Daniele Tarchi

List of Publications by Year in descending order

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Πλημείε Τλαςμί

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Multi-Objective Computation Sharing in Energy and Delay Constrained Mobile Edge Computing Environments. IEEE Transactions on Mobile Computing, 2021, 20, 2992-3005. | 5.8 | 86 |
| 2 | Adaptive modulation and coding techniques for OFDMA systems. IEEE Transactions on Wireless Communications, 2009, 8, 4876-4883. | 9.2 | 70 |
| 3 | Adaptive subcarrier allocation schemes for wireless ofdma systems in wimax networks. IEEE Journal on Selected Areas in Communications, 2009, 27, 217-225. | 14.0 | 53 |
| 4 | A Unified Urban Mobile Cloud Computing Offloading Mechanism for Smart Cities. , 2017, 55, 30-37. | | 53 |
| 5 | Satellite-enabled LTE systems in LEO constellations. , 2017, , . | | 52 |
| 6 | A broadband wireless communications system for emergency management. IEEE Wireless Communications, 2008, 15, 8-14. | 9.0 | 51 |
| 7 | Centralized and Distributed Architectures for Energy and Delay Efficient Fog Network-Based Edge Computing Services. IEEE Transactions on Green Communications and Networking, 2019, 3, 250-263. | 5.5 | 50 |
| 8 | On the Design of Federated Learning in Latency and Energy Constrained Computation Offloading Operations in Vehicular Edge Computing Systems. IEEE Transactions on Vehicular Technology, 2022, 71, 2041-2057. | 6.3 | 47 |
| 9 | The Need of Multidisciplinary Approaches and Engineering Tools for the Development and Implementation of the Smart City Paradigm. Proceedings of the IEEE, 2018, 106, 738-760. | 21.3 | 42 |
| 10 | Cognitive radio scenarios for satellite communications. , 2015, , 303-336. | | 35 |
| 11 | Capacity Statistics Evaluation for Next Generation Broadband MEO Satellite Systems. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 2344-2358. | 4.7 | 32 |
| 12 | An Energy and Delay-Efficient Partial Offloading Technique for Fog Computing Architectures. , 2017, , . | | 31 |
| 13 | Optimal auction for delay and energy constrained task offloading in mobile edge computing. Computer Networks, 2020, 183, 107527. | 5.1 | 30 |
| 14 | Future trends in broadband satellite communications: information centric networks and enabling technologies. International Journal of Satellite Communications and Networking, 2015, 33, 473-490. | 1.8 | 29 |
| 15 | Cognitive approaches to enhance spectrum availability for satellite systems. International Journal of Satellite Communications and Networking, 2017, 35, 407-442. | 1.8 | 29 |
| 16 | Next generation grids and wireless communication networks: towards a novel integrated approach. Wireless Communications and Mobile Computing, 2009, 9, 445-467. | 1.2 | 28 |
| 17 | Computation Offloading in Heterogeneous Vehicular Edge Networks: On-Line and Off-Policy Bandit Solutions. IEEE Transactions on Mobile Computing, 2022, 21, 4233-4248. | 5.8 | 25 |
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18 Technical Challenges for Cognitive Radio Application in Satellite Communications. , 2014, , .

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Quality of Service Management in IEEE 802.16 Wireless Metropolitan Area Networks. , 2006, , . | | 23 |
| 20 | Energy efficient routing algorithms for application to agro-food wireless sensor networks. , 0, , . | | 22 |
| 21 | Adaptive Subcarrier Allocation Algorithms in Wireless OFDMA Systems. , 2008, , . | | 22 |
| 22 | A partial offloading technique for wireless mobile cloud computing in smart cities. , 2014, , . | | 22 |
| 23 | Impact of Interdisciplinary Research on Planning, Running, and Managing Electromobility as a Smart Grid Extension. IEEE Access, 2015, 3, 2281-2305. | 4.2 | 22 |
| 24 | An interference estimation technique for Satellite cognitive radio systems. , 2015, , . | | 22 |
| 25 | Energy Efficient Uplink Transmission in Cooperative mmWave NOMA Networks With Wireless Power Transfer. IEEE Transactions on Vehicular Technology, 2022, 71, 391-405. | 6.3 | 22 |
| 26 | A neural network for constrained optimization with application to CDMA communication systems. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2003, 50, 484-487. | 2.2 | 21 |
| 27 | A novel communication infrastructure for emergency management: the In.Sy.Eme. vision. Wireless Communications and Mobile Computing, 2010, 10, 1672-1681. | 1.2 | 20 |
| 28 | An Energy-Aware Offloading Clustering Approach (EAOCA) in fog computing. , 2017, , . | | 20 |
| 29 | An energy harvesting solution for computation offloading in Fog Computing networks. Computer Communications, 2020, 160, 577-587. | 5.1 | 19 |
| 30 | Overview of Distributed Machine Learning Techniques for 6G Networks. Algorithms, 2022, 15, 210. | 2.1 | 19 |
| 31 | A link adaptation strategy for QoS support in IEEE 802.11e-based WLANs. , 0, , . | | 17 |
| 32 | Efficient Adaptive Modulation and Coding Techniques for WiMAX Systems. , 2008, , . | | 17 |
| 33 | Statistical Modeling of Spectrum Sensing Energy in Multi-Hop Cognitive Radio Networks. IEEE Signal Processing Letters, 2015, 22, 356-360. | 3.6 | 17 |
| 34 | Machine Learning for Radio Resource Management in Multibeam GEO Satellite Systems. Electronics (Switzerland), 2022, 11, 992. | 3.1 | 15 |
| 35 | QoS provisioning in GEO satellite with onboard processing using predictor algorithms. IEEE Wireless Communications, 2005, 12, 21-27. | 9.0 | 14 |
| 36 | Bridging solutions for a heterogeneous WiMAX-WiFi scenario. Journal of Communications and Networks, 2006, 8, 369-377. | 2.6 | 14 |

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|----|---|-----|-----------|
| 37 | Supporting Mobile Cloud Computing in Smart Cities via Randomized Algorithms. IEEE Systems Journal, 2018, 12, 1598-1609. | 4.6 | 14 |
| 38 | Mobile Edge Computing Partial Offloading Techniques for Mobile Urban Scenarios. , 2018, , . | | 14 |
| 39 | Convolutional Neural Networks for Flexible Payload Management in VHTS Systems. IEEE Systems Journal, 2021, 15, 4675-4686. | 4.6 | 14 |
| 40 | Open-Source MQTT-Based End-to-End IoT System for Smart City Scenarios. Future Internet, 2022, 14, 57. | 3.8 | 14 |
| 41 | A cluster based computation offloading technique for mobile cloud computing in smart cities. , 2016, , | | 13 |
| 42 | Adaptive coding and modulation techniques for next generation hand-held mobile satellite communications. , 2013, , . | | 12 |
| 43 | A network operator-biased approach for multi-service network function placement in a 5G network slicing architecture. Computer Networks, 2021, 201, 108598. | 5.1 | 12 |
| 44 | An Optimized Resource Allocation Scheme Based on a Multidimensional Multiple-Choice Approach with Reduced Complexity. , 2011, , . | | 11 |
| 45 | Proposal of a cognitive based MAC protocol for M2M environments. , 2013, , . | | 11 |
| 46 | An energy detector based radio environment mapping technique for cognitive satellite systems. , 2014, , | | 11 |
| 47 | Agile optimization for a realâ€ŧime facility location problem in Internet of Vehicles networks. Networks, 0, , . | 2.7 | 11 |
| 48 | A Real-Time Energy-Saving Mechanism in Internet of Vehicles Systems. IEEE Access, 2021, 9, 157842-157858. | 4.2 | 11 |
| 49 | A MAC technique for CDMA based ad-hoc networks. , 0, , . | | 10 |
| 50 | Impulse noise mitigation techniques for xDSL systems in a real environment. IEEE Transactions on Consumer Electronics, 2010, 56, 2106-2114. | 3.6 | 10 |
| 51 | A simheuristic algorithm for video streaming flows optimisation with QoS threshold modelled as a stochastic single-allocation <i>p</i> -hub median problem. Journal of Simulation, 2022, 16, 480-493. | 1.5 | 10 |
| 52 | Cooperative Multi-Agent Deep Reinforcement Learning for Resource Management in Full Flexible VHTS Systems. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 335-349. | 7.9 | 10 |
| 53 | Medium access control protocol for CDMA ad hoc networks. Electronics Letters, 2004, 40, 1131. | 1.0 | 9 |
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54 Cognitive hybrid satellite-terrestrial systems. , 2011, , .

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|----|--|-----|-----------|
| 55 | Adaptive coding and modulation techniques for mobile satellite communications: A state estimation approach. , 2012, , . | | 9 |
| 56 | Cognitive Radio based Smart Grid Networks. , 2013, , . | | 9 |
| 57 | A user-satisfaction based offloading technique for smart city applications. , 2014, , . | | 9 |
| 58 | Perspectives for present and future CDMA-based communications systems. , 2005, 43, 95-100. | | 8 |
| 59 | Novel link adaptation for TETRA cellular systems. International Journal of Communication Systems, 2009, 22, 483-501. | 2.5 | 8 |
| 60 | A Novel Cognitive Networking Scenario for IEEE 802.16 Networks. , 2009, , . | | 8 |
| 61 | A Novel Routing Algorithm for Mobile Pervasive Computing. , 2010, , . | | 8 |
| 62 | Spectrum awareness and exploitation for Cognitive Radio Satellite Communications. , 2015, , . | | 8 |
| 63 | A control and data plane split approach for partial offloading in mobile fog networks. , 2018, , . | | 8 |
| 64 | Towards a Novel Air–Ground Intelligent Platform for Vehicular Networks: Technologies, Scenarios, and Challenges. Smart Cities, 2021, 4, 1469-1495. | 9.4 | 8 |
| 65 | A Neural Network-Based Blind Multiuser Receiver for DS-CDMA Communication Systems. Wireless Personal Communications, 2003, 27, 195-213. | 2.7 | 7 |
| 66 | A priority based admission control strategy for WCDMA systems. , 0, , . | | 7 |
| 67 | Adaptive scheduling algorithms for multimedia traffic in wireless OFDMA systems. Physical Communication, 2009, 2, 228-234. | 2.1 | 7 |
| 68 | Performance improvement techniques for the DVBâ€RCS2 return link air interface. International Journal of Satellite Communications and Networking, 2015, 33, 371-390. | 1.8 | 7 |
| 69 | Smart meters density effects on the number of collectors in a Smart Grid. , 2015, , . | | 7 |
| 70 | System capacity evaluation of DVB-S2X based medium earth orbit satellite network operating at Ka band. , 2016, , . | | 7 |
| 71 | Extending the Usable Ka Band Spectrum for Satellite Communications: The CoRaSat Project. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 119-132. | 0.3 | 7 |
| 72 | Adaptive Modulation in Wireless OFDMA Systems with Finite State Modeling. , 2007, , . | | 6 |

Adaptive Modulation in Wireless OFDMA Systems with Finite State Modeling. , 2007, , . 72

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Efficient scheduling techniques for high data-rate wireless personal area networks. International Journal of Sensor Networks, 2007, 2, 128. | 0.4 | 6 |
| 74 | Cognitive Radio for Ka Band Satellite Communications. , 2014, , . | | 6 |
| 75 | Adaptive network coding schemes for satellite communications. , 2016, , . | | 6 |
| 76 | Stochastic Optimization of Cognitive Networks. IEEE Transactions on Green Communications and Networking, 2017, 1, 40-58. | 5.5 | 6 |
| 77 | Gateway selection and clustering in multiâ€interface wireless mesh networks considering network reliability and traffic. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3215. | 3.9 | 6 |
| 78 | A Cost Function Based Prioritization Method for Smart Grid Communication Network. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 16-24. | 0.3 | 6 |
| 79 | Supervised Machine Learning for Power and Bandwidth Management in VHTS Systems. , 2020, , . | | 6 |
| 80 | Dynamic SIR based admission control algorithm for 3G wireless networks. , 0, , . | | 5 |
| 81 | A neural network approach to MMSE receivers in a DS-CDMA multipath fading environment. IEEE Transactions on Communications, 2006, 54, 778-782. | 7.8 | 5 |
| 82 | An M2M cognitive MAC protocol for overlaid OFDMA environments. Transactions on Emerging Telecommunications Technologies, 2017, 28, e2955. | 3.9 | 5 |
| 83 | On-Demand Service Deployment Strategies for Fog-as-a-Service Scenarios. IEEE Communications Letters, 2021, 25, 1500-1504. | 4.1 | 5 |
| 84 | A Fog Computing Orchestrator Architecture With Service Model Awareness. IEEE Transactions on Network and Service Management, 2022, 19, 2131-2147. | 4.9 | 5 |
| 85 | Zero-Energy Computation Offloading with Simultaneous Wireless Information and Power Transfer for Two-Hop 6G Fog Networks. Energies, 2022, 15, 1632. | 3.1 | 5 |
| 86 | Multiuser interference mitigation in multipath fading channels using a neural network based blind receiver. , 0, , . | | 4 |
| 87 | An efficient soft admission control technique for wireless communications. , 2003, , . | | 4 |
| 88 | Adaptive Scheduling Algorithms for Multimedia Traffic in Wireless OFDMA Systems. , 2008, , . | | 4 |
| 89 | The communication infrastructure for emergency management. , 2009, , . | | 4 |
| 90 | Reliability of adaptive transmission in state-based channels for Land Mobile Satellite communications. | | 4 |

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| # | Article | IF | CITATIONS |
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| 91 | Spectrum awareness techniques for 5G satellite communications. , 2015, , . | | 4 |
| 92 | Physical layer aware adaptive network coding schemes for satellite communications. International Journal of Satellite Communications and Networking, 2017, 35, 537-549. | 1.8 | 4 |
| 93 | An Evolutionary-Based Algorithm for Smart-Living Applications Placement in Fog Networks. , 2019, , . | | 4 |
| 94 | A MAC layer traffic-priority management technique in CDMA based ad-hoc networks. , 2005, , . | | 3 |
| 95 | Multimedia traffic management at MAC layer in IEEE 802.15.3a personal area networks. , 0, , . | | 3 |
| 96 | Proposal of a Fixed Communication System Sharing the Bandwidth of an Existing Personal Communication Network. IEEE Transactions on Vehicular Technology, 2008, 57, 180-187. | 6.3 | 3 |
| 97 | On the Ranging and Scheduling of Data Traffic in OFDMA Mobile Environments. , 2008, , . | | 3 |
| 98 | Performance evaluation of the MAC protocol in IEEE 802.16 systems with data and VoiP traffic scheduling. Wireless Communications and Mobile Computing, 2009, 9, 35-46. | 1.2 | 3 |
| 99 | Wireless Communication Protocols for Distributed Computing Environments. , 2011, , . | | 3 |
| 100 | Robust SC-FDMA subcarrier mapping for non-linear channels. , 2014, , . | | 3 |
| 101 | Genetic inspired scheduling algorithm for cognitive satellite systems. , 2016, , . | | 3 |
| 102 | A channel state-driven ACM algorithm for mobile satellite communications. International Journal of Satellite Communications and Networking, 2016, 34, 787-807. | 1.8 | 3 |
| 103 | Energy Efficient Adaptive Network Coding Schemes for Satellite Communications. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 202-212. | 0.3 | 3 |
| 104 | Network Coding Channel Virtualization Schemes for Satellite Multicast Communications. , 2017, , . | | 3 |
| 105 | Supervised machine learning for power and bandwidth management in very high throughput satellite systems. International Journal of Satellite Communications and Networking, 0, , . | 1.8 | 3 |
| 106 | DSP implementation of a neural network based blind multiuser receiver for DS-CDMA communication systems. , 0, , . | | 2 |
| 107 | An advanced admission control algorithm based on SIR estimation for CDMA wireless systems. , 0, , . | | 2 |
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108 DiffServ on-board satellite switching based on cellular neural networks. , 2004, , .

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| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | Adaptive Modulation Algorithms based on Finite State Modeling in Wireless OFDMA Systems. , 2007, , . | | 2 |
| 110 | Analysis and comparison of scheduling techniques for a BWA OFDMA mobile system. Wireless Communications and Mobile Computing, 2010, 10, 888-898. | 1.2 | 2 |
| 111 | An integrated communication-computing solution in emergency management. , 2010, , . | | 2 |
| 112 | Analysis and design of a TETRA-DMO and IEEE 802.11 integrated network. , 2010, , . | | 2 |
| 113 | A joint communication and computing resource management scheme for pervasive grid networks. Wireless Communications and Mobile Computing, 2013, 13, 1309-1323. | 1.2 | 2 |
| 114 | Analysis of a State Based Approach for Adaptive Coding and Modulation in Mobile Satellite Environments. , 2013, , . | | 2 |
| 115 | Detection and Mitigation of Impulsive Interference on OFDM Signals Based on Spectrum Sensing, Blanking and Symbol Retransmission. Wireless Personal Communications, 2014, 77, 2631-2647. | 2.7 | 2 |
| 116 | Beam pattern allocation strategies for satellite cognitive radio systems. , 2015, , . | | 2 |
| 117 | Performance Evaluation of DVB-S2X Based MEO Satellite Networks Operating at Q Band. , 2016, , . | | 2 |
| 118 | Android-based Implementation of a Fog Computing and Networking Environment. , 2019, , . | | 2 |
| 119 | On the Feasibility of Interference Estimation Techniques in Cognitive Satellite Environments with Impairments. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 133-146. | 0.3 | 2 |
| 120 | Using a Cost Function to Choose the Best Communication Technology for Fulfilling the Smart Meters Communication Requirements. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 33-42. | 0.3 | 2 |
| 121 | Advanced Technologies in Smart Cities. Energies, 2022, 15, 4764. | 3.1 | 2 |
| 122 | Assessment of local topographic maps obtained by ground-based SAR interferometry. , 0, , . | | 1 |
| 123 | Performance evaluation of an efficient fixed microwave communication system to be added to an operating UMTS network. , 0, , . | | 1 |
| 124 | An efficient diffserv switch for satellite communication systems based on cellular neural networks. , 2003, , . | | 1 |
| 125 | A Bayesian technique for terrain mapping using multi-frequency ground based interferometric SAR systems. , 0, , . | | 1 |
| 126 | Adaptive rate admission control for DS-CDMA cellular systems. , 0, , . | | 1 |

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|-----|--|-----|-----------|
| 127 | Multimedia Traffic Management in IEEE 802.15.3a Wireless Personal Area Networks. , 2006, , . | | 1 |
| 128 | Analysis of a Token Based MAC Protocol for OFDMA Cognitive Radio Environments. , 2013, , . | | 1 |
| 129 | Feasibility of Energy Management Techniques for Ultra-low Power M2M SatCom Terminals. , 2018, , . | | 1 |
| 130 | A reliable, secure, and energy efficient smart grid node allocation algorithm for heterogeneous network scenarios. International Journal of Communication Systems, 2018, 31, e3799. | 2.5 | 1 |
| 131 | Computation Offloading Decision Bounds in SWIPT-Based Fog Networks. , 2019, , . | | 1 |
| 132 | Density-Aware Smart Grid Node Allocation in Heterogeneous Radio Access Technology Environments. , 0, , . | | 1 |
| 133 | A Fully Reconfigurable Approach to Emergency Management. International Journal of Adaptive Resilient and Autonomic Systems, 2013, 4, 80-100. | 0.3 | 1 |
| 134 | Proposal of an advanced MMSE multiuser receiver for a DS-CDMA environment using neural networks. , 0, , . | | 0 |
| 135 | A novel MAC technique for ad-hoc CDMA networks. , 0, , . | | 0 |
| 136 | The Role of WiMAX Technology in Distributed Wide Area Monitoring Applications. , 0, , 129-143. | | 0 |
| 137 | Downlink cross-layer scheduling strategies for long-term evolution and long-term evolution-advanced systems. Wireless Communications and Mobile Computing, 2015, 15, 1234-1246. | 1.2 | 0 |
| 138 | Workshop message: 5GB2P 2016. , 2016, , . | | 0 |
| 139 | Special issue on " <scp>C</scp> ognitive <scp>R</scp> adio and <scp>N</scp> etworks for <scp>S</scp> atellite and <scp>S</scp> pace <scp>C</scp> ommunications― International Journal of Satellite Communications and Networking, 2017, 35, 377-378. | 1.8 | 0 |
| 140 | FOG-oriented Joint Computing and Networking: the GAUChO Project Vision. , 2018, , . | | 0 |
| 141 | Cognitive Radio Techniques for M2M Environments. Advances in Wireless Technologies and Telecommunication Book Series, 2015, , 909-927. | 0.4 | 0 |