

Gabor Fodor

List of Publications by Year in descending order

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Version: 2024-02-01

135
papers

4,639
citations

304602

22
h-index

143943

57
g-index

137
all docs

137
docs citations

137
times ranked

3982
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Design aspects of network assisted device-to-device communications. IEEE Communications Magazine, 2012, 50, 170-177. | 4.9 | 1,119 |
| 2 | Millimeter Wave Cellular Networks: A MAC Layer Perspective. IEEE Transactions on Communications, 2015, 63, 3437-3458. | 4.9 | 364 |
| 3 | Device-to-Device Communications for National Security and Public Safety. IEEE Access, 2014, 2, 1510-1520. | 2.6 | 263 |
| 4 | LTE release 12 and beyond [Accepted From Open Call]. , 2013, 51, 154-160. | | 255 |
| 5 | Performance analysis of a distributed resource allocation scheme for D2D communications. , 2011, , . | | 167 |
| 6 | A Distributed Power Control Scheme for Cellular Network Assisted D2D Communications. , 2011, , . | | 140 |
| 7 | Effects of Heterogeneous Mobility on D2D- and Drone-Assisted Mission-Critical MTC in 5G. , 2017, 55, 79-87. | | 124 |
| 8 | Evolving Wireless Communications: Addressing the Challenges and Expectations of the Future. IEEE Vehicular Technology Magazine, 2013, 8, 24-30. | 2.8 | 120 |
| 9 | Intercell Interference Coordination in OFDMA Networks and in the 3GPP Long Term Evolution System. Journal of Communications, 2009, 4, . | 1.3 | 114 |
| 10 | Low-Latency Networking: Where Latency Lurks and How to Tame It. Proceedings of the IEEE, 2019, 107, 280-306. | 16.4 | 89 |
| 11 | Spectrum Pooling in MmWave Networks: Opportunities, Challenges, and Enablers. , 2016, 54, 33-39. | | 78 |
| 12 | Spectrum Sharing in mmWave Cellular Networks via Cell Association, Coordination, and Beamforming. IEEE Journal on Selected Areas in Communications, 2016, 34, 2902-2917. | 9.7 | 75 |
| 13 | A comparative study of power control approaches for device-to-device communications. , 2013, , . | | 70 |
| 14 | Flow level performance analysis of a multi-service system supporting elastic and adaptive services. Performance Evaluation, 2002, 49, 451-469. | 0.9 | 66 |
| 15 | On Unified Vehicular Communications and Radar Sensing in Millimeter-Wave and Low Terahertz Bands. IEEE Wireless Communications, 2019, 26, 146-153. | 6.6 | 66 |
| 16 | On the Energy Efficiency of MIMO Hybrid Beamforming for Millimeter-Wave Systems With Nonlinear Power Amplifiers. IEEE Transactions on Wireless Communications, 2018, 17, 7208-7221. | 6.1 | 65 |
| 17 | Mitigating Pilot Contamination by Pilot Reuse and Power Control Schemes for Massive MIMO Systems. , 2015, , . | | 62 |
| 18 | A distributed power control and mode selection algorithm for D2D communications. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, . | 1.5 | 59 |

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| 19 | When IoT Keeps People in the Loop: A Path Towards a New Global Utility. IEEE Communications Magazine, 2019, 57, 114-121. | 4.9 | 57 |
| 20 | Supporting Vehicle-to-Everything Services by 5G New Radio Release-16 Systems. IEEE Communications Standards Magazine, 2020, 4, 26-32. | 3.6 | 57 |
| 21 | Toward trusted, social-aware D2D connectivity: bridging across the technology and sociality realms. IEEE Wireless Communications, 2016, 23, 103-111. | 6.6 | 55 |
| 22 | An Overview of Device-to-Device Communications Technology Components in METIS. IEEE Access, 2016, 4, 3288-3299. | 2.6 | 54 |
| 23 | Performance analysis of network-assisted two-hop D2D communications. , 2014, , . | | 51 |
| 24 | Location-Aided Pilot Contamination Avoidance for Massive MIMO Systems. IEEE Transactions on Wireless Communications, 2018, 17, 2662-2674. | 6.1 | 43 |
| 25 | On the Impact of Inter-Cell Interference in LTE. , 2008, , . | | 41 |
| 26 | Multicast and Broadcast Enablers for High-Performing Cellular V2X Systems. IEEE Transactions on Broadcasting, 2019, 65, 454-463. | 2.5 | 41 |
| 27 | A mathematical framework for statistical QoS and capacity studies in OFDM networks. , 2009, , . | | 40 |
| 28 | Performance Analysis of a Reuse Partitioning Technique for OFDM Based Evolved UTRA. IEEE International Workshop on Quality of Service, 2006, , . | 0.0 | 31 |
| 29 | A Game Theoretic Approach to Setting the Pilot Power Ratio in Multi-User MIMO Systems. IEEE Transactions on Communications, 2018, 66, 999-1012. | 4.9 | 30 |
| 30 | Spectral efficient and fair user pairing for full-duplex communication in cellular networks. IEEE Transactions on Wireless Communications, 2016, 15, 7578-7593. | 6.1 | 29 |
| 31 | Benchmarking Practical RRM Algorithms for D2D Communications in LTE Advanced. Wireless Personal Communications, 2015, 82, 883-910. | 1.8 | 24 |
| 32 | Title is missing!. Telecommunication Systems, 2001, 17, 93-114. | 1.6 | 22 |
| 33 | Supporting Enhanced Vehicle-to-Everything Services by LTE Release 15 Systems. IEEE Communications Standards Magazine, 2019, 3, 26-33. | 3.6 | 22 |
| 34 | Hybrid Analog-Digital Beamforming Design for SE and EE Maximization in Massive MIMO Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 377-389. | 3.9 | 21 |
| 35 | Bounding the Blocking Probabilities in Multirate CDMA Networks Supporting Elastic Services. IEEE/ACM Transactions on Networking, 2007, 15, 944-956. | 2.6 | 20 |
| 36 | An Overview of Massive MIMO Technology Components in METIS. IEEE Communications Magazine, 2017, 55, 155-161. | 4.9 | 20 |

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| 37 | On efficient max-min fair routing algorithms. , 0, , . | | 19 |
| 38 | 1-bit Phase Shifters for Large-Antenna Full-Duplex mmWave Communications. IEEE Transactions on Wireless Communications, 2020, 19, 6916-6931. | 6.1 | 19 |
| 39 | Performance Analysis of the Uplink of a CDMA Cell Supporting Elastic Services. Lecture Notes in Computer Science, 2005, , 205-216. | 1.0 | 18 |
| 40 | A Binary Power Control Scheme for D2D Communications. IEEE Wireless Communications Letters, 2015, 4, 669-672. | 3.2 | 18 |
| 41 | A Novel Cell Reconfiguration Technique for Dynamic TDD Wireless Networks. IEEE Wireless Communications Letters, 2018, 7, 320-323. | 3.2 | 18 |
| 42 | Performance analysis of power control for device-to-device communication in cellular MIMO systems. , 2012, , . | | 17 |
| 43 | On Minimizing the MSE in the Presence of Channel State Information Errors. IEEE Communications Letters, 2015, 19, 1604-1607. | 2.5 | 17 |
| 44 | A Unifying Design of Hybrid Beamforming Architectures Employing Phase Shifters or Switches. IEEE Transactions on Vehicular Technology, 2018, 67, 11243-11247. | 3.9 | 16 |
| 45 | 5G New Radio for Automotive, Rail, and Air Transport. IEEE Communications Magazine, 2021, 59, 22-28. | 4.9 | 16 |
| 46 | On providing blocking probability and throughput guarantees in a multi-service environment. International Journal of Communication Systems, 2002, 15, 257-285. | 1.6 | 15 |
| 47 | Distributed Beamforming in Dynamic TDD MIMO Networks With BS to BS Interference Constraints. IEEE Wireless Communications Letters, 2018, 7, 788-791. | 3.2 | 15 |
| 48 | An Optimization Approach to Joint Cell and Power Allocation in Multicell Networks. , 2011, , . | | 14 |
| 49 | The Ninth Annual MLSP Competition: First place. , 2013, , . | | 14 |
| 50 | Distributed spectral efficiency maximization in full-duplex cellular networks. , 2016, , . | | 14 |
| 51 | Pilot Precoding and Combining in Multiuser MIMO Networks. IEEE Journal on Selected Areas in Communications, 2017, 35, 1632-1648. | 9.7 | 14 |
| 52 | Pricing-Based Distributed Beamforming for Dynamic Time Division Duplexing Systems. IEEE Transactions on Vehicular Technology, 2018, 67, 3145-3157. | 3.9 | 14 |
| 53 | Clustering Schemes for D2D Communications under Partial/No Network Coverage. , 2014, , . | | 13 |
| 54 | Fast-Lipschitz Power Control and User-Frequency Assignment in Full-Duplex Cellular Networks. IEEE Transactions on Wireless Communications, 2017, 16, 6672-6687. | 6.1 | 13 |

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| 55 | Bidirectional Sum-Power Minimization Beamforming in Dynamic TDD MIMO Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 9988-10002. | 3.9 | 13 |
| 56 | Performance Analysis of Block and Comb Type Channel Estimation for Massive MIMO Systems. , 2014, , . | | 12 |
| 57 | Near Optimum Power Control Under Fairness Constraints in CoMP Systems. , 2009, , . | | 11 |
| 58 | Network coding schemes for Device-to-Device communications based relaying for cellular coverage extension. , 2015, , . | | 11 |
| 59 | MMSE Receiver Design and SINR Calculation in MU-MIMO Systems With Imperfect CSI. IEEE Wireless Communications Letters, 2019, 8, 269-272. | 3.2 | 11 |
| 60 | On Selected V2X Technology Components and Enablers from the 5GCAR Project. , 2018, , . | | 10 |
| 61 | A Hybrid Model-Based and Data-Driven Approach to Spectrum Sharing in mmWave Cellular Networks. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 1269-1282. | 4.9 | 10 |
| 62 | Optimal Link Capacity Dimensioning in Proportionally Fair Networks. Lecture Notes in Computer Science, 2002, , 277-288. | 1.0 | 10 |
| 63 | Simulative Analysis of Access Selection Algorithms for Multi-Access Networks. , 0, , . | | 9 |
| 64 | Near Optimum Power Control and Precoding under Fairness Constraints in Network MIMO Systems. International Journal of Digital Multimedia Broadcasting, 2010, 2010, 1-17. | 0.4 | 9 |
| 65 | Fast Channel Estimation in the Transformed Spatial Domain for Analog Millimeter Wave Systems. IEEE Transactions on Wireless Communications, 2021, 20, 5926-5941. | 6.1 | 9 |
| 66 | Path optimization for elastic traffic under fairness constraints. Teletraffic Science and Engineering, 2001, 4, 667-680. | 0.4 | 8 |
| 67 | A Partially-Blocking Queueing System with CBR/VBR and ABR/UBR Arrival Streams. Telecommunication Systems, 2002, 19, 75-99. | 1.6 | 8 |
| 68 | Future Wireless Communications. , 2013, , . | | 8 |
| 69 | On the Impact of Antenna Correlation and CSI Errors on the Pilot-to-Data Power Ratio. IEEE Transactions on Communications, 2016, 64, 2622-2633. | 4.9 | 8 |
| 70 | How to Split UL/DL Antennas in Full-Duplex Cellular Networks. , 2018, , . | | 8 |
| 71 | Radio resource management for network assisted D2D in cellular uplink. , 2013, , . | | 7 |
| 72 | Network coding schemes for D2D communications based relaying for cellular coverage extension. Transactions on Emerging Telecommunications Technologies, 2017, 28, e2994. | 2.6 | 7 |

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| 73 | A Game Theoretic Approach to Uplink Pilot and Data Power Control in Multi-Cell Multi-User MIMO Systems. IEEE Transactions on Vehicular Technology, 2019, 68, 8707-8720. | 3.9 | 7 |
| 74 | User Scheduling for Sum-Rate Maximization Under Minimum Rate Constraints for the MIMO IBC. IEEE Wireless Communications Letters, 2019, 8, 1591-1595. | 3.2 | 7 |
| 75 | Smart Antenna Assignment is Essential in Full-Duplex Communications. IEEE Transactions on Communications, 2021, 69, 3450-3466. | 4.9 | 7 |
| 76 | Performance Analysis of a Linear MMSE Receiver in Time-Variant Rayleigh Fading Channels. IEEE Transactions on Communications, 2021, 69, 4098-4112. | 4.9 | 7 |
| 77 | Network Assisted Device-to-Device Communications: Use Cases, Design Approaches, and Performance Aspects. , 2014, , 135-163. | | 7 |
| 78 | Simultaneous Wireless Information and Power Transfer for Federated Learning. , 2021, , . | | 7 |
| 79 | On the Impact of Uplink Scheduling on Intercell Interference Variation in MIMO OFDM Systems. , 2009, , . | | 6 |
| 80 | Performance analysis of a reuse partitioning technique for multi-channel cellular systems supporting elastic services. International Journal of Communication Systems, 2009, 22, 307-342. | 1.6 | 6 |
| 81 | On Scheduling and Power Control in Multi-Cell Coordinated Clusters. , 2009, , . | | 6 |
| 82 | A message passing approach for resource allocation in cellular OFDMA communications. , 2012, , . | | 6 |
| 83 | Near-optimal practical power control schemes for D2D communications in cellular networks. , 2014, , . | | 6 |
| 84 | On the spectral efficiency and fairness in full-duplex cellular networks. , 2017, , . | | 6 |
| 85 | Performance Comparison of Practical Resource Allocation Schemes for Device-to-Device Communications. Wireless Communications and Mobile Computing, 2018, 2018, 1-14. | 0.8 | 6 |
| 86 | V2X Connectivity: From LTE to Joint Millimeter Wave Vehicular Communications and Radar Sensing. , 2019, , . | | 6 |
| 87 | Joint Resource Allocation and Transceiver Design for Sum-Rate Maximization Under Latency Constraints in Multicell MU-MIMO Systems. IEEE Transactions on Communications, 2021, 69, 4569-4584. | 4.9 | 6 |
| 88 | Efficient Optimization for Large-Scale MIMO-OFDM Spectral Precoding. IEEE Transactions on Wireless Communications, 2021, 20, 5496-5513. | 6.1 | 6 |
| 89 | Performance analysis of resource sharing policies in CDMA networks. International Journal of Communication Systems, 2007, 20, 207-233. | 1.6 | 5 |
| 90 | On multi-cell admission control in CDMA networks. International Journal of Communication Systems, 2008, 21, 25-50. | 1.6 | 5 |

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| 91 | Performance analysis of scheduling and interference coordination policies for OFDMA networks. Computer Networks, 2008, 52, 1252-1271. | 3.2 | 5 |
| 92 | Opportunistic target SINR setting for the MIMO broadcast channel. , 2010, , . | | 5 |
| 93 | Delay Analysis of Group Handover for Real-Time Control over Mobile Networks. , 2018, , . | | 5 |
| 94 | Distributed Digital and Hybrid Beamforming Schemes With MMSE-SIC Receivers for the MIMO Interference Channel. IEEE Transactions on Vehicular Technology, 2019, 68, 6790-6804. | 3.9 | 5 |
| 95 | Vehicular Positioning Using 5G Millimeter Wave and Sensor Fusion in Highway Scenarios. , 2020, , . | | 5 |
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| 97 | User Coordination for Fast Beam Training in FDD Multi-User Massive MIMO. IEEE Transactions on Wireless Communications, 2021, 20, 2961-2976. | 6.1 | 5 |
| 98 | Cellular Connectivity and Wearable Technology Enablers for Industrial Mid-End Applications. IEEE Communications Magazine, 2021, 59, 61-67. | 4.9 | 5 |
| 99 | Joint Pilot and Data Power Control Optimization in the Uplink of User-Centric Cell-Free Systems. IEEE Communications Letters, 2022, 26, 399-403. | 2.5 | 5 |
| 100 | Massive multiple-input multiple-output (MIMO) systems. , 2016, , 208-247. | | 4 |
| 101 | A Distributed Mode Selection Scheme for Full-Duplex Device-to-Device Communication. IEEE Transactions on Vehicular Technology, 2019, 68, 10267-10271. | 3.9 | 4 |
| 102 | Kolmogorov Model for Large Millimeter-Wave Antenna Arrays: Learning-based Beam-Alignment. , 2019, , . | | 4 |
| 103 | Low-Complexity OFDM Spectral Precoding. , 2019, , . | | 4 |
| 104 | EVM-Constrained and Mask-Compliant MIMO-OFDM Spectral Precoding. IEEE Transactions on Wireless Communications, 2021, 20, 590-606. | 6.1 | 4 |
| 105 | Blocking Probability Approximations and Revenue Optimization in Multirate Loss Networks. Simulation, 1997, 68, 56-63. | 1.1 | 3 |
| 106 | Modelling and analysis of routing and resource allocation techniques in multi-service networks. International Journal of Communication Systems, 1999, 12, 103-123. | 1.6 | 3 |
| 107 | On opportunistic power control for MIMO-OFDM systems. , 2010, , . | | 3 |
| 108 | Screening for congenital heart diseases by murmurs using telemedical phonocardiography. , 2012, 2012, 6100-3. | | 3 |

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| 109 | On the impact of antenna correlation on the pilot-data balance in multiple antenna systems. , 2015, , . | | 3 |
| 110 | The impact of beamforming and coordination on spectrum pooling in mmWave cellular networks. , 2016, , . | | 3 |
| 111 | Low Resolution Phase Shifters Suffice for Full-Duplex mmWave Communications. , 2019, , . | | 3 |
| 112 | Coordinated Beam Selection for Training Overhead Reduction in FDD Massive MIMO. , 2019, , . | | 3 |
| 113 | User Scheduling Based on Multi-Agent Deep Q-Learning for Robust Beamforming in Multicell MISO Systems. IEEE Communications Letters, 2020, 24, 2809-2813. | 2.5 | 3 |
| 114 | Decentralized User Scheduling for Rate-Constrained Sum-Utility Maximization in the MIMO IBC. IEEE Transactions on Communications, 2020, 68, 6215-6229. | 4.9 | 3 |
| 115 | MU-MIMO Receiver Design and Performance Analysis in Time-Varying Rayleigh Fading. IEEE Transactions on Communications, 2022, 70, 1214-1228. | 4.9 | 3 |
| 116 | On pilot dimensioning in multicell single input multiple output systems. , 2011, , . | | 2 |
| 117 | Location-Aided Pilot Contamination Elimination for Massive MIMO Systems. , 2014, , . | | 2 |
| 118 | Pilot precoding and combining in multiuser MIMO networks. , 2017, , . | | 2 |
| 119 | An ADMM approach to distributed coordinated beamforming in dynamic TDD networks. , 2017, , . | | 2 |
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| 121 | Kalman-Filter-Based Tracking of Millimeter-Wave Channel Parameters for V2X Applications. , 2019, , . | | 2 |
| 122 | Decentralized Joint Beamforming, User Scheduling, and QoS Management in 5G and Beyond Systems. IEEE Communications Standards Magazine, 2021, 5, 62-69. | 3.6 | 2 |
| 123 | Robust PAPR Reduction in Large-Scale MIMO-OFDM using Three-Operator ADMM-type Techniques. , 2021, , . | | 2 |
| 124 | On the Impact of Uplink Interference Coordination When Using Multiple Antennas at the Base Station. , 2008, , . | | 1 |
| 125 | On the impact of uplink power control in network MIMO systems with MMSE and SIC receivers. , 2010, , . | | 1 |
| 126 | Tensor-Based Modeling and Processing for Channel Estimation in Two-Hop V2X MIMO Systems. , 2019, , . | | 1 |

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| 127 | Recent Advances in Acquiring Channel State Information in Cellular MIMO Systems. Infocommunications Journal, 2019, 11, 2-12. | 0.6 | 1 |
| 128 | Low-complexity AoA and AoD Estimation in the Transformed Spatial Domain for Millimeter Wave MIMO Channels. , 2021, , . | | 1 |
| 129 | A Network-Assisted Game-Theoretic Design to Power Control in Autoregressive Fading Channels. IEEE Communications Letters, 2022, 26, 1663-1667. | 2.5 | 1 |
| 130 | A middlebox control plane framework for wireless and mobile ip networks. , 0, , . | | 0 |
| 131 | Broadband Wireless Access. Eurasip Journal on Wireless Communications and Networking, 2010, 2009, . | 1.5 | 0 |
| 132 | On Opportunistic Power Control for Alamouti and SM MIMO Systems. Wireless Personal Communications, 2012, 67, 335-358. | 1.8 | 0 |
| 133 | A Multi-Stream Pricing-Based Precoding and Power Control Algorithm for Dynamic TDD Networks. , 2019, , . | | 0 |
| 134 | A Proposed Scalable Environment for Medical Data Processing and Evaluation. , 0, , 603-613. | | 0 |
| 135 | Corrections to "MU-MIMO Receiver Design and Performance Analysis in Time-Varying Rayleigh Fading". IEEE Transactions on Communications, 2022, 70, 2891-2891. | 4.9 | 0 |