# Abhinav Kumar

## List of Publications by Year in Descending Order

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|---|---|---|---|
| 55 papers | 296 citations | 9 h-index | 14 g-index |
| 75 ext. papers | 449 ext. citations | 3.6 avg, IF | 4.13 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 55 | Embedded Sensors, Communication Technologies, Computing Platforms and Machine Learning for UAVs: A Review. *IEEE Sensors Journal*, **2021**, 1-1 | 4 | 13 |
| 54 | Joint NOMA for Improved SER of Cell-edge Users in Multi-cell Indoor VLC. *IEEE Wireless Communications Letters*, **2021**, 1-1 | 5.9 | 1 |
| 53 | Preserving Operation Frequency Privacy of Incumbents in CBRS. *IEEE Access*, **2021**, 1-1 | 3.5 | 0 |
| 52 | Design and performance analysis of joint control and shared channel scheduler for downlink in 3GPP narrowband-IoT. *Ad Hoc Networks*, **2021**, 114, 102440 | 4.8 | 0 |
| 51 | Adaptive User Pairing for NOMA Systems With Imperfect SIC. *IEEE Wireless Communications Letters*, **2021**, 10, 1547-1551 | 5.9 | 9 |
| 50 | Performance Analysis Under Double Sided Clipping and Real Time Implementation of DCO-GFDM in VLC Systems. *Journal of Lightwave Technology*, **2021**, 39, 33-41 | 4 | 1 |
| 49 | . *IEEE Wireless Communications Letters*, **2021**, 10, 609-613 | 5.9 | 4 |
| 48 | Performance Analysis of Energy Harvesting-Assisted Overlay Cognitive NOMA Systems With Incremental Relaying. *IEEE Open Journal of the Communications Society*, **2021**, 2, 1558-1576 | 6.7 | 6 |
| 47 | A Probabilistic Approach to Model SIC Based RACH Mechanism for Machine Type Communications in Cellular Networks. *IEEE Transactions on Vehicular Technology*, **2021**, 70, 1878-1893 | 6.8 | 0 |
| 46 | LTE-based passive radars and applications: a review. *International Journal of Remote Sensing*, **2021**, 42, 7489-7518 | 3.1 | 1 |
| 45 | Classification of Targets Using Statistical Features from Range FFT of mmWave FMCW Radars. *Electronics (Switzerland)*, **2021**, 10, 1965 | 2.6 | 5 |
| 44 | Target Classification by mmWave FMCW Radars Using Machine Learning on Range-Angle Images. *IEEE Sensors Journal*, **2021**, 21, 19993-20001 | 4 | 10 |
| 43 | A Successive Interference Cancellation Based Random Access Channel Mechanism for Machine-to-Machine Communications in Cellular Internet-of-Things. *IEEE Access*, **2021**, 9, 8367-8380 | 3.5 | 2 |
| 42 | LIDOR: A Lightweight DoS-Resilient Communication Protocol for Safety-Critical IoT Systems. *IEEE Internet of Things Journal*, **2020**, 7, 6802-6816 | 10.7 | 4 |
| 41 | Joint Control and Shared Channel Scheduling for Downlink in 3GPP Narrowband-IoT **2020**, | | 3 |
| 40 | Perceptual QoE-Optimal Resource Allocation for Adaptive Video Streaming. *IEEE Transactions on Broadcasting*, **2020**, 66, 346-358 | 4.7 | 5 |
| 39 | A Tunable Energy Signal for Intensity Modulation and Direct Detection Systems: Theory, Simulations, and Experiments. *IEEE Photonics Journal*, **2020**, 12, 1-12 | 1.8 | 4 |

| # | Publication | | |
|---|---|---|---|
| 38 | Optimisation of indoor hybrid PLC/VLC/RF communication systems. *IET Communications*, **2020**, 14, 117-126 | 2.6 | 5 |
| 37 | Methods for Cellular Network's Operation in Unlicensed mmWave Bands **2020**, | | 2 |
| 36 | Deep Learning-Based Smart Parking Solution using Channel State Information in LTE-Based Cellular Networks **2020**, | | 3 |
| 35 | Memory-Based Codes for Uniform Illumination in MIMO VLC. *IEEE Photonics Journal*, **2020**, 12, 1-15 | 1.8 | |
| 34 | A Survey of Resource Allocation Techniques for Cellular Network Operation in the Unlicensed Band. *Electronics (Switzerland)*, **2020**, 9, 1464 | 2.6 | 0 |
| 33 | Scheduling and Decoding of Downlink Control Channel in 3GPP Narrowband-IoT. *IEEE Access*, **2020**, 8, 175612-175624 | 3.5 | 2 |
| 32 | Streaming Video QoE Modeling and Prediction: A Long Short-Term Memory Approach. *IEEE Transactions on Circuits and Systems for Video Technology*, **2020**, 30, 661-673 | 6.4 | 27 |
| 31 | Energy Efficiency in Millimeter Wave based Cellular Networks with DUDe and Dynamic TDD **2020**, | | 2 |
| 30 | MIMO Codes for Uniform Illumination Across Space and Time in VLC With Dimming Control. *IEEE Photonics Journal*, **2019**, 11, 1-21 | 1.8 | 4 |
| 29 | Dynamic Time Division Duplexing for Downlink/Uplink Decoupled Millimeter Wave-Based Cellular Networks. *IEEE Communications Letters*, **2019**, 23, 1441-1445 | 3.8 | 5 |
| 28 | Improved Physical Downlink Control Channel for 3GPP Massive Machine Type Communications. *Lecture Notes in Computer Science*, **2019**, 1-25 | 0.9 | 1 |
| 27 | Novel rate matching scheme for downlink control channel in 3GPP massive machine type communications **2018**, | | 4 |
| 26 | A Continuous QoE Evaluation Framework for Video Streaming Over HTTP. *IEEE Transactions on Circuits and Systems for Video Technology*, **2018**, 28, 3236-3250 | 6.4 | 22 |
| 25 | Resource Allocation for CoMP in Cellular Networks With Base Station Sleeping. *IEEE Access*, **2018**, 6, 12620-12633 | 3.9 | 7 |
| 24 | Improved run length limited codes for VLC using dimming control compensation symbols **2018**, | | 5 |
| 23 | A MAC-PHY cross-layer analysis of NB-PLC system in presence of impulsive noise **2018**, | | 2 |
| 22 | Downlink Control Channel Scheduling for 3GPP Narrowband-IoT **2018**, | | 5 |
| 21 | A Novel Detection Technique for a Chipless RFID System Using Quantile Regression. *Electronics (Switzerland)*, **2018**, 7, 409 | 2.6 | 6 |

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|---|---|---|---|
| 20 | Generation of Perfectly DC Balanced Codes for Visible Light Communications **2018**, | | 2 |
| 19 | Closed-form Approximations for Coverage and Rate in a Multi-tier Heterogeneous Network in Nakagami-m Fading **2018**, | | 1 |
| 18 | Low PAPR Coding Scheme for Uniform Illumination in MIMO VLC **2018**, | | 3 |
| 17 | Modeling Continuous Video QoE Evolution: A State Space Approach **2018**, | | 5 |
| 16 | Security Analysis of LTE/SAE Networks Under De-synchronization Attack for Hyper-Erlang Distributed Residence Time. *IEEE Communications Letters*, **2017**, 21, 1055-1058 | 3.8 | 1 |
| 15 | Resource allocation for energy efficient next generation cellular networks. *CSI Transactions on ICT*, **2017**, 5, 179-187 | 0.4 | 1 |
| 14 | A novel RACH mechanism for machine type communications in cellular networks **2017**, | | 4 |
| 13 | Performance comparison of dual connectivity with CoMP in heterogeneous cellular networks **2017**, | | 3 |
| 12 | A linear regression framework for assessing time-varying subjective quality in HTTP streaming **2017** , | | 3 |
| 11 | Power allocation for uniform illumination with stochastic LED arrays. *Optics Express*, **2017**, 25, 8659-8669 | 3.3 | 9 |
| 10 | Energy and Throughput Trade-Offs in Cellular Networks Using Base Station Switching. *IEEE Transactions on Mobile Computing*, **2016**, 15, 364-376 | 4.6 | 23 |
| 9 | Base station switching with CoMP in cellular networks **2016**, | | 3 |
| 8 | eTVSQ based video rate adaptation in cellular networks with Ffair resource allocation **2016**, | | 2 |
| 7 | Energy efficient rate coverage with base station switching and load sharing in cellular networks **2016**, | | 3 |
| 6 | Key exchange protocols for secure Device-to-Device (D2D) communication in 5G **2016**, | | 14 |
| 5 | **2015**, | | 15 |
| 4 | . *IEEE Transactions on Vehicular Technology*, **2014**, 63, 3331-3341 | 6.8 | 22 |
| 3 | WLAN Service Providers' Price Competition with Uncertainty in User Demand. *IEEE Communications Letters*, **2013**, 17, 517-520 | 3.8 | 1 |

# LIST OF PUBLICATIONS

2     Wireless local area network service providers' price competition in presence of heterogeneous user demand. *IET Communications*, **2013**, 7, 2113-2121     1.3

1     Duopoly price competition of WLAN service providers in presence of heterogeneous user demand **2012**,     5