Trans. Commun. 70(4): 2742-2756 (2022)

[j247] Wankai Tang, Xiangyu Chen, Ming Zheng Chen, Jun Yan Dai, Yu Han, Marco Di Renzo, Shi Jin, Qiang Cheng, Tie Jun Cui:
Path Loss Modeling and Measurements for Reconfigurable Intelligent Surfaces in the Millimeter-Wave Frequency Band. IEEE Trans. Commun. 70(9): 6259-6276 (2022)

'20
'10
'00

[j246] Shuhao Zeng, Hongliang Zhang, Boya Di, Yuanwei Liu, Marco Di Renzo, Zhu Han, H. Vincent Poor, Lingyang Song:
Intelligent Omni-Surfaces: Reflection-Refraction Circuit Model, Full-Dimensional Beamforming, and System Implementation. IEEE Trans. Commun. 70(11): 7711-7727 (2022)

[j245] Lina S. Mohjazi, Sami Muhaidat, Qammer H. Abbasi, Muhammad Ali Imran, Octavia A. Dobre, Marco Di Renzo:
Battery Recharging Time Models for Reconfigurable Intelligent Surfaces-Assisted Wireless Power Transfer Systems. IEEE Trans. Green Commun. Netw. 6(2): 1173-1185 (2022)

[j244] Guyue Li, Chen Sun, Wei Xu, Marco Di Renzo, Aiqun Hu:
On Maximizing the Sum Secret Key Rate for Reconfigurable Intelligent Surface-Assisted Multiuser Systems. IEEE Trans. Inf. Forensics Secur. 17: 211-225 (2022)

[j243] Gui Zhou, Cunhua Pan, Hong Ren, Kezhi Wang, Marco Di Renzo:
Fairness-Oriented Multiple RIS-Aided mmWave Transmission: Stochastic Optimization Methods. IEEE Trans. Signal Process. 70: 1402-1417 (2022)

[j242] Nemanja Stefan Perovic, Le-Nam Tran, Marco Di Renzo, Mark F. Flanagan:
On the Maximum Achievable Sum-Rate of the RIS-Aided MIMO Broadcast Channel. IEEE Trans. Signal Process. 70: 6316-6331 (2022)

[j241] Ke Jiang, Ping Yang, Yue Xiao, Zilong Liu, Yong Liang Guan, Marco Di Renzo:
Power Allocation-Aided Enhanced SM-OFDM: Closed-Form Solutions and Experimental Results. IEEE Trans. Veh. Technol. 71(2): 2146-2151 (2022)

[j240] Alexandros-Apostolos A. Boulogeorgos, Nestor D. Chatzidiamantis, Harilaos G. Sandalidis, Angeliki Alexiou, Marco Di Renzo:
Cascaded Composite Turbulence and Misalignment: Statistical Characterization and Applications to Reconfigurable Intelligent Surface-Empowered Wireless Systems. IEEE Trans. Veh. Technol. 71(4): 3821-3836 (2022)

[j239] Ruoyu Zhang, Byonghyo Shim, Weijie Yuan, Marco Di Renzo, Xiaoyu Dang, Wen Wu:
Integrated Sensing and Communication Waveform Design With Sparse Vector Coding: Low Sidelobes and Ultra Reliability. IEEE Trans. Veh. Technol. 71(4): 4489-4494 (2022)

[j238] Alexandros-Apostolos A. Boulogeorgos, Angeliki Alexiou, Marco Di Renzo:
Outage Performance Analysis of RIS-Assisted UAV Wireless Systems Under Disorientation and Misalignment. IEEE Trans. Veh. Technol. 71(10): 10712-10728 (2022)

[j237] Shuhang Zhang, Hongliang Zhang, Boya Di, Yunhua Tan, Marco Di Renzo, Zhu Han, H. Vincent Poor, Lingyang Song:
Intelligent Omni-Surfaces: Ubiquitous Wireless Transmission by Reflective-Refractive Metasurfaces. IEEE Trans. Wirel. Commun. 21(1): 219-233 (2022)

[j236] Li Qiao, Jun Zhang, Zhen Gao, Derrick Wing Kwan Ng, Marco Di Renzo, Mohamed-Slim Alouini:
Massive Access in Media Modulation Based Massive Machine-Type Communications. IEEE Trans. Wirel. Commun. 21(1): 339-356 (2022)

[j235] Shaoe Lin, Fangjiong Chen, Miaowen Wen, Yizhi Feng, Marco Di Renzo:
Reconfigurable Intelligent Surface-Aided Quadrature Reflection Modulation for Simultaneous Passive Beamforming and Information Transfer. IEEE Trans. Wirel. Commun. 21(3): 1469-1481 (2022)

[j234] Yikun Mei, Zhen Gao, Yongpeng Wu, Wei Chen, Jun Zhang, Derrick Wing Kwan Ng, Marco Di Renzo:
Compressive Sensing-Based Joint Activity and Data Detection for Grant-Free Massive IoT Access. IEEE Trans. Wirel. Commun. 21(3): 1851-1869 (2022)

[j233] Trinh Van Chien, Hien Quoc Ngo, Symeon Chatzinotas, Marco Di Renzo, Björn E. Ottersten:
Reconfigurable Intelligent Surface-Assisted Cell-Free Massive MIMO Systems Over Spatially-Correlated Channels. IEEE Trans. Wirel. Commun. 21(7): 5106-5128 (2022)

[j232] Bo Yang, Xuelin Cao, Chongwen Huang, Chau Yuen, Marco Di Renzo, Yong Liang Guan, Dusit Niyato, Lijun Qian, Mérouane Debbah:
Federated Spectrum Learning for Reconfigurable Intelligent Surfaces-Aided Wireless Edge Networks. IEEE Trans. Wirel. Commun. 21(11): 9610-9626 (2022)

[j231] Hanaa Abumarshoud, Lina S. Mohjazi, Octavia A. Dobre, Marco Di Renzo, Muhammad Ali Imran, Harald Haas:
LiFi through Reconfigurable Intelligent Surfaces: A New Frontier for 6G? IEEE Veh. Technol. Mag. 17(1): 37-46 (2022)

[j230] Cunhua Pan, Marco Di Renzo, Chau Yuen, Derrick Wing Kwan Ng, Ertugrul Basar:
Backscatter and Reconfigurable Intelligent Surface-Empowered Wireless Communications in 6G [From the Guest Editors]. IEEE Veh. Technol. Mag. 17(2): 14-15 (2022)

[j229] Roman Fara, Philippe Ratajczak, Dinh-Thuy Phan-Huy, Abdelwaheb Ourir, Marco Di Renzo, Julien de Rosny:
A Prototype of Reconfigurable Intelligent Surface with Continuous Control of the Reflection Phase. IEEE Wirel. Commun. 29(1): 70-77 (2022)

[j228] Ruiqi Liu, Qingqing Wu, Marco Di Renzo, Yifei Yuan:
A Path to Smart Radio Environments: An Industrial Viewpoint on Reconfigurable Intelligent Surfaces. IEEE Wirel. Commun. 29(1): 202-208 (2022)

[j227] Yuanwei Liu, Xidong Mu, Xiao Liu, Marco Di Renzo, Zhiguo Ding, Robert Schober:
Reconfigurable Intelligent Surface-Aided Multi-User Networks: Interplay Between NOMA and RIS. IEEE Wirel. Commun. 29(2): 169-176 (2022)

[j226] Jiguang He, Henk Wymeersch, Marco Di Renzo, Markku J. Juntti:
Learning to Estimate RIS-Aided mmWave Channels. IEEE Wirel.

Commun. Lett. 11(4): 841-845 (2022)

[j225] Abdelhamed Mohamed, Alessio Zappone, Marco Di Renzo:
Bi-Objective Optimization of Information Rate and Harvested Power in RIS-Aided SWIPT Systems. IEEE Wirel. Commun. Lett. 11(10): 2195-2199 (2022)

[j224] Guoliang Li, Shuai Wang, Kejiang Ye, Miaowen Wen, Derrick Wing Kwan Ng, Marco Di Renzo:
Multi-Point Integrated Sensing and Communication: Fusion Model and Functionality Selection. IEEE Wirel. Commun. Lett. 11(12): 2660-2664 (2022)

[c194] Nour Awarkeh, Dinh-Thuy Phan-Huy, Raphaël Visoz, Marco Di Renzo:
A Novel RIS-Aided EMF-Aware Beamforming Using Directional Spreading, Truncation and Boosting. EuCNC 2022: 7-12

[c193] Nour Awarkeh, Dinh-Thuy Phan-Huy, Marco Di Renzo:
A Novel RIS-Aided EMF Exposure Aware Approach using an Angularly Equalized Virtual Propagation Channel. EuCNC 2022: 500-505

[c192] Arzhang Shahbazi, Igor Donevski, Jimmy Jessen Nielsen, Marco Di Renzo:
Federated Reinforcement Learning UAV Trajectory Design for Fast Localization of Ground Users. EUSIPCO 2022: 663-666

[c191] Zhichao Shao, Xiaojun Yuan, Wei Zhang, Marco Di Renzo:
Joint Localization and Information Transfer for RIS Aided Full-Duplex Systems. GLOBECOM 2022: 3253-3258

[c190] Alexandros-Apostolos A. Boulogeorgos, Angeliki Alexiou, Marco Di Renzo:
Throughput analysis of RIS-assisted UAV wireless systems under disorientation and misalignment. GLOBECOM 2022: 4485-4491

[c189] Trinh Van Chien, Tu Lam Thanh, Tran Dinh Hieu, Hieu V. Nguyen, Symeon Chatzinotas, Marco Di Renzo, Björn E. Ottersten:
Controlling Smart Propagation Environments: Long-Term Versus Short-Term Phase Shift Optimization. ICASSP 2022: 5348-5352

[c188] Alexandros-Apostolos A. Boulogeorgos, Nestor D. Chatzidiamantis, Harilaos G. Sandalidis, Angeliki Alexiou, Marco Di Renzo:
Performance Analysis of Multi-Reconfigurable Intelligent Surface-Empowered THz Wireless Systems. ICC 2022: 1481-1487

[c187] Xuewen Qian, Marco Di Renzo, Vincenzo Sciancalepore, Xavier Costa-Pérez:
Joint Optimization of Reconfigurable Intelligent Surfaces and Dynamic Metasurface Antennas for Massive MIMO Communications. SAM 2022: 450-454

[c186] Antonio Albanese, Francesco Devoti, Vincenzo Sciancalepore, Marco Di Renzo, Xavier Costa-Pérez:
MARISA: A Self-configuring Metasurfaces Absorption and Reflection Solution Towards 6G. INFOCOM 2022: 250-259

[c185] Shuo Li, Ejder Bastug, Marco Di Renzo:
On the Modelling and Analysis of Edge-Serverless Computing. MeditCom 2022: 250-254

[c184] Abdelhamed Mohamed, Nemanja Stefan Perovic, Marco Di Renzo:
Intelligent Omni-Surfaces (IOSs) for the MIMO Broadcast Channel. SPAWC 2022: 1-5

[i139] Yan Zhang, Jiayi Zhang, Marco Di Renzo, Huahua Xiao, Bo Ai: **Reconfigurable Intelligent Surfaces with Outdated Channel State Information: Centralized vs. Distributed Deployments.** CoRR abs/2201.09001 (2022)

[i138] Alexandros-Apostolos A. Boulogeorgos, Angeliki Alexiou, Marco Di Renzo: **Outage performance analysis of RIS-assisted UAV wireless systems under disorientation and misalignment.** CoRR abs/2201.12056 (2022)

[i137] Alexandros-Apostolos A. Boulogeorgos, Nestor D. Chatzidiamantis, Harilaos G. Sandalidis, Angeliki Alexiou, Marco Di Renzo: **Performance Analysis of Multi-Reconfigurable Intelligent Surface-Empowered THz Wireless Systems.** CoRR abs/2202.06231 (2022)

[i136] Zhangjie Peng, Ruisong Weng, Cunhua Pan, Gui Zhou, Marco Di Renzo, A. Lee Swindlehurst: **Robust Transmission Design for RIS-assisted Secure Multiuser Communication Systems in the Presence of Hardware Impairments.** CoRR abs/2202.11860 (2022)

[i135] Yaoshen Cui, Haifan Yin, Li Tan, Marco Di Renzo: **A 3D Positioning-based Channel Estimation Method for RIS-aided mmWave Communications.** CoRR abs/2203.14636 (2022)

[i134] Ying Gao, Qingqing Wu, Guangchi Zhang, Wen Chen, Derrick Wing Kwan Ng, Marco Di Renzo: **Beamforming Optimization for Active Intelligent Reflecting Surface-Aided SWIPT.** CoRR abs/2203.16093 (2022)

[i133] Abdelhamed Mohamed, Alessio Zappone, Marco Di Renzo: **Bi-objective Optimization of Information Rate and Harvested Power in RIS-aided SWIPT Systems.** CoRR abs/2204.11229 (2022)

[i132] Ziwei Wan, Zhen Gao, Marco Di Renzo, Lajos Hanzo: **The Road to Industry 4.0 and Beyond: A Communications-, Information-, and Operation Technology Collaboration Perspective.** CoRR abs/2205.04741 (2022)

[i131] Marco Di Renzo, Abdelhamed Ahmed, Alessio Zappone, Vincenzo Galdi, Gabriele Gradoni, Massimo Moccia, Giuseppe Castaldi: **Digital Reconfigurable Intelligent Surfaces: On the Impact of Realistic Reradiation Models.** CoRR abs/2205.09799 (2022)

[i130] Bo Yang, Xuelin Cao, Chongwen Huang, Chau Yuen, Marco Di Renzo, Yong Liang Guan, Dusit Niyato, Lijun Qian, Mérouane Debbah: **Federated Spectrum Learning for Reconfigurable Intelligent Surfaces-Aided Wireless Edge Networks.** CoRR abs/2205.10791 (2022)

[i129] Shuhao Zeng, Hongliang Zhang, Boya Di, Yuanwei Liu, Marco Di Renzo, Zhu Han, H. Vincent Poor, Lingyang Song: **Intelligent Omni-Surfaces: Reflection-Refraction Circuit Model, Full-Dimensional Beamforming, and System Implementation.** CoRR abs/2206.00204 (2022)

[i128] Nour Awarkeh, Dinh-Thuy Phan-Huy, Raphaël Visoz, Marco Di Renzo: **A Novel RIS-Aided EMF-Aware Beamforming Using Directional Spreading, Truncation and Boosting.** CoRR abs/2206.07051 (2022)

[i127] Abdelhamed Mohamed, Nemanja Stefan Perovic, Marco Di Renzo: **Intelligent Omni-Surfaces (IOSs) for the MIMO Broadcast Channel.** CoRR abs/2206.13127 (2022)

[i126] Chenyu Wu, Changsheng You, Yuanwei Liu, Shuo Shi, Marco Di Renzo: **Two-Timescale Design for STAR-RIS Aided NOMA Systems.** CoRR abs/2207.00792 (2022)

[i125] Guoliang Li, Shuai Wang, Kejiang Ye, Miaowen Wen, Derrick Wing Kwan Ng, Marco Di Renzo: **Multi-Point Integrated Sensing and Communication: Fusion Model and Functionality Selection.** CoRR abs/2208.07592 (2022)

[i124] Alexandros-Apostolos A. Boulogeorgos, Edwin Yaqub, Rachana Desai, Tachporn Sanguanpuak, Nikos Katzouris, Fotis I. Lazarakis, Angeliki Alexiou, Marco Di Renzo: **Artificial Intelligence Empowered Multiple Access for Ultra Reliable and Low Latency THz Wireless Networks.** CoRR abs/2208.08039 (2022)

[i123] Jindan Xu, Chau Yuen, Chongwen Huang, Naveed Ul Hassan, George C. Alexandropoulos, Marco Di Renzo, Mérouane Debbah: **Reconfiguring Wireless Environment via Intelligent Surfaces for 6G: Reflection, Modulation, and Security.** CoRR abs/2208.10931 (2022)

[i122] Hanlin Xiu, Zhen Gao, Anwen Liao, Yikun Mei, Dezhi Zheng, Shufeng Tan, Marco Di Renzo, Lajos Hanzo: **Joint Activity Detection and Channel Estimation for Massive IoT Access Based on Millimeter-Wave/Terahertz Multi-Panel Massive MIMO.** CoRR abs/2209.04846 (2022)

[i121] Marco Di Renzo, Davide Dardari, Nicolò Decarli: **LoS MIMO-Arrays vs. LoS MIMO-Surfaces.** CoRR abs/2210.08616 (2022)

[i120] Marco Di Renzo, Vincenzo Galdi, Giuseppe Castaldi: **Modeling the Mutual Coupling of Reconfigurable Metaurfaces.** CoRR abs/2210.08619 (2022)

[i119] Wei Shi, Jindan Xu, Wei Xu, Marco Di Renzo, Chunming Zhao: **Secure Outage Analysis of RIS-Assisted Communications with Discrete Phase Control.** CoRR abs/2210.17084 (2022)

[i118] Jiancheng An, Chao Xu, Qingqing Wu, Derrick Wing Kwan Ng, Marco Di Renzo, Chau Yuen, Lajos Hanzo: **Codebook-Based Solutions for Reconfigurable Intelligent Surfaces and Their Open Challenges.** CoRR abs/2211.05976 (2022)

[i117] Alexandros-Apostolos A. Boulogeorgos, Angeliki Alexiou, Marco Di Renzo: **Throughput analysis of RIS-assisted UAV wireless systems under disorientation and misalignment.** CoRR abs/2212.05214 (2022)

[i116] Giulio Bartoli, Andrea Abrardo, Nicolò Decarli, Davide Dardari, Marco Di Renzo: **Spatial Multiplexing in Near Field MIMO Channels with Reconfigurable Intelligent Surfaces.** CoRR abs/2212.11057 (2022)

2021

[j223] Cam Ly Nguyen, Orestis Georgiou, Gabriele Gradoni, Marco Di Renzo: **Wireless Fingerprinting Localization in Smart Environments Using Reconfigurable Intelligent Surfaces.** IEEE Access 9: 135526-135541 (2021)

[j222] Ying-Chang Liang, Jie Chen, Ruizhe Long, Zhen-Qing He, Xianqi Lin, Chenlu Huang, Shilin Liu, Xuemin Sherman Shen, Marco Di Renzo: **Reconfigurable intelligent surfaces for smart wireless environments:**

channel estimation, system design and applications in 6G networks. Sci. China Inf. Sci. 64(10) (2021)

[j221] Cunhua Pan, Hong Ren, Kezhi Wang, Jonas Florentin Kolb, Maged Elkashlan, Ming Chen, Marco Di Renzo, Yang Hao, Jiangzhou Wang, A. Lee Swindlehurst, Xiaohu You, Lajos Hanzo:
Reconfigurable Intelligent Surfaces for 6G Systems: Principles, Applications, and Research Directions. IEEE Commun. Mag. 59(6): 14-20 (2021)

[j220] Xuelin Cao, Bo Yang, Chongwen Huang, Chau Yuen, Marco Di Renzo, Zhu Han, Dusit Niyato, H. Vincent Poor, Lajos Hanzo:
AI-Assisted MAC for Reconfigurable Intelligent-Surface-Aided Wireless Networks: Challenges and Opportunities. IEEE Commun. Mag. 59(6): 21-27 (2021)

[j219] Yuanwei Liu, Xiao Liu, Xidong Mu, Tianwei Hou, Jiaqi Xu, Marco Di Renzo, Naofal Al-Dhahir:
Reconfigurable Intelligent Surfaces: Principles and Opportunities. IEEE Commun. Surv. Tutorials 23(3): 1546-1577 (2021)

[j218] Riccardo Bassoli, Fabrizio Granelli, Sisay T. Arzo, Marco Di Renzo:
Toward 5G cloud radio access network: An energy and latency perspective. Trans. Emerg. Telecommun. Technol. 32(1) (2021)

[j217] Marco Di Renzo:
Reviewers and Editors Appreciation 2020. IEEE Commun. Lett. 25(2): 321 (2021)

[j216] Linglong Dai, Chan-Byoung Chae, Shi Jin, Marco Di Renzo, Rui Zhang:
Call for papers: Special issue on reconfigurable intelligent surface aided wireless communications. Intell. Converged Networks 2(1): 86-90 (2021)

[j215] Jingzhi Hu, Hongliang Zhang, Kaigui Bian, Marco Di Renzo, Zhu Han, Lingyang Song:
MetaSensing: Intelligent Metasurface Assisted RF 3D Sensing by Deep Reinforcement Learning. IEEE J. Sel. Areas Commun. 39(7): 2182-2197 (2021)

[j214] Xisuo Ma, Zhen Gao, Feifei Gao, Marco Di Renzo:
Model-Driven Deep Learning Based Channel Estimation and Feedback for Millimeter-Wave Massive Hybrid MIMO Systems. IEEE J. Sel. Areas Commun. 39(8): 2388-2406 (2021)

[j213] Xuelin Cao, Bo Yang, Chongwen Huang, Chau Yuen, Marco Di Renzo, Dusit Niyato, Zhu Han:
Reconfigurable Intelligent Surface-Assisted Aerial-Terrestrial Communications via Multi-Task Learning. IEEE J. Sel. Areas Commun. 39(10): 3035-3050 (2021)

[j212] Bo Yang, Xuelin Cao, Chongwen Huang, Yong Liang Guan, Chau Yuen, Marco Di Renzo, Dusit Niyato, Mérouane Debbah, Lajos Hanzo:
Spectrum-Learning-Aided Reconfigurable Intelligent Surfaces for "Green" 6G Networks. IEEE Netw. 35(6): 20-26 (2021)

[j211] Yassine Hmamouche, Mustapha Benjillali, Samir Saoudi, Halim Yanikomeroglu, Marco Di Renzo:
New Trends in Stochastic Geometry for Wireless Networks: A Tutorial and Survey. Proc. IEEE 109(7): 1200-1252 (2021)

'20
'10
'00

[j210] Chau Yuen, George C. Alexandropoulos, Xiaojun Yuan, Marco Di Renzo, Mérouane Debbah:
IEEE TCCN Special Section Editorial: Intelligent Surfaces for Smart Wireless Communications. IEEE Trans. Cogn. Commun. Netw. 7(2): 336-339 (2021)

[j209] Sai Li, Liang Yang, Daniel Benevides da Costa, Marco Di Renzo, Mohamed-Slim Alouini:
On the Performance of RIS-Assisted Dual-Hop Mixed RF-UWOC Systems. IEEE Trans. Cogn. Commun. Netw. 7(2): 340-353 (2021)

[j208] Yongyang Li, Ping Yang, Marco Di Renzo, Yue Xiao, Ming Xiao, Wei Xiang:
Precoded Optical Spatial Modulation for Indoor Visible Light Communications. IEEE Trans. Commun. 69(4): 2518-2531 (2021)

[j207] Imène Trigui, Sofiène Affes, Marco Di Renzo, Dushantha Nalin K. Jayakody:
Coverage Analysis and Scaling Laws in Ultra-Dense Networks. IEEE Trans. Commun. 69(6): 4158-4171 (2021)

[j206] Ziwei Wan, Zhen Gao, Feifei Gao, Marco Di Renzo, Mohamed-Slim Alouini:
Terahertz Massive MIMO With Holographic Reconfigurable Intelligent Surfaces. IEEE Trans. Commun. 69(7): 4732-4750 (2021)

[j205] Xuewen Qian, Marco Di Renzo, Andrew W. Eckford:
K-Means Clustering-Aided Non-Coherent Detection for Molecular Communications. IEEE Trans. Commun. 69(8): 5456-5470 (2021)

[j204] Fadil Habibi Danufane, Marco Di Renzo, Julien de Rosny, Sergei A. Tretyakov:
On the Path-Loss of Reconfigurable Intelligent Surfaces: An Approach Based on Green's Theorem Applied to Vector Fields. IEEE Trans. Commun. 69(8): 5573-5592 (2021)

[j203] Andrea Abrardo, Davide Dardari, Marco Di Renzo:
Intelligent Reflecting Surfaces: Sum-Rate Optimization Based on Statistical Position Information. IEEE Trans. Commun. 69(10): 7121-7136 (2021)

[j202] Roy Karasik, Osvaldo Simeone, Marco Di Renzo, Shlomo Shamai Shitz:
Adaptive Coding and Channel Shaping Through Reconfigurable Intelligent Surfaces: An Information-Theoretic Analysis. IEEE Trans. Commun. 69(11): 7320-7334 (2021)

[j201] Huimei Han, Jun Zhao, Wenchao Zhai, Zehui Xiong, Dusit Niyato, Marco Di Renzo, Quoc-Viet Pham, Weidang Lu, Kwok-Yan Lam:
Reconfigurable Intelligent Surface Aided Power Control for Physical-Layer Broadcasting. IEEE Trans. Commun. 69(11): 7821-7836 (2021)

[j200] Gui Zhou, Cunhua Pan, Hong Ren, Kezhi Wang, Maged Elkashlan, Marco Di Renzo:
Stochastic Learning-Based Robust Beamforming Design for RIS-Aided Millimeter-Wave Systems in the Presence of Random Blockages. IEEE Trans. Veh. Technol. 70(1): 1057-1061 (2021)

[j199] Zhangjie Peng, Tianshu Li, Cunhua Pan, Hong Ren, Wei Xu, Marco Di Renzo:
Analysis and Optimization for RIS-Aided Multi-Pair Communications Relying on Statistical CSI. IEEE Trans. Veh. Technol. 70(4): 3897-3901 (2021)

[j198] Bo Yang, Xuelin Cao, Chongwen Huang, Chau Yuen, Lijun Qian, Marco Di Renzo:
Intelligent Spectrum Learning for Wireless Networks With Reconfigurable Intelligent Surfaces. IEEE Trans. Veh. Technol. 70(4): 3920-3925 (2021)

[j197] Yan Zhang, Jiayi Zhang, Marco Di Renzo, Huahua Xiao, Bo Ai:
Performance Analysis of RIS-Aided Systems With Practical Phase Shift and Amplitude Response. IEEE Trans. Veh. Technol. 70(5): 4501-4511 (2021)

[j196] Alessio Zappone, Marco Di Renzo, Farshad Shams, Xuewen Qian, Mérouane Debbah:
Overhead-Aware Design of Reconfigurable Intelligent Surfaces in Smart Radio Environments. IEEE Trans. Wirel. Commun. 20(1): 126-141 (2021)

[j195] Wankai Tang, Ming Zheng Chen, Xiangyu Chen, Jun Yan Dai, Yu Han, Marco Di Renzo, Yong Zeng, Shi Jin, Qiang Cheng, Tie Jun Cui:
Wireless Communications With Reconfigurable Intelligent Surface: Path Loss Modeling and Experimental Measurement. IEEE Trans. Wirel. Commun. 20(1): 421-439 (2021)

[j194] Shaoe Lin, Beixiong Zheng, George C. Alexandropoulos, Miaowen Wen, Marco Di Renzo, Fangjiong Chen:
Reconfigurable Intelligent Surfaces With Reflection Pattern Modulation: Beamforming Design and Performance Analysis. IEEE Trans. Wirel. Commun. 20(2): 741-754 (2021)

[j193] Gang Yang, Xinyue Xu, Ying-Chang Liang, Marco Di Renzo:
Reconfigurable Intelligent Surface-Assisted Non-Orthogonal Multiple Access. IEEE Trans. Wirel. Commun. 20(5): 3137-3151 (2021)

[j192] Thang X. Vu, Symeon Chatzinotas, Van-Dinh Nguyen, Dinh Thai Hoang, Diep N. Nguyen, Marco Di Renzo, Björn E. Ottersten:
Machine Learning-Enabled Joint Antenna Selection and Precoding Design: From Offline Complexity to Online Performance. IEEE Trans. Wirel. Commun. 20(6): 3710-3722 (2021)

[j191] Nemanja Stefan Perovic, Le-Nam Tran, Marco Di Renzo, Mark F. Flanagan:
Achievable Rate Optimization for MIMO Systems With Reconfigurable Intelligent Surfaces. IEEE Trans. Wirel. Commun. 20(6): 3865-3882 (2021)

[j190] Yuanbin Chen, Ying Wang, Jiayi Zhang, Marco Di Renzo:
QoS-Driven Spectrum Sharing for Reconfigurable Intelligent Surfaces (RISs) Aided Vehicular Networks. IEEE Trans. Wirel. Commun. 20(9): 5969-5985 (2021)

[j189] Sixian Li, Bin Duo, Marco Di Renzo, Meixia Tao, Xiaojun Yuan:
Robust Secure UAV Communications With the Aid of Reconfigurable Intelligent Surfaces. IEEE Trans. Wirel. Commun. 20(10): 6402-6417 (2021)

'20
'10
'00

[j188] Yue Xiu, Jun Zhao, Wei Sun, Marco Di Renzo, Guan Gui, Zhongpei Zhang, Ning Wei:
Reconfigurable Intelligent Surfaces Aided mmWave NOMA: Joint Power Allocation, Phase Shifts, and Hybrid Beamforming Optimization. IEEE Trans. Wirel. Commun. 20(12): 8393-8409 (2021)

[j187] Qiang Li, Miaowen Wen, Marco Di Renzo:
Single-RF MIMO: From Spatial Modulation to Metasurface-Based Modulation. IEEE Wirel. Commun. 28(4): 88-95 (2021)

[j186] Chau Yuen, Chongwen Huang, Ian F. Akyildiz, Marco Di Renzo, Mérouane Debbah:
Guest Editorial: Intelligent Surfaces for 5G and Beyond. IEEE Wirel. Commun. 28(6): 70-71 (2021)

[j185] Tuan Anh Le, Trinh Van Chien, Marco Di Renzo:
Robust Probabilistic-Constrained Optimization for IRS-Aided MISO Communication Systems. IEEE Wirel. Commun. Lett. 10(1): 1-5 (2021)

[j184] Xuewen Qian, Marco Di Renzo, Jiang Liu, Abla Kammoun, Mohamed-Slim Alouini:
Beamforming Through Reconfigurable Intelligent Surfaces in Single-User MIMO Systems: SNR Distribution and Scaling Laws in the Presence of Channel Fading and Phase Noise. IEEE Wirel. Commun. Lett. 10(1): 77-81 (2021)

[j183] Peng Xu, Gaojie Chen, Zheng Yang, Marco Di Renzo:
Reconfigurable Intelligent Surfaces-Assisted Communications With Discrete Phase Shifts: How Many Quantization Levels Are Required to Achieve Full Diversity? IEEE Wirel. Commun. Lett. 10(2): 358-362 (2021)

[j182] Alessio Zappone, Marco Di Renzo, Xiaojun Xi, Mérouane Debbah:
On the Optimal Number of Reflecting Elements for Reconfigurable Intelligent Surfaces. IEEE Wirel. Commun. Lett. 10(3): 464-468 (2021)

[j181] Prathapasinghe Dharmawansa, Saman Atapattu, Marco Di Renzo:
Performance Analysis of a Two-Tile Reconfigurable Intelligent Surface Assisted 2 × 2 MIMO System. IEEE Wirel. Commun. Lett. 10(3): 493-497 (2021)

[j180] Peng Xu, Gaojie Chen, Gaofeng Pan, Marco Di Renzo:
Ergodic Secrecy Rate of RIS-Assisted Communication Systems in the Presence of Discrete Phase Shifts and Multiple Eavesdroppers. IEEE Wirel. Commun. Lett. 10(3): 629-633 (2021)

[j179] Gabriele Gradoni, Marco Di Renzo:
End-to-End Mutual Coupling Aware Communication Model for Reconfigurable Intelligent Surfaces: An Electromagnetic-Compliant Approach Based on Mutual Impedances. IEEE Wirel. Commun. Lett. 10(5): 938-942 (2021)

[j178] Xuewen Qian, Marco Di Renzo:
Mutual Coupling and Unit Cell Aware Optimization for Reconfigurable Intelligent Surfaces. IEEE Wirel. Commun. Lett. 10(6): 1183-1187 (2021)

[j177] Yue Xiu, Jun Zhao, Ertugrul Basar, Marco Di Renzo, Wei Sun, Guan Gui, Ning Wei:
Uplink Achievable Rate Maximization for Reconfigurable Intelligent

Surface Aided Millimeter Wave Systems With Resolution-Adaptive ADCs. IEEE Wirel. Commun. Lett. 10(8): 1608-1612 (2021)

[j176] Nemanja Stefan Perovic, Le-Nam Tran, Marco Di Renzo, Mark F. Flanagan:
Optimization of RIS-Aided MIMO Systems Via the Cutoff Rate. IEEE Wirel. Commun. Lett. 10(8): 1692-1696 (2021)

[j175] Muxin He, Wei Xu, Hong Shen, Guo Xie, Chunming Zhao, Marco Di Renzo:
Cooperative Multi-RIS Communications for Wideband mmWave MISO-OFDM Systems. IEEE Wirel. Commun. Lett. 10(11): 2360-2364 (2021)

[j174] Andrea Abrardo, Davide Dardari, Marco Di Renzo, Xuewen Qian:
MIMO Interference Channels Assisted by Reconfigurable Intelligent Surfaces: Mutual Coupling Aware Sum-Rate Optimization Based on a Mutual Impedance Channel Model. IEEE Wirel. Commun. Lett. 10(12): 2624-2628 (2021)

[c183] Arzhang Shahbazi, Marco Di Renzo:
Analysis of Optimal Altitude for UAV Cellular Communication in Presence of Blockage. 5GWF 2021: 47-51

[c182] Jiang Liu, Marco Di Renzo:
Data-driven and Model-driven Deep Learning Detection for RIS-aided Spatial Modulation. 5GWF 2021: 88-92

[c181] Arzhang Shahbazi, Marco Di Renzo:
Learning-based Localization of Mobile Users for Throughput Maximization in UAV Networks. 5GWF 2021: 130-134

[c180] Emilio Calvanese Strinati, George C. Alexandropoulos, Vincenzo Sciancalepore, Marco Di Renzo, Henk Wymeersch, Dinh-Thuy Phan-Huy, Maurizio Crozzoli, Raffaele D'Errico, Elisabeth de Carvalho, Petar Popovski, Paolo Di Lorenzo, Luca Bastianelli, Mathieu Belouar, Julien-Etienne Mascolo, Gabriele Gradoni, Sendy Phang, Geoffroy Lerosey, Benoît Denis:
Wireless Environment as a Service Enabled by Reconfigurable Intelligent Surfaces: The RISE-6G Perspective. EuCNC/6G Summit 2021: 562-567

[c179] Trinh Van Chien, Hien Quoc Ngo, Symeon Chatzinotas, Marco Di Renzo, Björn E. Ottersten:
RIS and Cell-Free Massive MIMO: A Marriage For Harsh Propagation Environments. GLOBECOM 2021: 1-6

[c178] Xiaonan Liu, Yansha Deng, Chong Han, Marco Di Renzo:
Learning-based Strategy for RIS-Assisted Terahertz Virtual Reality Networks. GLOBECOM 2021: 1-6

[c177] Chao Zhang, Wenqiang Yi, Kaifeng Han, Yuanwei Liu, Zhiguo Ding, Marco Di Renzo:
Simultaneously Transmitting And Reflecting RIS Aided NOMA With Randomly Deployed Users. GLOBECOM 2021: 1-6

[c176] Jiang Liu, Xuewen Qian, Marco Di Renzo:
Interference Analysis in Reconfigurable Intelligent Surface-Assisted Multiple-Input Multiple-Output Systems. ICASSP 2021: 8067-8071

'20
'10
'00

[c175] Romain Fara, Dinh-Thuy Phan-Huy, Philippe Ratajczak, Abdelwaheb Ourir, Marco Di Renzo, Julien de Rosny:
Reconfigurable Intelligent Surface-Assisted Ambient Backscatter Communications - Experimental Assessment. ICC Workshops 2021: 1-7

[c174] Shaoe Lin, Miaowen Wen, Marco Di Renzo, Fangjiong Chen:
Reconfigurable Intelligent Surface-Based Quadrature Reflection Modulation. ICC 2021: 1-6

[c173] Roy Karasik, Osvaldo Simeone, Marco Di Renzo, Shlomo Shamai:
Single-RF Multi-User Communication Through Reconfigurable Intelligent Surfaces: An Information-Theoretic Analysis. ISIT 2021: 2352-2357

[c172] Dinh-Thuy Phan-Huy, Dominique Barthel, Philippe Ratajczak, Romain Fara, Marco Di Renzo, Julien de Rosny:
Ambient Backscatter Communications in Mobile Networks: Crowd-Detectable Zero-Energy-Devices. RFID-TA 2021: 81-84

[c171] Nemanja Stefan Perovic, Le-Nam Tran, Marco Di Renzo, Mark F. Flanagan:
On the Achievable Sum-rate of the RIS-aided MIMO Broadcast Channel : Invited Paper. SPAWC 2021: 571-575

[i115] Thang X. Vu, Symeon Chatzinotas, Van-Dinh Nguyen, Dinh Thai Hoang, Diep N. Nguyen, Marco Di Renzo, Björn E. Ottersten:
Machine Learning-Enabled Joint Antenna Selection and Precoding Design: From Offline Complexity to Online Performance. CoRR abs/2101.07004 (2021)

[i114] Roy Karasik, Osvaldo Simeone, Marco Di Renzo, Shlomo Shamai:
Single-RF Multi-User Communication Through Reconfigurable Intelligent Surfaces: An Information-Theoretic Analysis. CoRR abs/2101.07556 (2021)

[i113] Wankai Tang, Xiangyu Chen, Ming Zheng Chen, Jun Yan Dai, Yu Han, Marco Di Renzo, Shi Jin, Qiang Cheng, Tie Jun Cui:
Path Loss Modeling and Measurements for Reconfigurable Intelligent Surfaces in the Millimeter-Wave Frequency Band. CoRR abs/2101.08607 (2021)

[i112] Andrea Abrardo, Davide Dardari, Marco Di Renzo, Xuewen Qian:
MIMO Interference Channels Assisted by Reconfigurable Intelligent Surfaces: Mutual Coupling Aware Sum-Rate Optimization Based on a Mutual Impedance Channel Model. CoRR abs/2102.07155 (2021)

[i111] Romain Fara, Dinh-Thuy Phan-Huy, Philippe Ratajczak, Abdelwaheb Ourir, Marco Di Renzo, Julien de Rosny:
Reconfigurable Intelligent Surface-Assisted Ambient Backscatter Communications - Experimental Assessment. CoRR abs/2103.08427 (2021)

[i110] Hanaa Abumarshoud, Lina S. Mohjazi, Octavia A. Dobre, Marco Di Renzo, Muhammad Ali Imran, Harald Haas:
LiFi Through Reconfigurable Intelligent Surfaces: A New Frontier for 6G? CoRR abs/2104.02390 (2021)

[i109] Li Qiao, Jun Zhang, Zhen Gao, Derrick Wing Kwan Ng, Marco Di Renzo, Mohamed-Slim Alouini:

Massive Access in Media Modulation Based Massive Machine-Type Communications. CoRR abs/2104.03874 (2021)

[i108] Emilio Calvanese Strinati, George C. Alexandropoulos, Vincenzo Sciancalepore, Marco Di Renzo, Henk Wymeersch, Dinh Thuy Phan Huy, Maurizio Crozzoli, Raffaele D'Errico, Elisabeth de Carvalho, Petar Popovski, Paolo Di Lorenzo, Luca Bastianelli, Mathieu Belouar, Julien-Etienne Mascolo, Gabriele Gradoni, Sendy Phang, Geoffroy Lerosey, Benoît Denis: **Wireless Environment as a Service Enabled by Reconfigurable Intelligent Surfaces: The RISE-6G Perspective.** CoRR abs/2104.06265 (2021)

[i107] Alessio Zappone, Marco Di Renzo: **Optimization of Reconfigurable Intelligent Surfaces with Electromagnetic Field Exposure Constraints.** CoRR abs/2104.06283 (2021)

[i106] Xuelin Cao, Bo Yang, Chongwen Huang, Chau Yuen, Marco Di Renzo, Dusit Niyato, Zhu Han: **Reconfigurable Intelligent Surface-Assisted Aerial-Terrestrial Communications via Multi-Task Learning.** CoRR abs/2104.06758 (2021)

[i105] Trinh Van Chien, Hien Quoc Ngo, Symeon Chatzinotas, Marco Di Renzo, Björn E. Ottersten: **Reconfigurable Intelligent Surface-Assisted Cell-Free Massive MIMO Systems Over Spatially-Correlated Channels.** CoRR abs/2104.08648 (2021)

[i104] Xuewen Qian, Marco Di Renzo, Andrew W. Eckford: **K-Means Clustering-Aided Non-Coherent Detection for Molecular Communications.** CoRR abs/2104.08929 (2021)

[i103] Xisuo Ma, Zhen Gao, Feifei Gao, Marco Di Renzo: **Model-Driven Deep Learning Based Channel Estimation and Feedback for Millimeter-Wave Massive Hybrid MIMO Systems.** CoRR abs/2104.11052 (2021)

[i102] Nemanja Stefan Perovic, Le-Nam Tran, Marco Di Renzo, Mark F. Flanagan: **On the Achievable Sum-rate of the RIS-aided MIMO Broadcast Channel.** CoRR abs/2104.12108 (2021)

[i101] Hongliang Zhang, Shuhao Zeng, Boya Di, Yunhua Tan, Marco Di Renzo, Mérouane Debbah, Lingyang Song, Zhu Han, H. Vincent Poor: **Intelligent Reflective-Transmissive Metasurfaces for Full-Dimensional Communications: Principles, Technologies, and Implementation.** CoRR abs/2104.12313 (2021)

[i100] Ruiqi Liu, Qingqing Wu, Marco Di Renzo, Yifei Yuan: **A Path to Smart Radio Environments: An Industrial Viewpoint on Reconfigurable Intelligent Surfaces.** CoRR abs/2104.14985 (2021)

[i99] Xuelin Cao, Bo Yang, Chongwen Huang, Chau Yuen, Marco Di Renzo, Zhu Han, Dusit Niyato, H. Vincent Poor, Lajos Hanzo: **AI-Assisted MAC for Reconfigurable Intelligent Surface-Aided Wireless Networks: Challenges and Opportunities.** CoRR abs/2105.00437 (2021)

[i98] Giovanni Geraci, Adrian García-Rodríguez, Mohammad Mahdi Azari, Angel Lozano, Marco Mezzavilla, Symeon Chatzinotas, Yun Chen, Sundeep Rangan, Marco Di Renzo:

'20
'10
'00

What Will the Future of UAV Cellular Communications Be? A Flight from 5G to 6G. CoRR abs/2105.04842 (2021)

- [i97] Yang Wang, Zhen Gao, Jun Zhang, Xianbin Cao, Dezhi Zheng, Yue Gao, Derrick Wing Kwan Ng, Marco Di Renzo:
Trajectory Design for UAV-Based Internet-of-Things Data Collection: A Deep Reinforcement Learning Approach. CoRR abs/2107.11015 (2021)
- [i96] Jiguang He, Henk Wymeersch, Marco Di Renzo, Markku J. Juntti:
Learning to Estimate RIS-Aided mmWave Channels. CoRR abs/2107.12631 (2021)
- [i95] Vittorio Degli-Esposti, Enrico Maria Vitucci, Marco Di Renzo, Sergei A. Tretyakov:
Reradiation and Scattering from a Reconfigurable Intelligent Surface: A General Macroscopic Model. CoRR abs/2107.12773 (2021)
- [i94] Kangda Zhi, Cunhua Pan, Hong Ren, Kezhi Wang, Maged Elkashlan, Marco Di Renzo, Robert Schober, H. Vincent Poor, Jiangzhou Wang, Lajos Hanzo:
Two-Timescale Design for Reconfigurable Intelligent Surface-Aided Massive MIMO Systems with Imperfect CSI. CoRR abs/2108.07622 (2021)
- [i93] Trinh Van Chien, Hien Quoc Ngo, Symeon Chatzinotas, Marco Di Renzo, Björn E. Ottersten:
RIS and Cell-Free Massive MIMO: A Marriage For Harsh Propagation Environments. CoRR abs/2109.05444 (2021)
- [i92] Marco Di Renzo, Fadil Habibi Danufane, Sergei A. Tretyakov:
Communication Models for Reconfigurable Intelligent Surfaces: From Surface Electromagnetics to Wireless Networks Optimization. CoRR abs/2110.00833 (2021)
- [i91] Nemanja Stefan Perovic, Le-Nam Tran, Marco Di Renzo, Mark F. Flanagan:
On the Maximum Achievable Sum-rate of the RIS-aided MIMO Broadcast Channel. CoRR abs/2110.01700 (2021)
- [i90] Trinh Van Chien, Tu Lam Thanh, Tran Dinh Hieu, Hieu V. Nguyen, Symeon Chatzinotas, Marco Di Renzo, Björn E. Ottersten:
Controlling Smart Propagation Environments: Long-Term versus Short-Term Phase Shift Optimization. CoRR abs/2110.13288 (2021)
- [i89] Bjorn Sihlbom, Marios I. Poulakis, Marco Di Renzo:
Reconfigurable Intelligent Surfaces: Performance Assessment Through a System-Level Simulator. CoRR abs/2111.10791 (2021)
- [i88] Antonio Albanese, Francesco Devoti, Vincenzo Sciancalepore, Marco Di Renzo, Xavier Costa-Pérez:
MARISA: A Self-configuring Metasurfaces Absorption and Reflection Solution Towards 6G. CoRR abs/2112.01949 (2021)
- [i87] Fadil Habibi Danufane, Marco Di Renzo:
Analysis of the Delay Distribution in Cellular Networks by Using Stochastic Geometry. CoRR abs/2112.12971 (2021)
- [i86] Li Qiao, Jun Zhang, Zhen Gao, Dezhi Zheng, Md. Jahangir Hossain, Yue Gao, Derrick Wing Kwan Ng, Marco Di Renzo:
Joint Activity and Blind Information Detection for UAV-Assisted Massive IoT Access. CoRR abs/2112.14209 (2021)

2020

'20
'10
'00

[j173] Linglong Dai, Marco Di Renzo, Chan-Byoung Chae, Lajos Hanzo, Bichai Wang, Min Wang, Xue Yang, Jingbo Tan, Shuangkaisheng Bi, Shenheng Xu, Fan Yang, Zhi Chen:
Reconfigurable Intelligent Surface-Based Wireless Communications: Antenna Design, Prototyping, and Experimental Results. IEEE Access 8: 45913-45923 (2020)

[j172] Yifan Luo, Jiawei Yang, Wei Xu, Kezhi Wang, Marco Di Renzo:
Power Consumption Optimization Using Gradient Boosting Aided Deep Q-Network in C-RANs. IEEE Access 8: 46811-46823 (2020)

[j171] Marco Di Renzo:
Reviewers and Editors Appreciation 2019. IEEE Commun. Lett. 24(2): 233 (2020)

[j170] Marco Di Renzo:
Note From the Editor. IEEE Commun. Lett. 24(4): 935 (2020)

[j169] Marco Di Renzo, Mérouane Debbah, Mohamed-Slim Alouini, Chau Yuen, Thomas L. Marzetta, Alessio Zappone:
Guest Editorial Special Issue on "Wireless Networks Empowered by Reconfigurable Intelligent Surfaces". IEEE J. Sel. Areas Commun. 38(11): 2445-2449 (2020)

[j168] Marco Di Renzo, Alessio Zappone, Mérouane Debbah, Mohamed-Slim Alouini, Chau Yuen, Julien de Rosny, Sergei A. Tretyakov:
Smart Radio Environments Empowered by Reconfigurable Intelligent Surfaces: How It Works, State of Research, and The Road Ahead. IEEE J. Sel. Areas Commun. 38(11): 2450-2525 (2020)

[j167] Marco Di Renzo, Konstantinos Ntontin, Jian Song, Fadil Habibi Danufane, Xuewen Qian, Fotis I. Lazarakis, Julien de Rosny, Dinh-Thuy Phan-Huy, Osvaldo Simeone, Rui Zhang, Mérouane Debbah, Geoffroy Lerosey, Mathias Fink, Sergei A. Tretyakov, Shlomo Shamai:
Reconfigurable Intelligent Surfaces vs. Relaying: Differences, Similarities, and Performance Comparison. IEEE Open J. Commun. Soc. 1: 798-807 (2020)

[j166] Romain Fara, Dinh Thuy Phan Huy, Abdelwaheb Ourir, Yvan Kokar, Jean-Christophe Prévotet, Maryline Hélard, Marco Di Renzo, Julien de Rosny:
Polarization-Based Reconfigurable Tags for Robust Ambient Backscatter Communications. IEEE Open J. Commun. Soc. 1: 1140-1152 (2020)

[j165] Anastasios K. Papazafeiropoulos, Pandelis Kourtessis, Marco Di Renzo, Symeon Chatzinotas, John M. Senior:
Performance Analysis of Cell-Free Massive MIMO Systems: A Stochastic Geometry Approach. IEEE Trans. Veh. Technol. 69(4): 3523-3537 (2020)

[j164] Shicong Liu, Zhen Gao, Jun Zhang, Marco Di Renzo, Mohamed-Slim Alouini:
Deep Denoising Neural Network Assisted Compressive Channel Estimation for mmWave Intelligent Reflecting Surfaces. IEEE Trans. Veh. Technol. 69(8): 9223-9228 (2020)

[j163] Liang Yang, Fanxu Meng, Jiayi Zhang, Mazen O. Hasna, Marco Di Renzo:

On the Performance of RIS-Assisted Dual-Hop UAV Communication Systems. IEEE Trans. Veh. Technol. 69(9): 10385-10390 (2020)

[j162] Liang Yang, Jinxia Yang, Wenwu Xie, Mazen O. Hasna, Theodoros A. Tsiftsis, Marco Di Renzo:
Secrecy Performance Analysis of RIS-Aided Wireless Communication Systems. IEEE Trans. Veh. Technol. 69(10): 12296-12300 (2020)

[j161] Mudasar Bacha, Marco Di Renzo, Bruno Clerckx:
Treating Interference as Noise in Cellular Networks: A Stochastic Geometry Approach. IEEE Trans. Wirel. Commun. 19(3): 1918-1932 (2020)

[j160] Qiang Li, Miaowen Wen, Marco Di Renzo, H. Vincent Poor, Shahid Mumtaz, Fangjiong Chen:
Dual-Hop Spatial Modulation With a Relay Transmitting its Own Information. IEEE Trans. Wirel. Commun. 19(7): 4449-4463 (2020)

[j159] Tu Lam Thanh, Marco Di Renzo:
On the Energy Efficiency of Heterogeneous Cellular Networks With Renewable Energy Sources - A Stochastic Geometry Framework. IEEE Trans. Wirel. Commun. 19(10): 6752-6770 (2020)

[j158] Ali Reza Heidarpour, Masoud Ardakani, Chintha Tellambura, Marco Di Renzo, Murat Uysal:
Network-Coded Cooperative Systems With Generalized User-Relay Selection. IEEE Trans. Wirel. Commun. 19(11): 7251-7264 (2020)

[j157] Haris Gacanin, Marco Di Renzo:
Wireless 2.0: Toward an Intelligent Radio Environment Empowered by Reconfigurable Meta-Surfaces and Artificial Intelligence. IEEE Veh. Technol. Mag. 15(4): 74-82 (2020)

[j156] Cheng-Xiang Wang, Marco Di Renzo, Slawomir Stanczak, Sen Wang, Erik G. Larsson:
Artificial Intelligence Enabled Wireless Networking for 5G and Beyond: Recent Advances and Future Challenges. IEEE Wirel. Commun. 27(1): 16-23 (2020)

[j155] Chongwen Huang, Sha Hu, George C. Alexandropoulos, Alessio Zappone, Chau Yuen, Rui Zhang, Marco Di Renzo, Mérouane Debbah:
Holographic MIMO Surfaces for 6G Wireless Networks: Opportunities, Challenges, and Trends. IEEE Wirel. Commun. 27(5): 118-125 (2020)

[j154] Shanshan Wang, Marco Di Renzo:
On the Mean Interference-to-Signal Ratio in Spatially Correlated Cellular Networks. IEEE Wirel. Commun. Lett. 9(3): 358-362 (2020)

[j153] Sixian Li, Bin Duo, Xiaojun Yuan, Ying-Chang Liang, Marco Di Renzo:
Reconfigurable Intelligent Surface Assisted UAV Communication: Joint Trajectory Design and Passive Beamforming. IEEE Wirel. Commun. Lett. 9(5): 716-720 (2020)

[j152] Shaoqing Zhou, Wei Xu, Kezhi Wang, Marco Di Renzo, Mohamed-Slim Alouini:
Spectral and Energy Efficiency of IRS-Assisted MISO Communication With Hardware Impairments. IEEE Wirel. Commun. Lett. 9(9): 1366-1369 (2020)

[j151] Gui Zhou, Cunhua Pan, Hong Ren, Kezhi Wang, Marco Di Renzo, Arumugam Nallanathan:
Robust Beamforming Design for Intelligent Reflecting Surface Aided MISO Communication Systems. IEEE Wirel. Commun. Lett. 9(10): 1658-1662 (2020)

[j150] Jian Song, Marco Di Renzo, Alessio Zappone, Vincenzo Sciancalepore, Xavier Pérez Costa:
System-Level Optimization in Poisson Cellular Networks: An Approach Based on the Generalized Benders Decomposition. IEEE Wirel. Commun. Lett. 9(10): 1773-1777 (2020)

[c170] Anastasios K. Papazafeiropoulos, Pandelis Kourtessis, Marco Di Renzo, Symeon Chatzinotas, John M. Senior:
Coverage Probability of Cell-Free Massive MIMO Systems. BlackSeaCom 2020: 1-6

[c169] Manijeh Bashar, Kanapathippillai Cumanan, Alister G. Burr, Pei Xiao, Marco Di Renzo:
On the Performance of Reconfigurable Intelligent Surface-Aided Cell-Free Massive MIMO Uplink. GLOBECOM 2020: 1-6

[c168] Shaoe Lin, Beixiong Zheng, George C. Alexandropoulos, Miaowen Wen, Marco Di Renzo, Fangjiong Chen:
Joint Passive Beamforming and Information Transfer for RIS-Empowered Wireless Communications. GLOBECOM 2020: 1-6

[c167] Huimei Han, Jun Zhao, Dusit Niyato, Marco Di Renzo, Quoc-Viet Pham:
Intelligent Reflecting Surface Aided Network: Power Control for Physical-Layer Broadcasting. ICC 2020: 1-7

[c166] Nemanja Stefan Perovic, Marco Di Renzo, Mark F. Flanagan:
Channel Capacity Optimization Using Reconfigurable Intelligent Surfaces in Indoor mmWave Environments. ICC 2020: 1-7

[c165] Roy Karasik, Osvaldo Simeone, Marco Di Renzo, Shlomo Shamai Shitz:
Beyond Max-SNR: Joint Encoding for Reconfigurable Intelligent Surfaces. ISIT 2020: 2965-2970

[c164] Romain Fara, Nada Bel-Haj-Maati, Dinh-Thuy Phan-Huy, Nadine Malhouroux, Marco Di Renzo:
First experimental evaluation of ambient backscatter communications with massive MIMO reader. PIMRC 2020: 1-6

[c163] Romain Fara, Dinh-Thuy Phan-Huy, Abdelwaheb Ourir, Marco Di Renzo, Julien de Rosny:
Robust Ambient Backscatter Communications with Polarization Reconfigurable Tags. PIMRC 2020: 1-7

[c162] Konstantinos Ntontin, Marco Di Renzo, Fotis I. Lazarakis:
On the Rate and Energy Efficiency Comparison of Reconfigurable Intelligent Surfaces with Relays. SPAWC 2020: 1-5

[c161] Marco Di Renzo, Fadil Habibi Danufane, Xiaojun Xi, Julien de Rosny, Sergei A. Tretyakov:
Analytical Modeling of the Path-Loss for Reconfigurable Intelligent Surfaces - Anomalous Mirror or Scatterer ? SPAWC 2020: 1-5

[c160] Romain Fara, Dinh-Thuy Phan-Huy, Marco Di Renzo:
Ambient backscatters-friendly 5G networks: creating hot spots for

tags and good spots for readers. WCNC 2020: 1-7

[c159] Imène Trigui, Sofiène Affes, Marco Di Renzo, Dushantha Nalin K. Jayakody:
SINR Coverage Analysis of Dense HetNets Over Fox's H-Fading Channels. WCNC 2020: 1-6

[i85] Cheng-Xiang Wang, Marco Di Renzo, Slawomir Stanczak, Sen Wang, Erik G. Larsson:
Artificial Intelligence Enabled Wireless Networking for 5G and Beyond: Recent Advances and Future Challenges. CoRR abs/2001.08159 (2020)

[i84] Marco Di Renzo, Fadil Habibi Danufane, Xiaojun Xi, Julien de Rosny, Sergei A. Tretyakov:
Analytical Modeling of the Path-Loss for Reconfigurable Intelligent Surfaces - Anomalous Mirror or Scatterer ? CoRR abs/2001.10862 (2020)

[i83] Romain Fara, Dinh-Thuy Phan-Huy, Marco Di Renzo:
Ambient backscatters-friendly 5G networks: creating hot spots for tags and good spots for readers. CoRR abs/2002.00884 (2020)

[i82] Haris Gacanin, Marco Di Renzo:
Wireless 2.0: Towards an Intelligent Radio Environment Empowered by Reconfigurable Meta-Surfaces and Artificial Intelligence. CoRR abs/2002.11040 (2020)

[i81] Alessio Zappone, Marco Di Renzo, Farshad Shams, Xuewen Qian, Mérouane Debbah:
Overhead-Aware Design of Reconfigurable Intelligent Surfaces in Smart Radio Environments. CoRR abs/2003.02538 (2020)

[i80] Marco Di Renzo, Alessio Zappone, Mérouane Debbah, Mohamed-Slim Alouini, Chau Yuen, Julien de Rosny, Sergei A. Tretyakov:
Smart Radio Environments Empowered by Reconfigurable Intelligent Surfaces: How it Works, State of Research, and Road Ahead. CoRR abs/2004.09352 (2020)

[i79] Shaoqing Zhou, Wei Xu, Kezhi Wang, Marco Di Renzo, Mohamed-Slim Alouini:
Spectral and Energy Efficiency of IRS-Assisted MISO Communication with Hardware Impairments. CoRR abs/2004.09854 (2020)

[i78] Xuewen Qian, Marco Di Renzo, Jiang Liu, Abla Kammoun, Mohamed-Slim Alouini:
Beamforming Through Reconfigurable Intelligent Surfaces in Single-User MIMO Systems: SNR Distribution and Scaling Laws in the Presence of Channel Fading and Phase Noise. CoRR abs/2005.07472 (2020)

[i77] Shicong Liu, Zhen Gao, Jun Zhang, Marco Di Renzo, Mohamed-Slim Alouini:
Deep Denoising Neural Network Assisted Compressive Channel Estimation for mmWave Intelligent Reflecting Surfaces. CoRR abs/2006.02201 (2020)

[i76] Lina S. Mohjazi, Sami Muhaidat, Qammer H. Abbasi, Muhammad Ali Imran, Octavia A. Dobre, Marco Di Renzo:
Battery Recharging Time Models for Reconfigurable Intelligent

Surface-Assisted Wireless Power Transfer Systems. CoRR abs/2007.05227 (2020)

[i75] Yue Xiu, Jun Zhao, Wei Sun, Marco Di Renzo, Guan Gui, Zhongpei Zhang, Ning Wei:
Reconfigurable Intelligent Surfaces Aided mmWave NOMA: Joint Power Allocation,Phase Shifts, and Hybrid Beamforming Optimization. CoRR abs/2007.05873 (2020)

[i74] Alessio Zappone, Marco Di Renzo, Xiaojun Xi, Mérouane Debbah:
On The Optimal Number of Reflecting Elements for Reconfigurable Intelligent Surfaces. CoRR abs/2007.07665 (2020)

[i73] Fadil Habibi Danufane, Marco Di Renzo, Julien de Rosny, Sergei A. Tretyakov:
On the Path-Loss of Reconfigurable Intelligent Surfaces: An Approach Based on Green's Theorem Applied to Vector Fields. CoRR abs/2007.13158 (2020)

[i72] Shaoe Lin, Beixiong Zheng, George C. Alexandropoulos, Miaowen Wen, Marco Di Renzo, Fangjiong Chen:
Reconfigurable Intelligent Surfaces with Reflection Pattern Modulation: Beamforming Design and Performance Analysis. CoRR abs/2008.02555 (2020)

[i71] Peng Xu, Gaojie Chen, Zheng Yang, Marco Di Renzo:
Reconfigurable Intelligent Surfaces Assisted Communications with Discrete Phase Shifts: How Many Quantization Levels are Required to Achieve Full Diversity? CoRR abs/2008.05317 (2020)

[i70] Sixian Li, Bin Duo, Marco Di Renzo, Meixia Tao, Xiaojun Yuan:
Robust Secure UAV Communications with the Aid of Reconfigurable Intelligent Surfaces. CoRR abs/2008.09404 (2020)

[i69] Nemanja Stefan Perovic, Le-Nam Tran, Marco Di Renzo, Mark F. Flanagan:
Achievable Rate Optimization for MIMO Systems with Reconfigurable Intelligent Surfaces. CoRR abs/2008.09563 (2020)

[i68] Peng Xu, Gaojie Chen, Gaofeng Pan, Marco Di Renzo:
Ergodic Secrecy Capacity of RIS-Assisted Communication Systems in the Presence of Discrete Phase Shifts and Multiple Eavesdroppers. CoRR abs/2009.00517 (2020)

[i67] Qiang Li, Miaowen Wen, Marco Di Renzo:
Single-RF MIMO: From Spatial Modulation to Metasurface-Based Modulation. CoRR abs/2009.00789 (2020)

[i66] Gabriele Gradoni, Marco Di Renzo:
End-to-End Mutual-Coupling-Aware Communication Model for Reconfigurable Intelligent Surfaces: An Electromagnetic-Compliant Approach Based on Mutual Impedances. CoRR abs/2009.02694 (2020)

[i65] Ziwei Wan, Zhen Gao, Marco Di Renzo, Mohamed-Slim Alouini:
Terahertz Massive MIMO with Holographic Reconfigurable Intelligent Surfaces. CoRR abs/2009.10963 (2020)

[i64] Prathapasinghe Dharmawansa, Saman Atapattu, Marco Di Renzo:
Performance Analysis of a Two-Tile Reconfigurable Intelligent Surface Assisted 2×2 MIMO System. CoRR abs/2010.04294 (2020)

- [i63] Anastasios K. Papazafeiropoulos, Pandelis Kourtessis, Marco Di Renzo, Symeon Chatzinotas, John M. Senior: **Performance Analysis of Cell-Free Massive MIMO Systems: A Stochastic Geometry Approach.** CoRR abs/2010.13223 (2020)
- [i62] Shuhang Zhang, Hongliang Zhang, Boya Di, Yunhua Tan, Marco Di Renzo, Zhu Han, H. Vincent Poor, Lingyang Song: **Intelligent Omni-Surface: Ubiquitous Wireless Transmission by Reflective-Transmissive Metasurface.** CoRR abs/2011.00765 (2020)
- [i61] Yikun Mei, Zhen Gao, Yongpeng Wu, Wei Chen, Derrick Wing Kwan Ng, Marco Di Renzo: **Compressive Sensing Based Joint Activity and Data Detection for Grant-Free Massive Access.** CoRR abs/2011.07928 (2020)
- [i60] Sai Li, Liang Yang, Daniel Benevides da Costa, Marco Di Renzo, Mohamed-Slim Alouini: **On the Performance of RIS-Assisted Dual-Hop Mixed RF-UWOC Systems.** CoRR abs/2011.09060 (2020)
- [i59] Imene Trigui, Wessam Ajib, Wei-Ping Zhu, Marco Di Renzo: **Performance Evaluation and Diversity Analysis of RIS-Assisted Communications Over Generalized Fading Channels in the Presence of Phase Noise.** CoRR abs/2011.12260 (2020)
- [i58] Jingzhi Hu, Hongliang Zhang, Kaigui Bian, Marco Di Renzo, Zhu Han, Lingyang Song: **MetaSensing: Intelligent Metasurface Assisted RF 3D Sensing by Deep Reinforcement Learning.** CoRR abs/2011.12515 (2020)
- [i57] Yuanwei Liu, Xidong Mu, Xiao Liu, Marco Di Renzo, Zhiguo Ding, Robert Schober: **Reconfigurable Intelligent Surface (RIS) Aided Multi-User Networks: Interplay Between NOMA and RIS.** CoRR abs/2011.13336 (2020)
- [i56] Xuewen Qian, Marco Di Renzo: **Mutual Coupling and Unit Cell Aware Optimization for Reconfigurable Intelligent Surfaces.** CoRR abs/2011.14373 (2020)
- [i55] Roy Karasik, Osvaldo Simeone, Marco Di Renzo, Shlomo Shamai: **Adaptive Coding and Channel Shaping Through Reconfigurable Intelligent Surfaces: An Information-Theoretic Analysis.** CoRR abs/2012.00407 (2020)
- [i54] Nemanja Stefan Perovic, Le-Nam Tran, Marco Di Renzo, Mark F. Flanagan: **Optimization of RIS-aided MIMO Systems via the Cutoff Rate.** CoRR abs/2012.05131 (2020)
- [i53] Gui Zhou, Cunhua Pan, Hong Ren, Kezhi Wang, Marco Di Renzo: **Fairness-Oriented Multiple RISs-Aided MmWave Transmission: Stochastic Optimization Approaches.** CoRR abs/2012.06103 (2020)
- [i52] Andrea Abrardo, Davide Dardari, Marco Di Renzo: **Intelligent Reflecting Surfaces: Sum-Rate Optimization Based on Statistical CSI.** CoRR abs/2012.10679 (2020)

[–] **2010 – 2019**

2019

'20
'10
'00

[j149] Dinh Thuy Phan Huy, Yvan Kokar, Kammel Rachedi, Patrice Pajusco, Ali Mokh, Theoni Magounaki, R. Masood, Cyril Buey, Philippe Ratajczak, Nadine Malhouroux-Gaffet, Jean-Marc Conrat, Jean-Christophe Prévotet, Abdelwaheb Ourir, Julien de Rosny, Matthieu Crussière, Maryline Hélard, Azeddine Gati, Thierry Sarrebourse, Marco Di Renzo:
Single-Carrier Spatial Modulation for the Internet of Things: Design and Performance Evaluation by Using Real Compact and Reconfigurable Antennas. IEEE Access 7: 18978-18993 (2019)

[j148] Malcolm Egan, Trung Quang Duong, Marco Di Renzo:
Biological Circuits for Detection in MoSK-Based Molecular Communication. IEEE Access 7: 21094-21102 (2019)

[j147] Xuewen Qian, Marco Di Renzo, Andrew W. Eckford:
Molecular Communications: Model-Based and Data-Driven Receiver Design and Optimization. IEEE Access 7: 53555-53565 (2019)

[j146] Ertugrul Basar, Marco Di Renzo, Julien de Rosny, Mérouane Debbah, Mohamed-Slim Alouini, Rui Zhang:
Wireless Communications Through Reconfigurable Intelligent Surfaces. IEEE Access 7: 116753-116773 (2019)

[j145] Marco Di Renzo, Jian Song:
Reflection probability in wireless networks with metasurface-coated environmental objects: an approach based on random spatial processes. EURASIP J. Wirel. Commun. Netw. 2019: 99 (2019)

[j144] Francisco Javier Martin-Vega, Xiaojun Xi, Marco Di Renzo, Mari Carmen Aguayo Torres, Gerardo Gómez:
On muting mobile terminals for uplink interference mitigation in HetNets - system-level analysis via stochastic geometry. EURASIP J. Wirel. Commun. Netw. 2019: 100 (2019)

[j143] Marco Di Renzo, Mérouane Debbah, Dinh Thuy Phan Huy, Alessio Zappone, Mohamed-Slim Alouini, Chau Yuen, Vincenzo Sciancalepore, George C. Alexandropoulos, Jakob Hoydis, Haris Gacanin, Julien de Rosny, Ahcène Bounceur, Geoffroy Lerosey, Mathias Fink:
Smart radio environments empowered by reconfigurable AI meta-surfaces: an idea whose time has come. EURASIP J. Wirel. Commun. Netw. 2019: 129 (2019)

[j142] Dung Nguyen Viet, Marco Di Renzo, Vedaprabhu Basavarajappa, Beatriz Bedia Exposito, José Basterrechea, Dinh Thuy Phan Huy:
Spatial modulation based on reconfigurable antennas: performance evaluation by using the prototype of a reconfigurable antenna. EURASIP J. Wirel. Commun. Netw. 2019: 149 (2019)

[j141] Shanshan Wang, Marco Di Renzo:
On the meta distribution in spatially correlated non-Poisson cellular networks. EURASIP J. Wirel. Commun. Netw. 2019: 161 (2019)

[j140] Alexis I. Aravanis, Tu Lam Thanh, Olga Muñoz, Antonio Pascual-Iserte, Marco Di Renzo:
A tractable closed form approximation of the ergodic rate in Poisson cellular networks. EURASIP J. Wirel. Commun. Netw. 2019: 187 (2019)

[j139] Octavia A. Dobre, Marco Di Renzo:
EiC Farewell and Welcome to New EiC. IEEE Commun. Lett. 23(7): 1113-1114 (2019)

'20
'10
'00

[j138] Alessandro Guidotti, Barry G. Evans, Marco Di Renzo:
Integrated satellite-terrestrial networks in future wireless systems. Int. J. Satell. Commun. Netw. 37(2): 73-75 (2019)

[j137] Rakshith Rajashekar, Marco Di Renzo, Lie-Liang Yang, K. V. S. Hari, Lajos Hanzo:
A Finite Input Alphabet Perspective on the Rate-Energy Tradeoff in SWIPT Over Parallel Gaussian Channels. IEEE J. Sel. Areas Commun. 37(1): 48-60 (2019)

[j136] Kyeong Jin Kim, Miaowen Wen, Marco Di Renzo, Theodoros A. Tsiftsis, Kwang-Cheng Chen, Naofal Al-Dhahir:
Guest Editorial Spatial Modulation in Emerging Wireless Systems. IEEE J. Sel. Areas Commun. 37(9): 1945-1948 (2019)

[j135] Miaowen Wen, Beixiong Zheng, Kyeong Jin Kim, Marco Di Renzo, Theodoros A. Tsiftsis, Kwang-Cheng Chen, Naofal Al-Dhahir:
A Survey on Spatial Modulation in Emerging Wireless Systems: Research Progresses and Applications. IEEE J. Sel. Areas Commun. 37(9): 1949-1972 (2019)

[j134] Ertugrul Basar, Miaowen Wen, Marco Di Renzo, Raed Mesleh, Lie-Liang Yang, Octavia A. Dobre, A. Chockalingam:
Editorial: Introduction to the Issue Index Modulation for Future Wireless Networks: A Signal Processing Perspective. IEEE J. Sel. Top. Signal Process. 13(6): 1219-1222 (2019)

[j133] Saman Atapattu, Prathapasinghe Dharmawansa, Marco Di Renzo, Chintha Tellambura, Jamie S. Evans:
Multi-User Relay Selection for Full-Duplex Radio. IEEE Trans. Commun. 67(2): 955-972 (2019)

[j132] Kyeong Jin Kim, Hongwu Liu, Miaowen Wen, Marco Di Renzo, H. Vincent Poor:
Outage Probability Analysis of Spectrum Sharing Systems With Distributed Cyclic Delay Diversity. IEEE Trans. Commun. 67(6): 4435-4449 (2019)

[j131] Ali Reza Heidarpour, Masoud Ardakani, Chintha Tellambura, Marco Di Renzo:
Relay Selection in Network-Coded Cooperative MIMO Systems. IEEE Trans. Commun. 67(8): 5346-5361 (2019)

[j130] Alessio Zappone, Marco Di Renzo, Mérouane Debbah:
Wireless Networks Design in the Era of Deep Learning: Model-Based, AI-Based, or Both? IEEE Trans. Commun. 67(10): 7331-7376 (2019)

[j129] Anastasios K. Papazafeiropoulos, Pandelis Kourtessis, Marco Di Renzo, John M. Senior, Symeon Chatzinotas:
SDN-Enabled MIMO Heterogeneous Cooperative Networks With Flexible Cell Association. IEEE Trans. Wirel. Commun. 18(4): 2037-2050 (2019)

[j128] Kyeong Jin Kim, Marco Di Renzo, Hongwu Liu, Theodoros A. Tsiftsis, Philip V. Orlik, H. Vincent Poor:
Distributed Cyclic Delay Diversity Systems With Spatially Distributed Interferers. IEEE Trans. Wirel. Commun. 18(4): 2066-2079 (2019)

[j127] Alessio Zappone, Marco Di Renzo, Mérouane Debbah, Tu Lam Thanh, Xuewen Qian:

Model-Aided Wireless Artificial Intelligence: Embedding Expert Knowledge in Deep Neural Networks for Wireless System Optimization. IEEE Veh. Technol. Mag. 14(3): 60-69 (2019)

[j126] Marco Di Renzo, Tu Lam Thanh, Alessio Zappone, Mérouane Debbah:
A Tractable Closed-Form Expression of the Coverage Probability in Poisson Cellular Networks. IEEE Wirel. Commun. Lett. 8(1): 249-252 (2019)

[j125] Marco Di Renzo, Alessio Zappone, Tu Thanh Lam, Mérouane Debbah:
Spectral-Energy Efficiency Pareto Front in Cellular Networks: A Stochastic Geometry Framework. IEEE Wirel. Commun. Lett. 8(2): 424-427 (2019)

[j124] Ahsan Ali, Rein Vesilo, Marco Di Renzo:
Stochastic Geometry Analysis of Multi-User Asynchronous OFDM Wireless Networks. IEEE Wirel. Commun. Lett. 8(3): 845-848 (2019)

[c158] Marco Di Renzo:
Keynote Talk #2: 6G Wireless: Wireless Networks Empowered by Reconfigurable Intelligent Surfaces. APCC 2019: xxxiv-xxxv

[c157] Yvan Kokar, Dinh Thuy Phan Huy, Romain Fara, Kammel Rachedi, Abdelwaheb Ourir, Julien de Rosny, Marco Di Renzo, Jean-Christophe Prévotet, Maryline Hélard:
First Experimental Ambient Backscatter Communication Using a Compact Reconfigurable Tag Antenna. GLOBECOM Workshops 2019: 1-6

[c156] Ali Reza Heidarpour, Masoud Ardakani, Chintha Tellambura, Marco Di Renzo:
Generalized User-Relay Selection in Network-Coded Cooperation Systems. ICC 2019: 1-6

[c155] Kyeong Jin Kim, Hongwu Liu, Marco Di Renzo, Theodoros A. Tsiftsis, Philip V. Orlik, H. Vincent Poor:
Outage Analysis of Distributed CDD Systems with Mixture Interference. ICC 2019: 1-6

[c154] Vincenzo Sciancalepore, Marco Di Renzo, Xavier Costa-Pérez:
STORNS: Stochastic Radio Access Network Slicing. ICC 2019: 1-7

[c153] Viet-Dung Nguyen, Marco Di Renzo, Ali Mansour, Arnaud Coatanhay, Nguyen Linh-Trung:
A closed-form expression of the BER of reconfigurable antenna aided Space Shift Keying (SSK). ISCIT 2019: 350-355

[c152] Malcolm Egan, Valeria Loscrì, Ido Nevat, Trung Q. Duong, Marco Di Renzo:
Estimation and Optimization for Molecular Communications with a Coexistence Constraint. NANOCOM 2019: 17:1-17:6

[c151] Nemanja Stefan Perovic, Marco Di Renzo, Mark F. Flanagan:
Transmit-Receive Generalized Spatial Modulation Based on Dual-layered MIMO Transmission. PIMRC 2019: 1-7

[c150] Alexis I. Aravanis, Olga Muñoz, Antonio Pascual-Iserte, Marco Di Renzo:

On the Coordination of Base Stations in Ultra Dense Cellular Networks. VTC Spring 2019: 1-6

[i51] Marco Di Renzo, Jian Song:
Reflection Probability in Wireless Networks with Metasurface-Coated Environmental Objects: An Approach Based on Random Spatial Processes. CoRR abs/1901.01046 (2019)

[i50] Anastasios K. Papazafeiropoulos, Pandelis Kourtessis, Marco Di Renzo, John M. Senior, Symeon Chatzinotas:
SDN-enabled MIMO Heterogeneous Cooperative Networks with Flexible Cell Association. CoRR abs/1901.04280 (2019)

[i49] Vincenzo Sciancalepore, Marco Di Renzo, Xavier Costa-Pérez:
STORNS: Stochastic Radio Access Network Slicing. CoRR abs/1901.05336 (2019)

[i48] Alessio Zappone, Marco Di Renzo, Mérouane Debbah:
Wireless Networks Design in the Era of Deep Learning: Model-Based, AI-Based, or Both? CoRR abs/1902.02647 (2019)

[i47] Marco Di Renzo, Mérouane Debbah, Dinh Thuy Phan Huy, Alessio Zappone, Mohamed-Slim Alouini, Chau Yuen, Vincenzo Sciancalepore, George C. Alexandropoulos, Jakob Hoydis, Haris Gacanin, Julien de Rosny, Ahcène Bounceur, Geoffroy Lerosey, Mathias Fink:
Smart Radio Environments Empowered by AI Reconfigurable Meta-Surfaces: An Idea Whose Time Has Come. CoRR abs/1903.08925 (2019)

[i46] Ertugrul Basar, Marco Di Renzo, Julien de Rosny, Mérouane Debbah, Mohamed-Slim Alouini, Rui Zhang:
Wireless Communications Through Reconfigurable Intelligent Surfaces. CoRR abs/1906.09490 (2019)

[i45] Miaowen Wen, Beixiong Zheng, Kyeong Jin Kim, Marco Di Renzo, Theodoros A. Tsiftsis, Kwang-Cheng Chen, Naofal Al-Dhahir:
A Survey on Spatial Modulation in Emerging Wireless Systems: Research Progresses and Applications. CoRR abs/1907.02941 (2019)

[i44] Sixian Li, Bin Duo, Xiaojun Yuan, Ying-Chang Liang, Marco Di Renzo:
Reconfigurable Intelligent Surface Assisted UAV Communication: Joint Trajectory Design and Passive Beamforming. CoRR abs/1908.04082 (2019)

[i43] Konstantinos Ntontin, Jian Song, Marco Di Renzo:
Multi-Antenna Relaying and Reconfigurable Intelligent Surfaces: End-to-End SNR and Achievable Rate. CoRR abs/1908.07967 (2019)

[i42] Konstantinos Ntontin, Marco Di Renzo, Jian Song, Fotis I. Lazarakis, Julien de Rosny, Dinh Thuy Phan Huy, Osvaldo Simeone, Rui Zhang, Mérouane Debbah, Geoffroy Lerosey, Mathias Fink, Sergei A. Tretyakov, Shlomo Shamai:
Reconfigurable Intelligent Surfaces vs. Relaying: Differences, Similarities, and Performance Comparison. CoRR abs/1908.08747 (2019)

[i41] Yifan Luo, Jiawei Yang, Wei Xu, Kezhi Wang, Marco Di Renzo:
Resource Allocation Using Gradient Boosting Aided Deep Q-Network for IoT in C-RANs. CoRR abs/1910.13084 (2019)

[i40] Nemanja Stefan Perovic, Marco Di Renzo, Mark F. Flanagan:
Channel Capacity Optimization Using Reconfigurable Intelligent

Surfaces in Indoor mmWave Environments. CoRR abs/1910.14310 (2019)

[i39] Huimei Han, Jun Zhao, Dusit Niyato, Marco Di Renzo, Quoc-Viet Pham: **Intelligent Reflecting Surface Aided Network: Power Control for Physical-Layer Broadcasting.** CoRR abs/1910.14383 (2019)

[i38] Nemanja Stefan Perovic, Marco Di Renzo, Mark F. Flanagan: **Transmit-Receive Generalized Spatial Modulation Based on Dual-layered MIMO Transmission.** CoRR abs/1911.03538 (2019)

[i37] Wankai Tang, Ming Zheng Chen, Xiangyu Chen, Jun Yan Dai, Yu Han, Marco Di Renzo, Yong Zeng, Shi Jin, Qiang Cheng, Tie Jun Cui: **Wireless Communications with Reconfigurable Intelligent Surface: Path Loss Modeling and Experimental Measurement.** CoRR abs/1911.05326 (2019)

[i36] Roy Karasik, Osvaldo Simeone, Marco Di Renzo, Shlomo Shamai: **Beyond Max-SNR: Joint Encoding for Reconfigurable Intelligent Surfaces.** CoRR abs/1911.09443 (2019)

[i35] Chongwen Huang, Sha Hu, George C. Alexandropoulos, Alessio Zappone, Chau Yuen, Rui Zhang, Marco Di Renzo, Mérouane Debbah: **Holographic MIMO Surfaces for 6G Wireless Networks: Opportunities, Challenges, and Trends.** CoRR abs/1911.12296 (2019)

[i34] Linglong Dai, Bichai Wang, Min Wang, Xue Yang, Jingbo Tan, Shuangkaisheng Bi, Shenheng Xu, Fan Yang, Zhi Chen, Marco Di Renzo, Lajos Hanzo: **Reconfigurable Intelligent Surface-Based Wireless Communication: Antenna Design, Prototyping and Experimental Results.** CoRR abs/1912.03620 (2019)

2018

[j123] Ali Mohammad Hayajneh, Syed Ali Raza Zaidi, Desmond C. McLernon, Marco Di Renzo, Mounir Ghogho: **Performance Analysis of UAV Enabled Disaster Recovery Networks: A Stochastic Geometric Framework Based on Cluster Processes.** IEEE Access 6: 26215-26230 (2018)

[j122] Ertugrul Basar, Miaowen Wen, Raed Mesleh, Marco Di Renzo, Yue Xiao, Harald Haas: **IEEE Access Special Section Editorial: Index Modulation Techniques for Next-Generation Wireless Networks.** IEEE Access 6: 26452-26456 (2018)

[j121] Ali Mokh, Matthieu Crussière, Maryline Hélard, Marco Di Renzo: **Theoretical Performance of Coherent and Incoherent Detection for Zero-Forcing Receive Antenna Shift Keying.** IEEE Access 6: 39907-39916 (2018)

[j120] Jonatan Krolikowski, Anastasios Giovanidis, Marco Di Renzo: **A Decomposition Framework for Optimal Edge-Cache Leasing.** IEEE J. Sel. Areas Commun. 36(6): 1345-1359 (2018)

[j119] Malcolm Egan, Trang C. Mai, Trung Quang Duong, Marco Di Renzo: **Coexistence in molecular communications.** Nano Commun. Networks 16: 37-44 (2018)

[j118] Peng Liu, Jiri Blumenstein, Nemanja Stefan Perovic, Marco Di Renzo, Andreas Springer:

Performance of Generalized Spatial Modulation MIMO Over Measured 60GHz Indoor Channels. IEEE Trans. Commun. 66(1): 133-148 (2018)

[j117] Xiaohui Zhou, Jing Guo, Salman Durrani, Marco Di Renzo: **Power Beacon-Assisted Millimeter Wave Ad Hoc Networks.** IEEE Trans. Commun. 66(2): 830-844 (2018)

[j116] Nemanja Stefan Perovic, Peng Liu, Jiri Blumenstein, Marco Di Renzo, Andreas Springer: **Optimization of the Cut-Off Rate of Generalized Spatial Modulation With Transmit Precoding.** IEEE Trans. Commun. 66(10): 4578-4595 (2018)

[j115] Rakshith Rajashekar, Marco Di Renzo, K. V. S. Hari, Lajos Hanzo: **A Beamforming-Aided Full-Diversity Scheme for Low-Altitude Air-to-Ground Communication Systems Operating With Limited Feedback.** IEEE Trans. Commun. 66(12): 6602-6613 (2018)

[j114] Marco Di Renzo, Alessio Zappone, Lam-Thanh Tu, Mérouane Debbah: **System-Level Modeling and Optimization of the Energy Efficiency in Cellular Networks - A Stochastic Geometry Framework.** IEEE Trans. Wirel. Commun. 17(4): 2539-2556 (2018)

[j113] Marco Di Renzo, Shanshan Wang, Xiaojun Xi: **Inhomogeneous Double Thinning - Modeling and Analysis of Cellular Networks by Using Inhomogeneous Poisson Point Processes.** IEEE Trans. Wirel. Commun. 17(8): 5162-5182 (2018)

[j112] Kyeong Jin Kim, Hongwu Liu, Marco Di Renzo, Philip V. Orlik, H. Vincent Poor: **Secrecy Analysis of Distributed CDD-Based Cooperative Systems With Deliberate Interference.** IEEE Trans. Wirel. Commun. 17(12): 7865-7878 (2018)

[j111] Ping Yang, Yue Xiao, Yong Liang Guan, Marco Di Renzo, Shaoqian Li, Lajos Hanzo: **Multidomain Index Modulation for Vehicular and Railway Communications: A Survey of Novel Techniques.** IEEE Veh. Technol. Mag. 13(3): 124-134 (2018)

[j110] Alessio Zappone, Saman Atapattu, Marco Di Renzo, Jamie S. Evans, Mérouane Debbah: **Energy-Efficient Relay Assignment and Power Control in Multi-User and Multi-Relay Networks.** IEEE Wirel. Commun. Lett. 7(6): 1070-1073 (2018)

[c149] Marco Di Renzo, Alessio Zappone, Tu Lam Thanh, Mérouane Debbah: **Stochastic Geometry Modeling of Cellular Networks: A New Definition of Coverage and its Application to Energy Efficiency Optimization.** EUSIPCO 2018: 1507-1511

[c148] Jing Zhu, Ping Yang, Yue Xiao, Marco Di Renzo, Shaoqian Li: **Dual Polarized Spatial Modulation for Land Mobile Satellite Communications.** GLOBECOM Workshops 2018: 1-6

[c147] Kyeong Jin Kim, Hongwu Liu, Marco Di Renzo, H. Vincent Poor: **Performance Analysis of Spectrum Sharing Systems with Distributed CDD.** GLOBECOM 2018: 206-212

[c146] Malcolm Egan, Trang C. Mai, Trung Quang Duong, Marco Di Renzo: **Coordination via Advection Dynamics in Nanonetworks with**

Molecular Communication. ICC 2018: 1-6

[c145] Kyeong Jin Kim, Hongwu Liu, Marco Di Renzo, Philip V. Orlik, H. Vincent Poor:
Secrecy Performance Analysis of Distributed CDD Based Cooperative Systems with Jamming. ICC 2018: 1-6

[c144] Kyeong Jin Kim, Marco Di Renzo, Hongwu Liu, Philip V. Orlik, H. Vincent Poor:
Diversity Gain Analysis of Distributed CDD Systems in Non-Identical Frequency Selective Fading. ICC 2018: 1-6

[c143] Jonatan Krolikowski, Anastasios Giovanidis, Marco Di Renzo:
Optimal Cache Leasing from a Mobile Network Operator to a Content Provider. INFOCOM 2018: 2744-2752

[c142] Marco Di Renzo, Shanshan Wang, Xiaojun Xi:
Modeling Spatially-Correlated Cellular Networks by Using Inhomogeneous Poisson Point Processes. INISCOM 2018: 306-313

[c141] Xuewen Qian, Marco Di Renzo:
Receiver Design in Molecular Communications: An Approach Based on Artificial Neural Networks. ISWCS 2018: 1-5

[c140] Salvatore Talarico, Matthew C. Valenti, Marco Di Renzo:
Outage Correlation in Finite and Clustered Wireless Networks. PIMRC 2018: 1-7

[c139] Tu Lam Thanh, Marco Di Renzo, Justin P. Coon:
Stochastic Geometry Analysis of Receiver Diversity in Cellular Networks with SWIPT. SPAWC 2018: 1-5

[c138] Shanshan Wang, Marco Di Renzo, Xiaojun Xi:
Modeling Spatially-Correlated Cellular Networks by Using Inhomogeneous Poisson Point Processes. WSA 2018: 1-2

[i33] Marco Di Renzo, Alessio Zappone, Tu Lam Thanh, Mérouane Debbah:
System-Level Modeling and Optimization of the Energy Efficiency in Cellular Networks - A Stochastic Geometry Framework. CoRR abs/1801.07513 (2018)

[i32] Jonatan Krolikowski, Anastasios Giovanidis, Marco Di Renzo:
Optimal Cache Leasing from a Mobile Network Operator to a Content Provider. CoRR abs/1801.08018 (2018)

[i31] Mudasar Bacha, Marco Di Renzo, Bruno Clerckx:
Treating Interference as Noise in Cellular Networks: A Stochastic Geometry Approach. CoRR abs/1807.00738 (2018)

[i30] Salvatore Talarico, Matthew C. Valenti, Marco Di Renzo:
Outage Correlation in Finite and Clustered Wireless Networks. CoRR abs/1807.03921 (2018)

[i29] Alessio Zappone, Marco Di Renzo, Mérouane Debbah, Tu Lam Thanh, Xuewen Qian:
Model-Aided Wireless Artificial Intelligence: Embedding Expert Knowledge in Deep Neural Networks Towards Wireless Systems Optimization. CoRR abs/1808.01672 (2018)

2017

[j109] Ertugrul Basar, Miaowen Wen, Raed Mesleh, Marco Di Renzo, Yue Xiao, Harald Haas:

Index Modulation Techniques for Next-Generation Wireless Networks. IEEE Access 5: 16693-16746 (2017)

[j108] Chien-Chun Cheng, Marco Di Renzo, Fabio Graziosi, Alessio Zappone: **On Simultaneous Wireless Information and Power Transfer for Receive Spatial Modulation.** IEEE Access 5: 23204-23211 (2017)

[j107] Arman Shojaeifard, Kai-Kit Wong, Marco Di Renzo, Gan Zheng, Khairi Ashour Hamdi, Jie Tang: **Self-Interference in Full-Duplex Multi-User MIMO Channels.** IEEE Commun. Lett. 21(4): 841-844 (2017)

[j106] Nemanja Stefan Perovic, Peng Liu, Marco Di Renzo, Andreas Springer: **Receive Spatial Modulation for LOS mmWave Communications Based on TX Beamforming.** IEEE Commun. Lett. 21(4): 921-924 (2017)

[j105] Trang C. Mai, Malcolm Egan, Trung Quang Duong, Marco Di Renzo: **Event Detection in Molecular Communication Networks With Anomalous Diffusion.** IEEE Commun. Lett. 21(6): 1249-1252 (2017)

[j104] Ahmed G. Helmy, Marco Di Renzo, Naofal Al-Dhahir: **On the Robustness of Spatial Modulation to I/Q Imbalance.** IEEE Commun. Lett. 21(7): 1485-1488 (2017)

[j103] Athanasios Stavridis, Marco Di Renzo, Peter M. Grant, Harald Haas: **Performance Analysis of Receive Space Modulation in the Shadowing MIMO Broadcast Channel.** IEEE Trans. Commun. 65(5): 1972-1983 (2017)

[j102] Konstantinos Ntontin, Marco Di Renzo, Christos V. Verikoukis: **On the Feasibility of Full-Duplex Relaying in Multiple-Antenna Cellular Networks.** IEEE Trans. Commun. 65(5): 2234-2249 (2017)

[j101] Peng Liu, Marco Di Renzo, Andreas Springer: **Variable-N_u Generalized Spatial Modulation for Indoor LOS mmWave Communication: Performance Optimization and Novel Switching Structure.** IEEE Trans. Commun. 65(6): 2625-2640 (2017)

[j100] Arman Shojaeifard, Kai-Kit Wong, Marco Di Renzo, Gan Zheng, Khairi Ashour Hamdi, Jie Tang: **Massive MIMO-Enabled Full-Duplex Cellular Networks.** IEEE Trans. Commun. 65(11): 4734-4750 (2017)

[j99] Kyeong Jin Kim, Marco Di Renzo, Hongwu Liu, Philip V. Orlik, H. Vincent Poor: **Performance Analysis of Distributed Single Carrier Systems With Distributed Cyclic Delay Diversity.** IEEE Trans. Commun. 65(12): 5514-5528 (2017)

[j98] Gaojie Chen, Justin P. Coon, Marco Di Renzo: **Secrecy Outage Analysis for Downlink Transmissions in the Presence of Randomly Located Eavesdroppers.** IEEE Trans. Inf. Forensics Secur. 12(5): 1195-1206 (2017)

[j97] Rakshith Rajashekar, Marco Di Renzo, K. V. S. Hari, Lajos Hanzo: **A Generalized Transmit and Receive Diversity Condition for Feedback-Assisted MIMO Systems: Theory and Applications in Full-Duplex Spatial Modulation.** IEEE Trans. Signal Process. 65(24): 6505-6519 (2017)

[j96] Lixia Xiao, Ping Yang, Yue Xiao, Shiwen Fan, Marco Di Renzo, Wei Xiang, Shaoqian Li:

Efficient Compressive Sensing Detectors for Generalized Spatial Modulation Systems. IEEE Trans. Veh. Technol. 66(2): 1284-1298 (2017)

[j95] Agapi Mesodiakaki, Ferran Adelantado, Luis Alonso, Marco Di Renzo, Christos V. Verikoukis:
Energy- and Spectrum-Efficient User Association in Millimeter-Wave Backhaul Small-Cell Networks. IEEE Trans. Veh. Technol. 66(2): 1810-1821 (2017)

[j94] Marco Di Renzo, Wei Lu:
System-Level Analysis and Optimization of Cellular Networks With Simultaneous Wireless Information and Power Transfer: Stochastic Geometry Modeling. IEEE Trans. Veh. Technol. 66(3): 2251-2275 (2017)

[j93] Ahmed G. Helmy, Marco Di Renzo, Naofal Al-Dhahir:
Differential Spatially Modulated Space-Time Block Codes With Temporal Permutations. IEEE Trans. Veh. Technol. 66(8): 7548-7552 (2017)

[j92] Fanny Parzysz, Marco Di Renzo, Christos V. Verikoukis:
Power-Availability-Aware Cell Association for Energy-Harvesting Small-Cell Base Stations. IEEE Trans. Wirel. Commun. 16(4): 2409-2422 (2017)

[j91] Lixia Xiao, Yue Xiao, Yan Zhao, Ping Yang, Marco Di Renzo, Shaoqian Li, Wei Xiang:
Time-Domain Turbo Equalization for Single-Carrier Generalized Spatial Modulation. IEEE Trans. Wirel. Commun. 16(9): 5702-5716 (2017)

[c137] Saman Atapattu, Prathapasinghe Dharmawansa, Marco Di Renzo, Jamie S. Evans:
Relay Selection in Full-Duplex Multiple-User Wireless Networks. GLOBECOM 2017: 1-6

[c136] Riccardo Bassoli, Marco Di Renzo, Fabrizio Granelli:
Analytical energy-efficient planning of 5G cloud radio access network. ICC 2017: 1-4

[c135] Francisco Javier Martin-Vega, M. Carmen Aguayo-Torres, Gerardo Gómez, Marco Di Renzo:
Interference-Aware Muting for the uplink of heterogeneous cellular networks: A stochastic geometry approach. ICC 2017: 1-6

[c134] Arman Shojaeifard, Kai-Kit Wong, Marco Di Renzo, Gan Zheng, Khairi Ashour Hamdi, Jie Tang:
Full-duplex versus half-duplex large scale antenna system. ICC Workshops 2017: 743-748

[c133] Marco Di Renzo:
Spatial modulation based on reconfigurable antennas - A new air interface for the IoT. MILCOM 2017: 495-500

[c132] Trang C. Mai, Tiep Minh Hoang, Hoang Duong Tuan, Marco Di Renzo, Trung Quang Duong:
Modeling and Analysis of Interference for Diffusion-Based Nanoscale Networks with Spatially Distributed Transmitters. VTC Spring 2017: 1-5

[c131] Arman Shojaeifard, Kai-Kit Wong, Marco Di Renzo, Khairi Ashour Hamdi, Jie Tang:

Self-Interference Distribution over Full-Duplex Multi-User MIMO Channels. WCNC 2017: 1-4

[c130] Jonatan Krolikowski, Anastasios Giovanidis, Marco Di Renzo: **Fair distributed user-traffic association in cache equipped cellular networks.** WiOpt 2017: 1-6

[c129] Dinh Thuy Phan Huy, Yvan Kokar, Jean Rioult, Nadine Malhouroux-Gaffet, Jean-Christophe Prévotet, Cyril Buey, Philippe Ratajczak, Maryline Hélard, Kammel Rachedi, Abdelwaheb Ourir, Christian Leray, Julien de Rosny, Alain Le Cornec, Azeddine Gati, Thierry Sarrebourse, Patrice Pajusco, Marco Di Renzo: **First Visual Demonstration of Transmit and Receive Spatial Modulations Using the "Radio Wave Display".** WSA 2017: 1-7

[i28] Arman Shojaeifard, Kai-Kit Wong, Marco Di Renzo, Gan Zheng, Khairi Ashour Hamdi, Jie Tang: **Self-Interference in Full-Duplex Multi-User MIMO Channels.** CoRR abs/1701.00277 (2017)

[i27] Gaojie Chen, Justin P. Coon, Marco Di Renzo: **Secrecy Outage Analysis for Downlink Transmissions in the Presence of Randomly Located Eavesdroppers.** CoRR abs/1701.00982 (2017)

[i26] Francisco Javier Martin-Vega, M. Carmen Aguayo-Torres, Gerardo Gómez, Marco Di Renzo: **On Muting Mobile Terminals for Uplink Interference Mitigation in HetNets - System-Level Analysis via Stochastic Geometry.** CoRR abs/1702.03726 (2017)

[i25] Xiaohui Zhou, Jing Guo, Salman Durrani, Marco Di Renzo: **Power Beacon-Assisted Millimeter Wave Ad Hoc Networks.** CoRR abs/1703.06611 (2017)

2016

[j90] Anh Tuan Giang, Anthony Busson, Marco Di Renzo: **Modeling and optimization of CSMA/CA in VANET.** Ann. Oper. Res. 239(2): 553-568 (2016)

[j89] Ping Yang, Yue Xiao, Yong Liang Guan, K. V. S. Hari, A. Chockalingam, Shinya Sugiura, Harald Haas, Marco Di Renzo, Christos Masouros, Zi Long Liu, Lixia Xiao, Shaoqian Li, Lajos Hanzo: **Single-Carrier SM-MIMO: A Promising Design for Broadband Large-Scale Antenna Systems.** IEEE Commun. Surv. Tutorials 18(3): 1687-1716 (2016)

[j88] Tu Lam Thanh, Marco Di Renzo, Justin P. Coon: **System-Level Analysis of SWIPT MIMO Cellular Networks.** IEEE Commun. Lett. 20(10): 2011-2014 (2016)

[j87] Athanasios Stavridis, Marco Di Renzo, Peter M. Grant, Harald Haas: **On the Asymptotic Performance of Receive Space Modulation in the Shadowing Broadcast Channel.** IEEE Commun. Lett. 20(10): 2103-2106 (2016)

[j86] Ahmed G. Helmy, Marco Di Renzo, Naofal Al-Dhahir: **Enhanced-Reliability Cyclic Generalized Spatial-and-Temporal Modulation.** IEEE Commun. Lett. 20(12): 2374-2377 (2016)

[j85] Tu Lam Thanh, Marco Di Renzo, Justin P. Coon: **System-level analysis of receiver diversity in SWIPT-enabled cellular**

networks. J. Commun. Networks 18(6): 926-937 (2016)

[j84] Marco Di Renzo, Peng Guan:
Stochastic Geometry Modeling and System-Level Analysis of Uplink Heterogeneous Cellular Networks With Multi-Antenna Base Stations. IEEE Trans. Commun. 64(6): 2453-2476 (2016)

[j83] Yansha Deng, Lifeng Wang, Maged Elkashlan, Marco Di Renzo, Jinhong Yuan:
Modeling and Analysis of Wireless Power Transfer in Heterogeneous Cellular Networks. IEEE Trans. Commun. 64(12): 5290-5303 (2016)

[j82] Sandeep Narayanan, Marco Di Renzo, Fabio Graziosi, Harald Haas:
Distributed Spatial Modulation: A Cooperative Diversity Protocol for Half-Duplex Relay-Aided Wireless Networks. IEEE Trans. Veh. Technol. 65(5): 2947-2964 (2016)

[j81] Dushyantha A. Basnayaka, Marco Di Renzo, Harald Haas:
Massive But Few Active MIMO. IEEE Trans. Veh. Technol. 65(9): 6861-6877 (2016)

[j80] Konstantinos Ntontin, Marco Di Renzo, Christos V. Verikoukis:
Analog-Network-Coded Two-Way Relaying Under the Impact of CSI Errors and Network Interference. IEEE Trans. Veh. Technol. 65(11): 9029-9040 (2016)

[j79] Piya Patcharamaneepakorn, Shangbin Wu, Cheng-Xiang Wang, El-Hadi M. Aggoune, Mohammed M. Alwakeel, Xiaohu Ge, Marco Di Renzo:
Spectral, Energy, and Economic Efficiency of 5G Multicell Massive MIMO Systems With Generalized Spatial Modulation. IEEE Trans. Veh. Technol. 65(12): 9715-9731 (2016)

[j78] Athanasios Stavridis, Marco Di Renzo, Harald Haas:
Performance Analysis of Multistream Receive Spatial Modulation in the MIMO Broadcast Channel. IEEE Trans. Wirel. Commun. 15(3): 1808-1820 (2016)

[j77] Ping Yang, Yong Liang Guan, Yue Xiao, Marco Di Renzo, Shaoqian Li, Lajos Hanzo:
Transmit Precoded Spatial Modulation: Maximizing the Minimum Euclidean Distance Versus Minimizing the Bit Error Ratio. IEEE Trans. Wirel. Commun. 15(3): 2054-2068 (2016)

[j76] Marco Di Renzo, Wei Lu, Peng Guan:
The Intensity Matching Approach: A Tractable Stochastic Geometry Approximation to System-Level Analysis of Cellular Networks. IEEE Trans. Wirel. Commun. 15(9): 5963-5983 (2016)

[j75] Francisco Javier Martin-Vega, Gerardo Gómez, Mari Carmen Aguayo Torres, Marco Di Renzo:
Analytical Modeling of Interference Aware Power Control for the Uplink of Heterogeneous Cellular Networks. IEEE Trans. Wirel. Commun. 15(10): 6742-6757 (2016)

[j74] Peng Liu, Marco Di Renzo, Andreas Springer:
Line-of-Sight Spatial Modulation for Indoor mmWave Communication at 60 GHz. IEEE Trans. Wirel. Commun. 15(11): 7373-7389 (2016)

[c128] Jian Song, Lam-Thanh Tu, Marco Di Renzo:
On the feasibility of interference alignment in ultra-dense millimeter-wave cellular networks. ACSSC 2016: 1176-1180

'20
'10
'00

[c127] Gaojie Chen, Justin P. Coon, Marco Di Renzo:
Secrecy Enhancement by Antenna Selection and FD Communication with Randomly Located Eavesdroppers. GLOBECOM 2016: 1-6

[c126] Arman Shojaeifard, Kai-Kit Wong, Marco Di Renzo, Khairi Ashour Hamdi, Jie Tang:
Design and Analysis of Full-Duplex Massive MIMO Cellular Networks. GLOBECOM Workshops 2016: 1-6

[c125] Ahmad AlAmmouri, Hesham ElSawy, Ahmed Kamel Sultan-Salem, Marco Di Renzo, Mohamed-Slim Alouini:
Modeling cellular networks in fading environments with dominant specular components. ICC 2016: 1-7

[c124] Yansha Deng, Lifeng Wang, Maged Elkashlan, Marco Di Renzo, Jinhong Yuan:
K-tier heterogeneous cellular networks with wireless power transfer. ICC 2016: 1-6

[c123] Peng Guan, Marco Di Renzo:
Stochastic geometry analysis and optimization of uplink cellular networks with fractional power control and optimum combining. ICC 2016: 1-6

[c122] Stefano Tennina, Manuel Santos, Agapi Mesodiakaki, Prodromos-Vasileios Mekikis, Elli Kartsakli, Angelos Antonopoulos, Marco Di Renzo, Athanasios Stavridis, Fabio Graziosi, Luis Alonso, Christos V. Verikoukis:
WSN4QoL: WSNs for remote patient monitoring in e-Health applications. ICC 2016: 1-6

[c121] Shanshan Wang, Konstantinos Samdanis, Xavier Costa-Pérez, Marco Di Renzo:
On spectrum and infrastructure sharing in multi-operator cellular networks. ICT 2016: 1-4

[c120] Konstantinos Ntontin, Marco Di Renzo, Christos V. Verikoukis:
System-level performance analysis of relay-aided multiple-antenna cellular networks. PIMRC 2016: 1-6

[c119] Robinson Pizzio, Bartolomeu F. Uchôa Filho, Marco Di Renzo, Didier Le Ruyet:
Generalized spatial modulation for downlink multiuser MIMO systems with multicast. PIMRC 2016: 1-6

[c118] Tu Lam Thanh, Marco Di Renzo, Justin P. Coon:
MIMO cellular networks with Simultaneous Wireless Information and Power Transfer. SPAWC 2016: 1-5

[i24] Francisco Javier Martin-Vega, Gerardo Gómez, Mari Carmen Aguayo Torres, Marco Di Renzo:
Analytical Modeling of Interference Aware Power Control for the Uplink of Heterogeneous Cellular Networks. CoRR abs/1601.03164 (2016)

[i23] Ahmad AlAmmouri, Hesham ElSawy, Ahmed Kamal Sultan-Salem, Marco Di Renzo, Mohamed-Slim Alouini:
Modeling Cellular Networks in Fading Environments with Dominant Specular Components. CoRR abs/1602.03676 (2016)

[i22] Marco Di Renzo, Wei Lu, Peng Guan:
The Intensity Matching Approach: A Tractable Stochastic Geometry

Approximation to System-Level Analysis of Cellular Networks. CoRR abs/1604.02683 (2016)

[i21] Fanny Parzysz, Marco Di Renzo, Christos V. Verikoukis:
Power-Availability-Aware Cell Association for Energy-Harvesting Small-Cell Base Stations. CoRR abs/1607.02317 (2016)

[i20] Shanshan Wang, Konstantinos Samdanis, Xavier Pérez Costa, Marco Di Renzo:
On Spectrum and Infrastructure Sharing in Multi-Operator Cellular Networks. CoRR abs/1608.06168 (2016)

[i19] Tu Lam Thanh, Marco Di Renzo, Justin P. Coon:
MIMO Cellular Networks with Simultaneous Wireless Information and Power Transfer. CoRR abs/1608.07989 (2016)

[i18] Jonatan Krolikowski, Anastasios Giovanidis, Marco Di Renzo:
Fair distributed user-traffic association in cache equipped cellular networks. CoRR abs/1610.03727 (2016)

[i17] Arman Shojaeifard, Kai-Kit Wong, Marco Di Renzo, Gan Zheng, Khairi Ashour Hamdi, Jie Tang:
Massive MIMO-Enabled Full-Duplex Cellular Networks. CoRR abs/1611.03854 (2016)

2015

[j73] Elli Kartsakli, Angelos Antonopoulos, Aris S. Lalos, Stefano Tennina, Marco Di Renzo, Luis Alonso, Christos V. Verikoukis:
Reliable MAC design for ambient assisted living: moving the coordination to the cloud. IEEE Commun. Mag. 53(1): 78-86 (2015)

[j72] Nan (Jonas) Yang, Lifeng Wang, Giovanni Geraci, Maged Elkashlan, Jinhong Yuan, Marco Di Renzo:
Safeguarding 5G wireless communication networks using physical layer security. IEEE Commun. Mag. 53(4): 20-27 (2015)

[j71] Ping Yang, Marco Di Renzo, Yue Xiao, Shaoqian Li, Lajos Hanzo:
Design Guidelines for Spatial Modulation. IEEE Commun. Surv. Tutorials 17(1): 6-26 (2015)

[j70] Justin P. Coon, David E. Simmons, Marco Di Renzo:
Approximating the Outage Probability of Parallel Fading Channels. IEEE Commun. Lett. 19(12): 2190-2193 (2015)

[j69] Thang X. Vu, Pierre Duhamel, Marco Di Renzo:
Performance Analysis of Network Coded Cooperation with Channel Coding and Adaptive DF-Based Relaying in Rayleigh Fading Channels. IEEE Signal Process. Lett. 22(9): 1354-1358 (2015)

[j68] Marco Di Renzo, Wei Lu:
Stochastic Geometry Modeling and Performance Evaluation of MIMO Cellular Networks Using the Equivalent-in-Distribution (EiD)-Based Approach. IEEE Trans. Commun. 63(3): 977-996 (2015)

[j67] Wei Lu, Marco Di Renzo:
Stochastic Geometry Modeling and System-Level Analysis & Optimization of Relay-Aided Downlink Cellular Networks. IEEE Trans. Commun. 63(11): 4063-4085 (2015)

[j66] Saud Althunibat, Marco Di Renzo, Fabrizio Granelli:
Towards energy-efficient cooperative spectrum sensing for cognitive

radio networks: an overview. Telecommun. Syst. 59(1): 77-91 (2015)

[j65] Sandeep Narayanan, Marco Di Renzo, Marium Jalal Chaudhry, Fabio Graziosi, Harald Haas:
On the Achievable Performance-Complexity Tradeoffs of Relay-Aided Space Shift Keying. IEEE Trans. Signal Inf. Process. over Networks 1(2): 129-144 (2015)

[j64] Marco Di Renzo, Wei Lu:
On the Diversity Order of Selection Combining Dual-Branch Dual-Hop AF Relaying in a Poisson Field of Interferers at the Destination. IEEE Trans. Veh. Technol. 64(4): 1620-1628 (2015)

[j63] Angelos Antonopoulos, Aris S. Lalos, Marco Di Renzo, Christos V. Verikoukis:
Cross-Layer Theoretical Analysis of NC-Aided Cooperative ARQ Protocols in Correlated Shadowed Environments. IEEE Trans. Veh. Technol. 64(9): 4074-4087 (2015)

[j62] Cong Li, Yuzhen Huang, Marco Di Renzo, Jinlong Wang, Yunpeng Cheng:
Low-Complexity ML Detection for Spatial Modulation MIMO With APSK Constellation. IEEE Trans. Veh. Technol. 64(9): 4315-4321 (2015)

[j61] Kezhi Wang, Yunfei Chen, Marco Di Renzo:
Outage Probability of Dual-Hop Selective AF With Randomly Distributed and Fixed Interferers. IEEE Trans. Veh. Technol. 64(10): 4603-4616 (2015)

[j60] Marco Di Renzo, Wei Lu:
End-to-End Error Probability and Diversity Analysis of AF-Based Dual-Hop Cooperative Relaying in a Poisson Field of Interferers at the Destination. IEEE Trans. Wirel. Commun. 14(1): 15-32 (2015)

[j59] Konstantinos Ntontin, Marco Di Renzo, Ana I. Pérez-Neira, Christos V. Verikoukis:
Analog Network Coding in the Multiple Access Relay Channel: Error Rate Analysis and Optimal Power Allocation. IEEE Trans. Wirel. Commun. 14(6): 3015-3032 (2015)

[j58] Xiping Wu, Marco Di Renzo, Harald Haas:
Adaptive Selection of Antennas for Optimum Transmission in Spatial Modulation. IEEE Trans. Wirel. Commun. 14(7): 3630-3641 (2015)

[j57] Aris S. Lalos, Angelos Antonopoulos, Elli Kartsakli, Marco Di Renzo, Stefano Tennina, Luis Alonso, Christos V. Verikoukis:
RLNC-Aided Cooperative Compressed Sensing for Energy Efficient Vital Signal Telemonitoring. IEEE Trans. Wirel. Commun. 14(7): 3685-3699 (2015)

[j56] Thang X. Vu, Pierre Duhamel, Marco Di Renzo:
On the Diversity of Network-Coded Cooperation With Decode-and-Forward Relay Selection. IEEE Trans. Wirel. Commun. 14(8): 4369-4378 (2015)

[j55] Marco Di Renzo:
Stochastic Geometry Modeling and Analysis of Multi-Tier Millimeter Wave Cellular Networks. IEEE Trans. Wirel. Commun. 14(9): 5038-5057 (2015)

[c117] Stefano Tennina, Dionysis Xenakis, Mattia Boschi, Marco Di Renzo, Fabio Graziosi, Christos V. Verikoukis:

A Modular and Flexible Network Architecture for Smart Grids. ADHOC-NOW 2015: 273-287

[c116] Sina Rezaei Aghdam, Tolga M. Duman, Marco Di Renzo: **On secrecy rate analysis of spatial modulation and space shift keying.** BlackSeaCom 2015: 63-67

[c115] Wei Lu, Marco Di Renzo, Trung Quang Duong: **On Stochastic Geometry Analysis and Optimization of Wireless-Powered Cellular Networks.** GLOBECOM 2015: 1-7

[c114] Athanasios Stavridis, Marco Di Renzo, Harald Haas: **On the Performance of Multi-Stream Receive Spatial Modulation in the MIMO Broadcast Channel.** GLOBECOM 2015: 1-6

[c113] Lifeng Wang, Maged Elkashlan, Robert W. Heath Jr., Marco Di Renzo, Kai-Kit Wong: **Millimeter Wave Power Transfer and Information Transmission.** GLOBECOM 2015: 1-6

[c112] Wei Lu, Marco Di Renzo: **Stochastic geometry analysis of multi-user MIMO cellular networks using Zero-Forcing precoding.** ICC 2015: 1477-1482

[c111] Marco Di Renzo: **Stochastic geometry modeling and performance evaluation of mmWave cellular communications.** ICC 2015: 5992-5997

[c110] Marco Di Renzo, Cheng-Xiang Wang: **Tutorial #1: Modeling, Analysis and optimization of 5G wireless communication networks.** ICCC 2015: 1-4

[c109] Francisco Javier Martin-Vega, Marco Di Renzo, Mari Carmen Aguayo Torres, Gerardo Gómez, Trung Q. Duong: **Stochastic geometry modeling and analysis of backhaul-constrained Hyper-Dense Heterogeneous cellular networks.** ICTON 2015: 1-4

[c108] Wei Lu, Marco Di Renzo: **Accurate Stochastic Geometry Modeling and Analysis of mmWave Cellular Networks.** ICUWB 2015: 1-5

[c107] Wei Lu, Marco Di Renzo: **Stochastic geometry modeling of mmWave cellular networks: Analysis and experimental validation.** M&N 2015: 1-4

[c106] Wei Lu, Marco Di Renzo: **Stochastic Geometry Modeling of Cellular Networks: Analysis, Simulation and Experimental Validation.** MSWiM 2015: 179-188

[c105] Peng Guan, Marco Di Renzo: **Stochastic Geometry Analysis of the Energy Efficiency of Downlink MIMO Cellular Networks.** VTC Spring 2015: 1-5

[c104] Peng Guan, Marco Di Renzo, Trung Quang Duong: **Stochastic Geometry Modeling and Performance Evaluation of Downlink MIMO Cellular Networks.** VTC Fall 2015: 1-5

[i16] Wei Lu, Marco Di Renzo: **Stochastic Geometry Modeling of Cellular Networks: Analysis, Simulation and Experimental Validation.** CoRR abs/1506.03857 (2015)

[i15] Marco Di Renzo:
Stochastic Geometry Modeling and Performance Evaluation of mmWave Cellular Communications. CoRR abs/1506.05222 (2015)

[i14] Young Jin Chun, Mazen Omar Hasna, Ali Ghrayeb, Marco Di Renzo:
On Modeling Heterogeneous Wireless Networks Using Non-Poisson Point Processes. CoRR abs/1506.06296 (2015)

[i13] Lifeng Wang, Maged Elkashlan, Robert W. Heath Jr., Marco Di Renzo, Kai-Kit Wong:
Millimeter Wave Power Transfer and Information Transmission. CoRR abs/1512.05915 (2015)

2014

[j54] Saud Althunibat, Marco Di Renzo, Fabrizio Granelli:
Cooperative spectrum sensing for cognitive radio networks under limited time constraints. Comput. Commun. 43: 55-63 (2014)

[j53] Marco Di Renzo, Wei Lu:
The Equivalent-in-Distribution (EiD)-Based Approach: On the Analysis of Cellular Networks Using Stochastic Geometry. IEEE Commun. Lett. 18(5): 761-764 (2014)

[j52] Fawaz S. Al-Qahtani, Yuzhen Huang, Marco Di Renzo, Salama Ikki, Hussein M. Alnuweiri:
Space Shift Keying MIMO System Under Spectrum Sharing Environments in Rayleigh Fading. IEEE Commun. Lett. 18(9): 1503-1506 (2014)

[j51] Marco Di Renzo, Peng Guan:
Stochastic Geometry Modeling of Coverage and Rate of Cellular Networks Using the Gil-Pelaez Inversion Theorem. IEEE Commun. Lett. 18(9): 1575-1578 (2014)

[j50] Fawaz S. Al-Qahtani, Salama Ikki, Marco Di Renzo, Hussein M. Alnuweiri:
Performance Analysis of Space Shift Keying Modulation With Imperfect Estimation in the Presence of Co-Channel Interference. IEEE Commun. Lett. 18(9): 1587-1590 (2014)

[j49] Stefano Tennina, Marco Di Renzo, Elli Kartsakli, Fabio Graziosi, Aris S. Lalos, Angelos Antonopoulos, Prodromos-Vasileios Mekikis, Luis Alonso:
WSN4QoL: A WSN-Oriented Healthcare System Architecture. Int. J. Distributed Sens. Networks 10 (2014)

[j48] Marco Di Renzo, Harald Haas, Ali Ghrayeb, Shinya Sugiura, Lajos Hanzo:
Spatial Modulation for Generalized MIMO: Challenges, Opportunities, and Implementation. Proc. IEEE 102(1): 56-103 (2014)

[j47] Elli Kartsakli, Aris S. Lalos, Angelos Antonopoulos, Stefano Tennina, Marco Di Renzo, Luis Alonso, Christos V. Verikoukis:
A Survey on M2M Systems for mHealth: A Wireless Communications Perspective. Sensors 14(10): 18009-18052 (2014)

[j46] Minh-Tuan Le, Vu-Duc Ngo, Hong-Anh Mai, Xuan-Nam Tran, Marco Di Renzo:
Spatially Modulated Orthogonal Space-Time Block Codes with Non-Vanishing Determinants. IEEE Trans. Commun. 62(1): 85-99 (2014)

'20
'10
'00

[j45] Marco Di Renzo:
On the Achievable Diversity of Repetition-Based and Relay Selection Network-Coded Cooperation. IEEE Trans. Commun. 62(7): 2296-2313 (2014)

[j44] Marco Di Renzo, Peng Guan:
A Mathematical Framework to the Computation of the Error Probability of Downlink MIMO Cellular Networks by Using Stochastic Geometry. IEEE Trans. Commun. 62(8): 2860-2879 (2014)

[j43] Athanasios Stavridis, Dushyantha A. Basnayaka, Sinan Sinanovic, Marco Di Renzo, Harald Haas:
A Virtual MIMO Dual-Hop Architecture Based on Hybrid Spatial Modulation. IEEE Trans. Commun. 62(9): 3161-3179 (2014)

[j42] Xiping Wu, Holger Claussen, Marco Di Renzo, Harald Haas:
Channel Estimation for Spatial Modulation. IEEE Trans. Commun. 62(12): 4362-4372 (2014)

[j41] Min Long, Yunfei Chen, Marco Di Renzo:
Performance Analysis of Relay Selection in the Presence of on-off Relay Traffic. IEEE Trans. Veh. Technol. 63(6): 2959-2964 (2014)

[c103] Stefano Tennina, Marco Di Renzo, Elli Kartsakli, Fabio Graziosi, Aris S. Lalos, Angelos Antonopoulos, Prodromos-Vasileios Mekikis, Luis Alonso, Christos V. Verikoukis:
A protocol architecture for energy efficient and pervasive eHealth systems. BHI 2014: 452-455

[c102] Stefano Tennina, Elli Kartsakli, Fabio Graziosi, Manuel Santos, Aris S. Lalos, Angelos Antonopoulos, Prodromos-Vasileios Mekikis, Marco Di Renzo, Luis Alonso, Christos V. Verikoukis:
An energy efficient protocol architecture for m-Health Systems. CAMAD 2014: 144-148

[c101] Konstantinos Ntontin, Marco Di Renzo, Ana I. Pérez-Neira, Christos V. Verikoukis:
Is Analog Network Coding more energy efficient than TDMA? CAMAD 2014: 244-248

[c100] Wei Lu, Marco Di Renzo:
Performance evaluation of relay-aided cellular networks by using stochastic geometry. CAMAD 2014: 265-269

[c99] Xiping Wu, Marco Di Renzo, Harald Haas:
A novel multiple access scheme based on spatial modulation MIMO. CAMAD 2014: 285-289

[c98] Elli Kartsakli, Aris S. Lalos, Angelos Antonopoulos, Stefano Tennina, Marco Di Renzo, Luis Alonso:
End-to-end communication challenges in M2M systems for mHealth applications. CAMAD 2014: 355-359

[c97] Athanasios Stavridis, Dushyantha A. Basnayaka, Marco Di Renzo, Harald Haas:
Average Bit Error Probability of Receive-Spatial Modulation using zero-forcing precoding. CAMAD 2014: 390-394

[c96] Marium Jalal Chaudhry, Sandeep Narayanan, Marco Di Renzo, Fabio Graziosi, Azhar Ul-Haq:

A novel and collaborative network channel coded mobile communication architecture. CollaborateCom 2014: 447-451

[c95] Abdelhamid Younis, Raed Mesleh, Marco Di Renzo, Harald Haas: **Generalised spatial modulation for large-scale MIMO.** EUSIPCO 2014: 346-350

[c94] Marium Jalal Chaudhry, Sandeep Narayanan, Marco Di Renzo, Fabio Graziosi, Azhar Ul-Haq: **Energy efficient and low complex wireless communication.** GlobalSIP 2014: 248-252

[c93] Aris S. Lalos, Elli Kartsakli, Angelos Antonopoulos, Stefano Termina, Marco Di Renzo, Luis Alonso, Christos V. Verikoukis: **Cooperative compressed sensing schemes for telemonitoring of vital signals in WBANs.** GLOBECOM 2014: 2387-2392

[c92] Wei Lu, Marco Di Renzo: **Interference-aware dual-hop cooperative relaying in a poisson field of interferers.** GLOBECOM 2014: 4143-4149

[c91] Konstantinos Ntontin, Marco Di Renzo, Ana I. Pérez-Neira, Christos V. Verikoukis: **Error rate analysis and optimal power allocation in multiple access relay channels with Analog Network Coding.** ICC 2014: 3559-3563

[c90] Xiping Wu, Marco Di Renzo, Harald Haas: **Optimal power allocation for channel estimation in spatial modulation.** ICC 2014: 5481-5485

[c89] Peng Guan, Marco Di Renzo: **Stochastic geometry analysis of the average error probability of downlink cellular networks.** ICNC 2014: 649-655

[c88] Wei Lu, Marco Di Renzo: **Performance analysis of Spatial Modulation MIMO in a poisson field of interferers.** ICNC 2014: 662-668

[c87] Saud Althunibat, Marco Di Renzo, Fabrizio Granelli: **Robust Algorithm against Spectrum Sensing Data Falsification Attack in Cognitive Radio Networks.** VTC Spring 2014: 1-5

[c86] Xiping Wu, Marco Di Renzo, Harald Haas: **Spatially-Averaging Channel Estimation for Spatial Modulation.** VTC Fall 2014: 1-5

[c85] Sandeep Narayanan, Marium Jalal Chaudhry, Athanasios Stavridis, Marco Di Renzo, Fabio Graziosi, Harald Haas: **Multi-user spatial modulation MIMO.** WCNC 2014: 671-676

[i12] Angelos Antonopoulos, Aris S. Lalos, Marco Di Renzo, Christos V. Verikoukis: **Cross-layer Theoretical Analysis of NC-aided Cooperative ARQ Protocols in Correlated Shadowed Environments (Extended Version).** CoRR abs/1408.6109 (2014)

[i11] Kezhi Wang, Yunfei Chen, Marco Di Renzo: **Outage Probability of Dual-Hop Selective AF With Randomly Distributed and Fixed Interferers.** CoRR abs/1410.1074 (2014)

[i10] Marco Di Renzo: **Stochastic Geometry Modeling and Analysis of Multi-Tier Millimeter**

Wave Cellular Networks. CoRR abs/1410.3577 (2014)

2013

[j40] Xuan-Thang Vu, Marco Di Renzo, Pierre Duhamel:
Multiple-access relaying with network coding: iterative network/channel decoding with imperfect CSI. EURASIP J. Adv. Signal Process. 2013: 170 (2013)

[j39] Konstantinos Ntontin, Marco Di Renzo, Ana I. Pérez-Neira, Christos V. Verikoukis:
Adaptive generalized space shift keying. EURASIP J. Wirel. Commun. Netw. 2013: 43 (2013)

[j38] Aris S. Lalos, Marco Di Renzo, Luis Alonso, Christos V. Verikoukis:
Impact of Correlated Log-Normal Shadowing on Two-Way Network Coded Cooperative Wireless Networks. IEEE Commun. Lett. 17(9): 1738-1741 (2013)

[j37] Konstantinos Ntontin, Marco Di Renzo, Ana I. Pérez-Neira, Christos V. Verikoukis:
A Low-Complexity Method for Antenna Selection in Spatial Modulation Systems. IEEE Commun. Lett. 17(12): 2312-2315 (2013)

[j36] Marco Di Renzo, Cristina Merola, Alessandro Guidotti, Fortunato Santucci, Giovanni Emanuele Corazza:
Error Performance of Multi-Antenna Receivers in a Poisson Field of Interferers: A Stochastic Geometry Approach. IEEE Trans. Commun. 61(5): 2025-2047 (2013)

[j35] Abdelhamid Younis, Sinan Sinanovic, Marco Di Renzo, Raed Mesleh, Harald Haas:
Generalised Sphere Decoding for Spatial Modulation. IEEE Trans. Commun. 61(7): 2805-2815 (2013)

[j34] Marco Di Renzo, Alessandro Guidotti, Giovanni Emanuele Corazza:
Average Rate of Downlink Heterogeneous Cellular Networks over Generalized Fading Channels: A Stochastic Geometry Approach. IEEE Trans. Commun. 61(7): 3050-3071 (2013)

[j33] Marco Di Renzo, Michela Iezzi, Fabio Graziosi:
On Diversity Order and Coding Gain of Multisource Multirelay Cooperative Wireless Networks With Binary Network Coding. IEEE Trans. Veh. Technol. 62(3): 1138-1157 (2013)

[j32] Marco Di Renzo, Harald Haas:
On Transmit Diversity for Spatial Modulation MIMO: Impact of Spatial Constellation Diagram and Shaping Filters at the Transmitter. IEEE Trans. Veh. Technol. 62(6): 2507-2531 (2013)

[j31] Nikola Serafimovski, Abdelhamid Younis, Raed Mesleh, Pat Chambers, Marco Di Renzo, Cheng-Xiang Wang, Peter M. Grant, Mark A. Beach, Harald Haas:
Practical Implementation of Spatial Modulation. IEEE Trans. Veh. Technol. 62(9): 4511-4523 (2013)

[j30] Marco Di Renzo, Michela Iezzi, Fabio Graziosi:
Error Performance and Diversity Analysis of Multi-Source Multi-Relay Wireless Networks with Binary Network Coding and Cooperative MRC. IEEE Trans. Wirel. Commun. 12(6): 2883-2903 (2013)

[j29] Angelos Antonopoulos, Marco Di Renzo, Christos V. Verikoukis: **Effect of realistic channel conditions on the energy efficiency of network coding-aided cooperative MAC protocols.** IEEE Wirel. Commun. 20(5): 76-84 (2013)

[c84] Athanasios Stavridis, Sandeep Narayanan, Marco Di Renzo, Luis Alonso, Harald Haas, Christos V. Verikoukis: **A base station switching on-off algorithm using traditional MIMO and spatial modulation.** CAMAD 2013: 68-72

[c83] Xiping Wu, Marco Di Renzo, Harald Haas: **Effect of pilot ratio on channel estimation for spatial modulation.** CAMAD 2013: 144-148

[c82] Konstantinos Ntontin, Marco Di Renzo, Ana I. Pérez-Neira, Christos V. Verikoukis: **Performance analysis of antenna subset selection in Space Shift Keying systems.** CAMAD 2013: 154-158

[c81] Sandeep Narayanan, Athanasios Stavridis, Marco Di Renzo, Fabio Graziosi, Harald Haas: **Distributed Spatially-Modulated Space-Time-Block-Codes.** CAMAD 2013: 159-163

[c80] Konstantinos Ntontin, Marco Di Renzo, Ana I. Pérez-Neira, Christos V. Verikoukis: **Performance analysis of multistream Spatial Modulation with maximum-likelihood detection.** GLOBECOM 2013: 1590-1594

[c79] Saud Althunibat, Marco Di Renzo, Fabrizio Granelli: **Optimizing the K-out-of-N rule for cooperative spectrum sensing in cognitive radio networks.** GLOBECOM 2013: 1607-1611

[c78] Stefano Tennina, Elli Kartsakli, Aris S. Lalos, Angelos Antonopoulos, Prodromos-Vasileios Mekikis, Marco Di Renzo, Yuriy Zacchia Lun, Fabio Graziosi, Luis Alonso, Christos V. Verikoukis: **WSN4QoL: Wireless Sensor Networks for quality of life.** Healthcom 2013: 277-279

[c77] Konstantinos Ntontin, Marco Di Renzo, Ana I. Pérez-Neira, Christos V. Verikoukis: **Antenna subset selection for spatial modulation: A novel and energy efficient single RF technique.** ICC 2013: 2454-2458

[c76] Xiping Wu, Marco Di Renzo, Harald Haas: **Channel estimation for spatial modulation.** PIMRC 2013: 306-310

[c75] Xuan-Thang Vu, Marco Di Renzo, Pierre Duhamel: **BER analysis of Joint Network/Channel decoding in block Rayleigh fading channels.** PIMRC 2013: 698-702

[c74] Yuriy Zacchia Lun, Stefano Tennina, Marco Di Renzo, Fabio Graziosi, Christos V. Verikoukis: **WSN-aided people localization: a ray tracing network planning and performance analysis tool.** SenSys 2013: 36:1-36:2

[c73] Xuan-Thang Vu, Vo Nguyen Quoc Bao, Marco Di Renzo, Pierre Duhamel: **Performance analysis of relay networks with channel code in low SNR regime.** SPAWC 2013: 575-579

[c72] Saud Althunibat, Sandeep Narayanan, Marco Di Renzo, Fabrizio Granelli: **Energy-Efficient Partial-Cooperative Spectrum Sensing in Cognitive Radio over Fading Channels.** VTC Spring 2013: 1-5

[c71] Sandeep Narayanan, Marco Di Renzo, Fabio Graziosi, Harald Haas: **Distributed Spatial Modulation for Relay Networks.** VTC Fall 2013: 1-6

[c70] Marco Di Renzo: **A Stochastic Geometry Approach to the Rate of Downlink Cellular Networks over Correlated Log-Normal Shadowing.** VTC Fall 2013: 1-5

[c69] Athanasios Stavridis, Sinan Sinanovic, Marco Di Renzo, Harald Haas: **Energy Evaluation of Spatial Modulation at a Multi-Antenna Base Station.** VTC Fall 2013: 1-5

[c68] Xiping Wu, Marco Di Renzo, Harald Haas: **Direct Transmit Antenna Selection for Transmit Optimized Spatial Modulation.** VTC Fall 2013: 1-5

[c67] Abdelhamid Younis, William H. Thompson, Marco Di Renzo, Cheng-Xiang Wang, Mark A. Beach, Harald Haas, Peter M. Grant: **Performance of Spatial Modulation Using Measured Real-World Channels.** VTC Fall 2013: 1-5

[c66] Alessandro Guidotti, Valentina Buccigrossi, Marco Di Renzo, Giovanni Emanuele Corazza, Fortunato Santucci: **Outage and symbol error probabilities of dual-hop AF relaying in a Poisson field of interferers.** WCNC 2013: 3704-3709

[i9] Marco Di Renzo, Alessandro Guidotti, Giovanni Emanuele Corazza: **Average Rate of Downlink Heterogeneous Cellular Networks over Generalized Fading Channels - A Stochastic Geometry Approach.** CoRR abs/1303.0529 (2013)

[i8] Marco Di Renzo, Michela Iezzi, Fabio Graziosi: **Error Performance and Diversity Analysis of Multi-Source Multi-Relay Wireless Networks with Binary Network Coding and Cooperative MRC.** CoRR abs/1303.5310 (2013)

[i7] Nikola Serafimovski, Abdelhamid Younis, Raed Mesleh, Pat Chambers, Marco Di Renzo, Cheng-Xiang Wang, Peter M. Grant, Mark A. Beach, Harald Haas: **Practical Implementation of Spatial Modulation.** CoRR abs/1305.0664 (2013)

[i6] Abdelhamid Younis, Sinan Sinanovic, Marco Di Renzo, Raed Mesleh, Harald Haas: **Generalised Sphere Decoding for Spatial Modulation.** CoRR abs/1305.1478 (2013)

[i5] Abdelhamid Younis, William H. Thompson, Marco Di Renzo, Cheng-Xiang Wang, Mark A. Beach, Harald Haas, Peter M. Grant: **Performance of Spatial Modulation using Measured Real-World Channels.** CoRR abs/1305.3437 (2013)

2012

[j28] Nikola Serafimovski, Sinan Sinanovic, Marco Di Renzo, Harald Haas: **Multiple access spatial modulation.** EURASIP J. Wirel. Commun. Netw. 2012: 299 (2012)

'20
'10
'00

[j27] Marco Di Renzo, Dario De Leonardis, Fabio Graziosi, Harald Haas:
Space Shift Keying (SSK -) MIMO with Practical Channel Estimates.
IEEE Trans. Commun. 60(4): 998-1012 (2012)

[j26] Marco Di Renzo, Harald Haas:
Bit Error Probability of SM-MIMO Over Generalized Fading Channels.
IEEE Trans. Veh. Technol. 61(3): 1124-1144 (2012)

[c65] Athanasios Stavridis, Sinan Sinanovic, Marco Di Renzo, Harald Haas:
A power saving dual-hop architecture based on hybrid spatial modulation. ACSCC 2012: 1366-1370

[c64] Marium Jalal Chaudhry, Michela Iezzi, Marco Di Renzo, Fabio Graziosi:
Joint channel network decoding for the two-source two-relay network. CAMAD 2012: 100-104

[c63] Konstantinos Ntontin, Marco Di Renzo, Ana I. Pérez-Neira, Christos V. Verikoukis:
Towards the performance and energy efficiency comparison of spatial modulation with conventional single-antenna transmission over generalized fading channels. CAMAD 2012: 120-124

[c62] Saud Althunibat, Sandeep Narayanan, Marco Di Renzo, Fabrizio Granelli:
On the Energy Consumption of the Decision-Fusion Rules in Cognitive Radio Networks. CAMAD 2012: 125-129

[c61] Sandeep Narayanan, Marco Di Renzo, Fabio Graziosi, Harald Haas:
Distributed space shift keying for the uplink of relay-aided cellular networks. CAMAD 2012: 130-134

[c60] Athanasios Stavridis, Sinan Sinanovic, Marco Di Renzo, Harald Haas, Peter M. Grant:
An energy saving base station employing spatial modulation. CAMAD 2012: 231-235

[c59] Xiping Wu, Sinan Sinanovic, Marco Di Renzo, Harald Haas:
Base station energy consumption for transmission optimised spatial modulation (TOSM) in correlated channels. CAMAD 2012: 261-265

[c58] Xiping Wu, Sinan Sinanovic, Marco Di Renzo, Harald Haas:
Structure optimisation of spatial modulation over correlated fading channels. GLOBECOM 2012: 4049-4053

[c57] Xuan-Thang Vu, Marco Di Renzo, Pierre Duhamel:
Iterative network/channel decoding for the noisy multiple-access relay channel (MARC). ICASSP 2012: 2901-2904

[c56] Alessandro Guidotti, Marco Di Renzo, Giovanni Emanuele Corazza, Fortunato Santucci:
Simplified expression of the average rate of cellular networks using stochastic geometry. ICC 2012: 2398-2403

[c55] Cristina Merola, Alessandro Guidotti, Marco Di Renzo, Fortunato Santucci, Giovanni Emanuele Corazza:
Average Symbol Error Probability in the presence of network interference and noise. ICC 2012: 2585-2590

[c54] Michela Iezzi, Marco Di Renzo, Fabio Graziosi:
Diversity, coding, and multiplexing trade-off of network-coded cooperative wireless networks. ICC 2012: 4116-4121

'20
'10
'00

[c53] Konstantinos Ntontin, Marco Di Renzo, Ana I. Pérez-Neira, Christos V. Verikoukis:
Adaptive Generalized Space Shift Keying (GSSK) Modulation for MISO Channels: A New Method for High Diversity and Coding Gains. VTC Fall 2012: 1-5

[c52] Sinan Sinanovic, Nikola Serafimovski, Marco Di Renzo, Harald Haas:
Secrecy Capacity of Space Keying with Two Antennas. VTC Fall 2012: 1-5

[c51] Athanasios Stavridis, Sinan Sinanovic, Marco Di Renzo, Harald Haas:
Transmit Precoding for Receive Spatial Modulation Using Imperfect Channel Knowledge. VTC Spring 2012: 1-5

[i4] Marco Di Renzo, Dario De Leonardis, Fabio Graziosi, Harald Haas:
Space Shift Keying (SSK-) MIMO with Practical Channel Estimates. CoRR abs/1201.4793 (2012)

[i3] Michela Iezzi, Marco Di Renzo, Fabio Graziosi:
Diversity, Coding, and Multiplexing Trade-Off of Network-Coded Cooperative Wireless Networks. CoRR abs/1203.2468 (2012)

2011

[j25] Marco Di Renzo, Harald Haas, Peter M. Grant:
Spatial modulation for multiple-antenna wireless systems: a survey. IEEE Commun. Mag. 49(12): 182-191 (2011)

[j24] Marco Di Renzo, Harald Haas:
Bit Error Probability of Space Modulation over Nakagami-m Fading: Asymptotic Analysis. IEEE Commun. Lett. 15(10): 1026-1028 (2011)

[j23] Marco Di Renzo, Harald Haas:
Space Shift Keying (SSK -) MIMO over Correlated Rician Fading Channels: Performance Analysis And a New Method for Transmit-Diversity. IEEE Trans. Commun. 59(1): 116-129 (2011)

[j22] Marco Di Renzo, Dario De Leonardis, Fabio Graziosi, Fortunato Santucci:
Performance Analysis and Optimization of -DTR IR-UWB Receivers Over Multipath Fading Channels With Tone Interference. IEEE Trans. Veh. Technol. 60(7): 3076-3095 (2011)

[j21] Marco Di Renzo, Harald Haas:
Bit Error Probability of Space-Shift Keying MIMO Over Multiple-Access Independent Fading Channels. IEEE Trans. Veh. Technol. 60(8): 3694-3711 (2011)

[c50] Rosalba Suffritti, Giovanni Emanuele Corazza, Alessandro Guidotti, Valeria Petrini, Daniele Tarchi, Alessandro Vanelli-Coralli, Marco Di Renzo:
Cognitive hybrid satellite-terrestrial systems. CogART 2011: 64

[c49] Thilo Fath, Harald Haas, Marco Di Renzo, Raed Mesleh:
Spatial Modulation Applied to Optical Wireless Communications in Indoor LOS Environments. GLOBECOM 2011: 1-5

[c48] Michela Iezzi, Marco Di Renzo, Fabio Graziosi:
Closed-Form Error Probability of Network-Coded Cooperative Wireless Networks with Channel-Aware Detectors. GLOBECOM 2011: 1-6

[c47] Marco Di Renzo, Jesus Alonso-Zarate, Luis Alonso, Christos V. Verikoukis: **On the Impact of Shadowing on the Performance of Cooperative Medium Access Control Protocols.** GLOBECOM 2011: 1-6

[c46] Marco Di Renzo, Dario De Leonardis, Fabio Graziosi, Harald Haas: **On the Performance of Space Shift Keying (SSK) Modulation with Imperfect Channel Knowledge.** GLOBECOM 2011: 1-6

[c45] Nikola Serafimovski, Sinan Sinanovic, Abdelhamid Younis, Marco Di Renzo, Harald Haas: **2-User multiple access spatial modulation.** GLOBECOM Workshops 2011: 343-347

[c44] Stefano Tennina, Marco Valletta, Fortunato Santucci, Marco Di Renzo, Fabio Graziosi, Riccardo Minutolo: **Entity Localization and Tracking: A Sensor Fusion-Based Mechanism in WSNs.** HPCC 2011: 983-988

[c43] Xuan-Thang Vu, Marco Di Renzo, Pierre Duhamel: **Optimal and low-complexity iterative joint network/channel decoding for the multiple-access relay channel.** ICASSP 2011: 3312-3315

[c42] Michela Iezzi, Marco Di Renzo, Fabio Graziosi: **Network Code Design from Unequal Error Protection Coding: Channel-Aware Receiver Design and Diversity Analysis.** ICC 2011: 1-6

[c41] Marco Di Renzo, Harald Haas: **Transmit-Diversity for Spatial Modulation (SM): Towards the Design of High-Rate Spatially-Modulated Space-Time Block Codes.** ICC 2011: 1-6

[c40] Marco Di Renzo, Harald Haas: **Space Shift Keying (SSK) Modulation: On the Transmit-Diversity / Multiplexing Trade-Off.** ICC 2011: 1-6

[c39] Abdelhamid Younis, Marco Di Renzo, Raed Mesleh, Harald Haas: **Sphere Decoding for Spatial Modulation.** ICC 2011: 1-6

[c38] Stefano Tennina, Roberto Alesii, Marco Di Renzo, Fortunato Santucci, Luigi Pomante, Fabio Graziosi: **Automatic personal identification system for security in critical services: a case study.** SenSys 2011: 421-422

[c37] Charly Poulliat, Marco Di Renzo: **Joint network/channel decoding for heterogeneous multi-source/multi-relay cooperative networks.** VALUETOOLS 2011: 151-156

[c36] Marco Di Renzo, Luis Alonso, Frank H. P. Fitzek, Andreas Foglar, Fabrizio Granelli, Fabio Graziosi, Christophe Gruet, Harald Haas, George Kormentzas, Ana I. Pérez-Neira, Jonathan Rodriguez, John S. Thompson, Christos V. Verikoukis: **GREENET - An Early Stage Training Network in Enabling Technologies for Green Radio.** VTC Spring 2011: 1-5

[c35] Nikola Serafimovski, Sinan Sinanovic, Marco Di Renzo, Harald Haas: **Dual-Hop Spatial Modulation (Dh-SM).** VTC Spring 2011: 1-5

[c34] Sinan Sinanovic, Marco Di Renzo, Harald Haas: **Secrecy Rate of Time Switched Transmit Diversity System.** VTC Spring 2011: 1-5

[i2] Marco Di Renzo, Dario De Leonardis, Fabio Graziosi, Harald Haas: **On the Performance of Space Shift Keying (SSK) Modulation with Imperfect Channel Knowledge.** CoRR abs/1107.4922 (2011)

[i1] Marco Di Renzo, Michela Iezzi, Fabio Graziosi: **Diversity and Coding Gain of Multi-Source Multi-Relay Cooperative Wireless Networks with Binary Network Coding.** CoRR abs/1109.4599 (2011)

2010

[j20] Jonathan Rodriguez, Valdemar Monteiro, Álvaro Gomes, Marco Di Renzo, Jesus Alonso-Zarate, Christos V. Verikoukis, Ainara González, Óscar Lázaro, Ahmet Akan, Julian Pérez Vila, George Kormentzas, David Boixade, Silvia de la Maza: **Converged Wireless Networking and Optimization for Next Generation Services.** EURASIP J. Wirel. Commun. Netw. 2010 (2010)

[j19] Nikola Serafimovski, Marco Di Renzo, Sinan Sinanovic, Raed Mesleh, Harald Haas: **Fractional bit encoded spatial modulation (FBE-SM).** IEEE Commun. Lett. 14(5): 429-431 (2010)

[j18] Marco Di Renzo, Harald Haas: **Improving the performance of space shift keying (SSK) modulation via opportunistic power allocation.** IEEE Commun. Lett. 14(6): 500-502 (2010)

[j17] Marco Di Renzo, Fabio Graziosi, Fortunato Santucci: **A comprehensive framework for performance analysis of cooperative multi-hop wireless systems over log-normal fading channels.** IEEE Trans. Commun. 58(2): 531-544 (2010)

[j16] Marco Di Renzo, Harald Haas: **A General Framework for Performance Analysis of Space Shift Keying (SSK) Modulation for MISO Correlated Nakagami-m Fading Channels.** IEEE Trans. Commun. 58(9): 2590-2603 (2010)

[j15] Marco Di Renzo, Harald Haas: **Space Shift Keying (SSK) Modulation with Partial Channel State Information: Optimal Detector and Performance Analysis over Fading Channels.** IEEE Trans. Commun. 58(11): 3196-3210 (2010)

[j14] Marco Di Renzo, Fabio Graziosi, Fortunato Santucci: **Channel Capacity Over Generalized Fading Channels: A Novel MGF-Based Approach for Performance Analysis and Design of Wireless Communication Systems.** IEEE Trans. Veh. Technol. 59(1): 127-149 (2010)

[j13] Raed Mesleh, Marco Di Renzo, Harald Haas, Peter M. Grant: **Trellis Coded Spatial Modulation.** IEEE Trans. Wirel. Commun. 9(7): 2349-2361 (2010)

[c33] Marco Di Renzo, Harald Haas: **On the Performance of SSK Modulation over Multiple-Access Rayleigh Fading Channels.** GLOBECOM 2010: 1-6

[c32] Marco Di Renzo, Harald Haas: **On the Performance of SSK Modulation over Correlated Nakagami-m Fading Channels.** ICC 2010: 1-6

[c31] Marco Di Renzo, Harald Haas: **Performance Comparison of Different Spatial Modulation Schemes in**

Correlated Fading Channels. ICC 2010: 1-6

[c30] Marco Di Renzo, Lana Iwaza, Michel Kieffer, Pierre Duhamel, Khaldoun Al Agha:
Robust Wireless Network Coding - An Overview. MOBILIGHT 2010: 685-698

[c29] Marco Di Renzo, Michela Iezzi, Fabio Graziosi:
Beyond routing via Network Coding: An overview of fundamental information-theoretic results. PIMRC 2010: 2745-2750

[c28] Marco Di Renzo, Raed Mesleh, Harald Haas, Peter M. Grant:
Upper Bounds for the Analysis of Trellis Coded Spatial Modulation over Correlated Fading Channels. VTC Spring 2010: 1-5

[c27] Marco Di Renzo, Harald Haas:
On the performance of Space Shift Keying MIMO systems over correlated Rician fading channels. WSA 2010: 72-79

[–] 2000 – 2009

2009

[j12] Marco Di Renzo, Laura Imbriglio, Fabio Graziosi, Fortunato Santucci:
Smolyak's algorithm: a simple and accurate framework for the analysis of correlated log-normal power-sums. IEEE Commun. Lett. 13(9): 673-675 (2009)

[j11] Stefano Tennina, Marco Di Renzo, Fabio Graziosi, Fortunato Santucci:
ESD: a novel optimisation algorithm for positioning estimation of WSNs in GPS-denied environments - from simulation to experimentation. Int. J. Sens. Networks 6(3/4): 131-156 (2009)

[j10] Marco Di Renzo, Fabio Graziosi, Fortunato Santucci:
Approximating the linear combination of log-normal RVs via pearson type IV distribution for UWB performance analysis. IEEE Trans. Commun. 57(2): 388-403 (2009)

[j9] Marco Di Renzo, Fabio Graziosi, Fortunato Santucci:
Further results on the approximation of log-normal power sum via pearson type IV distribution: a general formula for log-moments computation. IEEE Trans. Commun. 57(4): 893-898 (2009)

[j8] Marco Di Renzo, Fabio Graziosi, Fortunato Santucci:
On the cumulative distribution function of quadratic-form receivers over generalized fading channels with tone interference. IEEE Trans. Commun. 57(7): 2122-2137 (2009)

[j7] Marco Di Renzo, Fabio Graziosi, Fortunato Santucci:
A unified framework for performance analysis of CSI-assisted cooperative communications over fading channels. IEEE Trans. Commun. 57(9): 2551-2557 (2009)

[j6] Marco Di Renzo, Fabio Graziosi, Fortunato Santucci:
A comprehensive framework for performance analysis of dual-hop cooperative wireless systems with fixed-gain relays over generalized fading channels. IEEE Trans. Wirel. Commun. 8(10): 5060-5074 (2009)

[j5] Marco Di Renzo, Laura Imbriglio, Fabio Graziosi, Fortunato Santucci:
Distributed data fusion over correlated log-normal sensing and

'20
'10
'00

reporting channels: Application to cognitive radio networks. IEEE Trans. Wirel. Commun. 8(12): 5813-5821 (2009)

[c26] Marco Di Renzo, Laura Imbriglio, Fabio Graziosi, Fortunato Santucci: **Cooperative Spectrum Sensing over Correlated Log-Normal Sensing and Reporting Channels.** GLOBECOM 2009: 1-8

[c25] Marco Di Renzo, Laura Imbriglio, Fabio Graziosi, Fortunato Santucci: **Second-order statistics of Amplify-and-Forward multi-hop wireless networks: A framework for computing the end-to-end SNR auto-correlation function over Log-Normal shadowing channels.** ICUMT 2009: 1-6

[c24] Stefano Tennina, Luigi Pomante, Fabio Graziosi, Marco Di Renzo, Roberto Alesii, Fortunato Santucci: **Distributed localization, tracking, and automatic personal identification: a solution based on a wireless biometric badge.** WiNTECH 2009: 97-98

[c23] Marco Di Renzo, Laura Imbriglio, Fabio Graziosi, Fortunato Santucci: **Cooperative spectrum sensing for cognitive radio networks with amplify and forward relaying over correlated log-normal shadowing.** MobiHoc 2009: 341-342

[c22] Marco Di Renzo, Laura Imbriglio, Fabio Graziosi, Fortunato Santucci, Christos V. Verikoukis: **Cooperative Spectrum Sensing for Cognitive Radios: Performance Analysis for Realistic System Setups and Channel Conditions.** MOBILIGHT 2009: 125-134

[c21] Stefano Tennina, Luigi Pomante, Fabio Graziosi, Marco Di Renzo, Roberto Alesii, Fortunato Santucci: **Integrated GPS-denied localization, tracking and automatic personal identification.** SenSys 2009: 355-356

[c20] Stefano Tennina, Luigi Pomante, Fabio Graziosi, Marco Di Renzo, Roberto Alesii, Fortunato Santucci: **Localization, tracking, and automatic personal identification in GPS-denied environments A solution based on a rireless biometric badge.** TRIDENTCOM 2009: 1-3

[c19] Marco Di Renzo, Fabio Graziosi, Fortunato Santucci: **Cooperative Spectrum Sensing in Cognitive Radio Networks over Correlated Log-Normal Shadowing.** VTC Spring 2009

[c18] Marco Di Renzo, Fabio Graziosi, Fortunato Santucci: **On the performance of cooperative systems with blind relays over Nakagami-m and Weibull fading.** WCNC 2009: 279-284

2008

[j4] Marco Di Renzo, Fabio Graziosi, Fortunato Santucci: **A Framework for the Analysis of UWB Receivers in Sparse Multipath Channels with IntraPulse Interference via Pad'e Expansion.** IEEE Trans. Commun. 56(4): 535-541 (2008)

[j3] Marco Di Renzo, Luca Alfredo Annoni, Fabio Graziosi, Fortunato Santucci: **A Novel Class of Algorithms for Timing Acquisition of Differential Transmitted Reference UWB Receivers: Architecture, Performance**

Analysis and System Design. IEEE Trans. Wirel. Commun. 7(6): 2368-2387 (2008)

[c17] Stefano Tennina, Marco Di Renzo, Fabio Graziosi, Fortunato Santucci: **Pearson - based Analysis of Positioning Error Distribution in Wireless Sensor Networks.** DSD 2008: 685-692

[c16] Marco Di Renzo, Fabio Graziosi, Fortunato Santucci: **A Modified Delay Locked Loop Synchronizer for Ranging - based Fine Timing Acquisition of Differential Transmitted Reference UWB Receivers.** EW 2008

[c15] Marco Di Renzo, Fabio Graziosi, Fortunato Santucci: **Performance of Cooperative Multi-Hop Wireless Systems over Log-Normal Fading Channels.** GLOBECOM 2008: 4489-4494

[c14] Marco Di Renzo, Fabio Graziosi, Fortunato Santucci: **On the Performance of CSI-Assisted Cooperative Communications over Generalized Fading Channels.** ICC 2008: 1001-1007

[c13] Stefano Tennina, Marco Di Renzo: **ESD: A Novel Optimization Algorithm for Positioning Estimation in Wireless Sensor Networks - Analysis and Experimental Validation via a Testbed Platform.** ICCCN 2008: 892-898

[c12] Stefano Tennina, Marco Di Renzo, Fabio Graziosi, Fortunato Santucci: **Locating zigbee® nodes using the ti®s cc2431 location engine: a testbed platform and new solutions for positioning estimation of wsns in dynamic indoor environments.** MELT 2008: 37-42

[c11] Marco Di Renzo, Fabio Graziosi, Fortunato Santucci: **A General Formula for Log-MGF Computation: Application to the Approximation of Log-Normal Power Sum via Pearson Type IV Distribution.** VTC Spring 2008: 999-1003

[c10] Stefano Tennina, Marco Di Renzo, Fortunato Santucci, Fabio Graziosi: **On the Distribution of Positioning Errors in Wireless Sensor Networks: A Simulative Comparison of Optimization Algorithms.** WCNC 2008: 2075-2080

2007

[j2] Marco Di Renzo, Fabio Graziosi, Fortunato Santucci: **An exact framework for performance analysis of IR-UWB systems: the need for approximations.** IEEE Commun. Lett. 11(10): 769-771 (2007)

[c9] Marco Di Renzo, R. Michael Buehrer, Jaime Torres: **Pulse Shape Distortion and Ranging Accuracy in UWB-Based Body Area Networks for Full-Body Motion Capture and Gait Analysis.** GLOBECOM 2007: 3775-3780

[c8] Marco Di Renzo, Fabio Graziosi, Fortunato Santucci: **On the Approximation of the Linear Combination of Log-Normal RVs via Pearson Type IV Distribution: Application to UWB Performance Analysis.** ICC 2007: 4104-4109

[c7] Marco Di Renzo, Fabio Graziosi, Fortunato Santucci: **An Analytical Framework for Performance Analysis of UWB Systems in Log-Normal Multipath Channels via Pearson Type IV Distribution.** VTC Spring 2007: 1564-1568

2006

'20
'10
'00

[j1] Marco Di Renzo, Fabio Graziosi, Riccardo Minutolo, Mauro Montanari, Fortunato Santucci:
The ultra-wide bandwidth outdoor channel: From measurement campaign to statistical modelling. Mob. Networks Appl. 11(4): 451-467 (2006)

[c6] Marco Di Renzo, Luca Alfredo Annoni, Fabio Graziosi, Fortunato Santucci:
Timing Acquisition for DTR UWB Receivers in Frequency Selective Multipath Channels. GLOBECOM 2006

[c5] Luca Alfredo Annoni, Marco Di Renzo, Fabio Graziosi, Fortunato Santucci:
Mean Acquisition Time and Overall Acquisition Probability for Differential UWB Receivers. ICC 2006: 5582-5589

[c4] Marco Di Renzo, Alessandro D'Onofrio, Fabio Graziosi, Fortunato Santucci:
A Distributed Direction of Arrival Estimation Algorithm for Self-Organizing Ultra Wide-Band Wireless Sensor Networks. ISWCS 2006: 93-97

[c3] Marco Di Renzo, Fabio Graziosi, Fortunato Santucci:
A Polyphase-Based Processing for All-Digital UWB Receiver Architectures. VTC Spring 2006: 2201-2205

[c2] Marco Di Renzo, Fabio Graziosi, Fortunato Santucci, Valerio Tarquini:
Performance analysis of differential receivers in synchronous shared environments. WCNC 2006: 2115-2120

2005

[c1] Marco Di Renzo, Fabio Graziosi, Alessandro Rea, Fortunato Santucci:
Performance analysis of differential receivers with quaternary modulation for UWB transmissions. GLOBECOM 2005: 6

[+] **Coauthor Index** [+] **Coauthor network**


Federal Ministry
of Education
and Research
RheinlandPfalz
SAARLAND
Leibniz
Association
DFG
Deutsche
Forschungsgemeinschaft
'20
'10
'00
nfdi