

François Baccelli

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

6,492
citations

430442

18
h-index

414034

32
g-index

52
all docs

52
docs citations

52
times ranked

3039
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Beam Management in 5G: A Stochastic Geometry Analysis. IEEE Transactions on Wireless Communications, 2022, 21, 2275-2290. | 6.1 | 21 |
| 2 | A computational framework for evaluating the role of mobility on the propagation of epidemics on point processes. Journal of Mathematical Biology, 2022, 84, 4. | 0.8 | 2 |
| 3 | Nash equilibrium structure of Cox process Hotelling games. Advances in Applied Probability, 2022, 54, 570-598. | 0.4 | 0 |
| 4 | Community detection on Euclidean random graphs. Information and Inference, 2021, 10, 109-160. | 0.9 | 1 |
| 5 | How wireless queues benefit from motion: an analysis of the continuum between zero and infinite mobility. IEEE Transactions on Wireless Communications, 2021, , 1-1. | 6.1 | 1 |
| 6 | Modeling and Analysis of Vehicle Safety Message Broadcast in Cellular Networks. IEEE Transactions on Wireless Communications, 2021, 20, 4087-4099. | 6.1 | 9 |
| 7 | On the steady state of continuous-time stochastic opinion dynamics with power-law confidence. Journal of Applied Probability, 2021, 58, 746-772. | 0.4 | 0 |
| 8 | On point processes defined by angular conditions on Delaunay neighbors in the Poisson-Voronoi Tessellation. Journal of Applied Probability, 2021, 58, 952-965. | 0.4 | 1 |
| 9 | Modeling and Analysis of Data Harvesting Architecture Based on Unmanned Aerial Vehicles. IEEE Transactions on Wireless Communications, 2020, 19, 1825-1838. | 6.1 | 8 |
| 10 | Escaping the Densification Plateau in Cellular Networks Through mmWave Beamforming. IEEE Wireless Communications Letters, 2020, 9, 1874-1878. | 3.2 | 3 |
| 11 | ComHapDet: a spatial community detection algorithm for haplotype assembly. BMC Genomics, 2020, 21, 586. | 1.2 | 7 |
| 12 | Mobility-Driven Association Policies for Dense Wireless Networks. Journal of the Indian Institute of Science, 2020, 100, 349-368. | 0.9 | 0 |
| 13 | Scaling Laws of Dense Multi-Antenna Cellular Networks. , 2020, , . | | 1 |
| 14 | A Unified Asymptotic Analysis of Area Spectral Efficiency in Ultradense Cellular Networks. IEEE Transactions on Information Theory, 2019, 65, 1236-1248. | 1.5 | 36 |
| 15 | Spatial and Temporal Analysis of Direct Communications From Static Devices to Mobile Vehicles. IEEE Transactions on Wireless Communications, 2019, 18, 5128-5140. | 6.1 | 10 |
| 16 | Powers Maximizing Proportional Fairness Among Poisson Bipoles. , 2019, , . | | 6 |
| 17 | Error Exponents for Dimension-Matched Vector Multiple Access Channels With Additive Noise. IEEE Transactions on Information Theory, 2019, 65, 2808-2823. | 1.5 | 0 |
| 18 | Stability of Wireless Random Access Systems. , 2019, , . | | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | SINR and Throughput of Dense Cellular Networks With Stretched Exponential Path Loss. IEEE Transactions on Wireless Communications, 2018, 17, 1147-1160. | 6.1 | 78 |
| 20 | Directional Cell Search Delay Analysis for Cellular Networks With Static Users. IEEE Transactions on Communications, 2018, 66, 4318-4332. | 4.9 | 6 |
| 21 | Modeling and Optimization of Direct Communications from IoT Devices to Vehicles. , 2018, , . | | 3 |
| 22 | Coverage Analysis in Cellular Networks with Planar and Vehicular Base Stations. , 2018, , . | | 1 |
| 23 | On Spatial and Temporal Variations in Ultra Dense Wireless Networks. , 2018, , . | | 0 |
| 24 | Poisson Cox Point Processes for Vehicular Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 10160-10165. | 3.9 | 50 |
| 25 | Densification Leveraging Mobility. , 2018, , . | | 10 |
| 26 | An Analytical Framework for Coverage in Cellular Networks Leveraging Vehicles. IEEE Transactions on Communications, 2018, , 1-1. | 4.9 | 58 |
| 27 | Asymptotic Analysis of Area Spectral Efficiency in Dense Cellular Networks. , 2018, , . | | 3 |
| 28 | Spatial Birth-Death Wireless Networks. IEEE Transactions on Information Theory, 2017, 63, 3964-3982. | 1.5 | 25 |
| 29 | Pairwise Stochastic Bounded Confidence Opinion Dynamics: Heavy Tails and Stability. IEEE Transactions on Automatic Control, 2017, 62, 5678-5693. | 3.6 | 21 |
| 30 | Mutual service processes in Euclidean spaces: existence and ergodicity. Queueing Systems, 2017, 86, 95-140. | 0.6 | 8 |
| 31 | End-to-End Optimization of High-Throughput DNA Sequencing. Journal of Computational Biology, 2016, 23, 789-800. | 0.8 | 2 |
| 32 | On the entropy and mutual information of point processes. , 2016, , . | | 9 |
| 33 | Spectral Efficiency Scaling Laws in Dense Random Wireless Networks With Multiple Receive Antennas. IEEE Transactions on Information Theory, 2016, 62, 1344-1359. | 1.5 | 40 |
| 34 | On Scaling Limits of Power Law Shot-Noise Fields. Stochastic Models, 2015, 31, 187-207. | 0.3 | 18 |
| 35 | On error exponents for a dimension-matched vector MAC with additive noise. , 2015, , . | | 2 |
| 36 | Pairwise stochastic bounded confidence opinion dynamics: Heavy tails and stability. , 2015, , . | | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Statistical Modeling and Probabilistic Analysis of Cellular Networks With Determinantal Point Processes. IEEE Transactions on Communications, 2015, 63, 3405-3422. | 4.9 | 73 |
| 38 | A Stochastic Geometry Framework for Analyzing Pairwise-Cooperative Cellular Networks. IEEE Transactions on Wireless Communications, 2015, 14, 794-808. | 6.1 | 100 |
| 39 | Stochastic bounded confidence opinion dynamics. , 2014, , . | | 7 |
| 40 | On Association Cells in Random Heterogeneous Networks. IEEE Wireless Communications Letters, 2014, 3, 70-73. | 3.2 | 41 |
| 41 | Modeling and Analysis of K-Tier Downlink Heterogeneous Cellular Networks. IEEE Journal on Selected Areas in Communications, 2012, 30, 550-560. | 9.7 | 1,290 |
| 42 | A Tractable Approach to Coverage and Rate in Cellular Networks. IEEE Transactions on Communications, 2011, 59, 3122-3134. | 4.9 | 2,540 |
| 43 | Interference Networks With Point-to-Point Codes. IEEE Transactions on Information Theory, 2011, 57, 2582-2596. | 1.5 | 77 |
| 44 | Stochastic Geometry and Wireless Networks: Volume I Theory. Foundations and Trends in Networking, 2010, 3, 249-449. | 10.2 | 381 |
| 45 | A new phase transitions for local delays in MANETs. , 2010, , . | | 75 |
| 46 | Stochastic analysis of spatial and opportunistic aloha. IEEE Journal on Selected Areas in Communications, 2009, 27, 1105-1119. | 9.7 | 237 |
| 47 | Stochastic Geometry and Wireless Networks: Volume II Applications. Foundations and Trends in Networking, 2009, 4, 1-312. | 10.2 | 256 |
| 48 | Equilibria of a class of transport equations arising in congestion control. Queueing Systems, 2007, 55, 1-8. | 0.6 | 12 |
| 49 | Elements of Queueing Theory. , 2003, , . | | 255 |
| 50 | On a coverage process ranging from the Boolean model to the Poisson-Voronoi tessellation with applications to wireless communications. , 2001, 33, 293-323. | | 53 |
| 51 | Stochastic geometry and architecture of communication networks. Telecommunication Systems, 1997, 7, 209-227. | 1.6 | 228 |