List of Publications by Year in descending order

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CHIADA DETDIOLI

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Person Re-Identification Through Wi-Fi Extracted Radio Biometric Signatures. IEEE Transactions on Information Forensics and Security, 2022, 17, 1145-1158. | 4.5 | 13 |
| 2 | Forward-looking sonar image compression by integrating keypoint clustering and morphological skeleton. Multimedia Tools and Applications, 2021, 80, 1625-1639. | 2.6 | 4 |
| 3 | A Channel-Aware Adaptive Modem for Underwater Acoustic Communications. IEEE Access, 2021, 9, 76340-76353. | 2.6 | 14 |
| 4 | Localizing Autonomous Underwater Vehicles: Experimental Evaluation of a Long Baseline Method. , 2021, , . | | 5 |
| 5 | RUARP: Reliable Underwater Acoustic Routing Protocol for big data transmissions with low bitrate capabilities. , 2021, , . | | 0 |
| 6 | Wake-up radio-based data forwarding for green wireless networks. Computer Communications, 2020, 160, 172-185. | 3.1 | 8 |
| 7 | MARLIN-Q: Multi-modal communications for reliable and low-latency underwater data delivery. Ad Hoc Networks, 2019, 82, 134-145. | 3.4 | 28 |
| 8 | The Internet of Underwater Things. , 2019, , . | | 10 |
| 9 | The Impact of External Interference on RFID Anti-Collision Protocols. IEEE Networking Letters, 2019, 1, 76-79. | 1.5 | 6 |
| 10 | FLUMO: FLexible Underwater MOdem. , 2019, , . | | 5 |
| 11 | CARMA: Channel-Aware Reinforcement Learning-Based Multi-Path Adaptive Routing for Underwater Wireless Sensor Networks. IEEE Journal on Selected Areas in Communications, 2019, 37, 2634-2647. | 9.7 | 69 |
| 12 | The Diver System: Multimedia Communication and Localization Using Underwater Acoustic Networks. , 2019, , . | | 12 |
| 13 | Enabling the Mobile IoT: Wake-up Unmanned Aerial Systems for Long-Lived Data Collection. , 2019, , . | | 4 |
| 14 | Feasibility Study for Authenticated Key Exchange Protocols on Underwater Acoustic Sensor Networks. , 2019, , . | | 3 |
| 15 | Performance Evaluation of Underwater Medium Access Control Protocols: At-Sea Experiments. IEEE Journal of Oceanic Engineering, 2018, 43, 547-556. | 2.1 | 16 |
| 16 | Path Finding for Maximum Value of Information in Multi-Modal Underwater Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2018, 17, 404-418. | 3.9 | 103 |
| 17 | A Comparative Performance Evaluation of Wake-Up Radio-Based Data Forwarding for Green Wireless Networks. , 2018, , . | | 5 |
| 18 | An autonomous underwater vehicle and SUNSET to bridge underwater networks composed of multi-vendor modems. Annual Reviews in Control, 2018, 46, 295-303. | 4.4 | 5 |

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|----|---|-----|-----------|
| 19 | Harnessing HyDRO. , 2018, , . | | 20 |
| 20 | PrIME: Priority-based tag identification in mobile RFID systems. Computer Communications, 2017, 108, 64-77. | 3.1 | 1 |
| 21 | Low-Cost Standard Signatures for Energy-Harvesting Wireless Sensor Networks. Transactions on Embedded Computing Systems, 2017, 16, 1-23. | 2.1 | 16 |
| 22 | Long lasting underwater wireless sensors network for water quality monitoring in fish farms. , 2017, , . | | 24 |
| 23 | EVERUN., 2017,,. | | 5 |
| 24 | Wake-Up Radio-Enabled Routing for Green Wireless Sensor Networks. , 2017, , . | | 8 |
| 25 | HELIOS: Outsourcing of Security Operations in Green Wireless Sensor Networks. , 2017, , . | | 2 |
| 26 | MANgO: Federated world Model using an underwater Acoustic NetwOrk. , 2017, , . | | 0 |
| 27 | Securing Underwater Communications. , 2017, , . | | 8 |
| 28 | Finding MARLIN: Exploiting multi-modal communications for reliable and low-latency underwater networking. , 2017, , . | | 32 |
| 29 | Enabling cooperation and networking in heterogeneous underwater networks composed of multi-vendor vehicles and modems. , 2017, , . | | 3 |
| 30 | Cooperation and networking in an underwater network composed by heterogeneous assets. , 2016, , . | | 6 |
| 31 | OptoCOMM and SUNSET to enable large data offloading in Underwater Wireless Sensor Networks. , 2016, , . | | 2 |
| 32 | CTP-WUR: The collection tree protocol in wake-up radio WSNs for critical applications. , 2016, , . | | 26 |
| 33 | Cooperation of coordinated teams of Autonomous Underwater Vehicles**This work was supported by Office of Naval Research Global (ONRG) NICOP N62909-14-1-N259 grant and ONR 0601153N grant IFAC-PapersOnLine, 2016, 49, 88-93. | 0.5 | 8 |
| 34 | Online Energy Harvesting Prediction in Environmentally Powered Wireless Sensor Networks. IEEE Sensors Journal, 2016, 16, 6793-6804. | 2.4 | 86 |
| 35 | Counteracting Denial-of-Sleep Attacks in Wake-Up-Radio-Based Sensing Systems. , 2016, , . | | 18 |
| 36 | Clock synchronization and ranging estimation for control and cooperation of multiple UUVs. , 2016, , . | | 13 |

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| 37 | A self-adaptive protocol stack for Underwater Wireless Sensor Networks. , 2016, , . | | 16 |
| 38 | R-CARP., 2015,,. | | 11 |
| 39 | A Reinforcement Learning-based Data-Link Protocol for Underwater Acoustic Communications. , 2015, , | | 13 |
| 40 | First in-field experiments with a "bilingual" underwater acoustic modem supporting the JANUS standard. , 2015, , . | | 22 |
| 41 | SecFUN: Security framework for underwater acoustic sensor networks. , 2015, , . | | 44 |
| 42 | Energy Efficient COGnitive-MAC for Sensor Networks Under WLAN Co-existence. IEEE Transactions on Wireless Communications, 2015, 14, 4075-4089. | 6.1 | 12 |
| 43 | Security as a CoAP resource: An optimized DTLS implementation for the IoT. , 2015, , . | | 67 |
| 44 | Adaptive Rectifier Driven by Power Intake Predictors for Wind Energy Harvesting Sensor Networks. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 471-482. | 3.7 | 57 |
| 45 | Throughput-Optimal Cross-Layer Design for Cognitive Radio Ad Hoc Networks. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 2599-2609. | 4.0 | 23 |
| 46 | The SUNSET framework for simulation, emulation and at-sea testing of underwater wireless sensor networks. Ad Hoc Networks, 2015, 34, 224-238. | 3.4 | 101 |
| 47 | CARP: A Channel-aware routing protocol for underwater acoustic wireless networks. Ad Hoc Networks, 2015, 34, 92-104. | 3.4 | 149 |
| 48 | Energy efficient interference-aware routing and scheduling in underwater sensor networks. , 2014, , . | | 16 |
| 49 | Sensor Mission Assignment in Rechargeable Wireless Sensor Networks. ACM Transactions on Sensor Networks, 2014, 10, 1-39. | 2.3 | 21 |
| 50 | The SUNRISE GATE: Accessing the SUNRISE federation of facilities to test solutions for the Internet of Underwater Things. , 2014, , . | | 31 |
| 51 | SUNRISE project: Porto university testbed. , 2014, , . | | 14 |
| 52 | Spectral Density Estimation of Ship-generated Underwater Acoustic Noise. , 2014, , . | | 0 |
| 53 | Channel replay-based performance evaluation of protocols for underwater routing. , 2014, , . | | 14 |
| 54 | ALBA-R: Load-Balancing Geographic Routing Around Connectivity Holes in Wireless Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 529-539. | 4.0 | 87 |

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| 55 | A Novel Wake-Up Receiver with Addressing Capability for Wireless Sensor Nodes. , 2014, , . | | 25 |
| 56 | Maximizing the value of sensed information in underwater wireless sensor networks via an autonomous underwater vehicle. , 2014, , . | | 70 |
| 57 | A detailed analytical and simulation study of geographic random forwarding. Wireless Communications and Mobile Computing, 2013, 13, 916-934. | 0.8 | 7 |
| 58 | Energy-harvesting WSNs for structural health monitoring of underground train tunnels. , 2013, , . | | 3 |
| 59 | Energy-harvesting WSNs for structural health monitoring of underground train tunnels. , 2013, , . | | 5 |
| 60 | A multi-band Noise-aware MAC protocol for underwater acoustic sensor networks. , 2013, , . | | 6 |
| 61 | Scheduling data transmissions of underwater sensor nodes for maximizing value of information. , 2013, , . | | 24 |
| 62 | AGREE: exploiting energy harvesting to support data-centric access control in WSNs. Ad Hoc Networks, 2013, 11, 2625-2636. | 3.4 | 31 |
| 63 | IRIS: Integrated data gathering and interest dissemination system for wireless sensor networks. Ad Hoc Networks, 2013, 11, 654-671. | 3.4 | 26 |
| 64 | Structural health monitoring in an underground construction site. , 2013, , . | | 1 |
| 65 | Time synchronization and localization for underwater acoustic sensor networks with the SUNSET framework. , 2013, , . | | 1 |
| 66 | Adaptive cross-layer routing for underwater acoustic sensor networks with the SUNSET framework. , 2013, , . | | 0 |
| 67 | Improving energy predictions in EH-WSNs with Pro-Energy-VLT. , 2013, , . | | 6 |
| 68 | SUNSET. , 2013, , . | | 5 |
| 69 | Introducing the MagoNode platform. , 2013, , . | | 1 |
| 70 | SUNSET version 2.0. , 2013, , . | | 37 |
| 71 | GreenCastalia. , 2013, , . | | 48 |
| 72 | Investigation of Underwater Acoustic Networking Enabling the Cooperative Operation of Multiple Heterogeneous Vehicles. Marine Technology Society Journal, 2013, 47, 43-58. | 0.3 | 30 |

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| 73 | A scalable analytical framework for deriving optimum scheduling and routing in underwater sensor networks. , 2012, , . | | 10 |
| 74 | Modeling and estimation of partially observed WLAN activity for cognitive WSNs. , 2012, , . | | 7 |
| 75 | Implementation of an underwater acoustic network using multiple heterogeneous vehicles. , 2012, , . | | 12 |
| 76 | A study on channel dynamics representation and its effects on the performance of routing in underwater networks. , 2012, , . | | 4 |
| 77 | Fast identification of mobile RFID tags. , 2012, , . | | 8 |
| 78 | Goodput maximization in opportunistic spectrum access radio links with imperfect spectrum sensing and fec-based packet protection. , 2012, , . | | 0 |
| 79 | Optimized Packet Size Selection in Underwater Wireless Sensor Network Communications. IEEE Journal of Oceanic Engineering, 2012, 37, 321-337. | 2.1 | 57 |
| 80 | CO2Net: A marine monitoring system for CO <inf>2</inf> leakage detection. , 2012, , . | | 10 |
| 81 | Hands on IRIS: Lessons learned from implementing a cross layer protocol stack for WSNs. , 2012, , . | | 4 |
| 82 | Channel-aware routing for underwater wireless networks. , 2012, , . | | 45 |
| 83 | Pro-Energy: A novel energy prediction model for solar and wind energy-harvesting wireless sensor networks. , 2012, , . | | 149 |
| 84 | Sensor activation and radius adaptation (SARA) in heterogeneous sensor networks. ACM Transactions on Sensor Networks, 2012, 8, 1-34. | 2.3 | 111 |
| 85 | CLAM — Collaborative embedded networks for submarine surveillance: An overview. , 2011, , | | 12 |
| 86 | Performance evaluation of underwater MAC protocols: From simulation to at-sea testing. , 2011, , . | | 41 |
| 87 | Wireless sensor networks for spectrum sensing to support opportunistic spectrum access networks: Protocol design and fundamental trade-offs. , 2011, , . | | 3 |
| 88 | From underwater simulation to at-sea testing using the ns-2 network simulator. , 2011, , . | | 29 |
| 89 | Anticollision Protocols for Single-Reader RFID Systems: Temporal Analysis and Optimization. IEEE Transactions on Mobile Computing, 2011, 10, 267-279. | 3.9 | 123 |
| 90 | On the impact of the environment on MAC and routing in shallow water scenarios. , 2011, , . | | 13 |

CHIARA PETRIOLI

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| 91 | Sensor-mission assignment in wireless sensor networks with energy harvesting. , 2011, , . | | 15 |
| 92 | Cognitive WSN transmission control for energy efficiency under WLAN coexistence. , 2011, , . | | 5 |
| 93 | Coordinated and controlled mobility of multiple sinks for maximizing the lifetime of wireless sensor networks. Wireless Networks, 2011, 17, 759-778. | 2.0 | 63 |
| 94 | Interference cancellation-based RFID tags identification. , 2011, , . | | 8 |
| 95 | Toward optimal cross-layer solutions for cognitive radio wireless networks. , 2010, , . | | 2 |
| 96 | GENESI: Green sEnsor NEtworks for Structural monItoring. , 2010, , . | | 11 |
| 97 | Optimizing network performance through packet fragmentation in multi-hop underwater communications. , 2010, , . | | 14 |
| 98 | Choosing the packet size in multi-hop underwater networks. , 2010, , . | | 39 |
| 99 | Flexible key exchange negotiation for wireless sensor networks. , 2010, , . | | 12 |
| 100 | Multiplexing data and control channels in random access underwater networks. , 2009, , . | | 3 |
| 101 | Optimal Frame Tuning for Aloha Protocols in RFID Networks. , 2009, , . | | 1 |
| 102 | JAMES: JAva test-bed ManagEment System. , 2009, , . | | 2 |
| 103 | ROME: Routing Over Mobile Elements in WSNs. , 2009, , . | | 8 |
| 104 | Performance Analysis of Anti-Collision Protocols for RFID Systems. , 2009, , . | | 23 |
| 105 | BlueFlows: Routing and flow admission in bluetooth PANs. , 2009, , . | | 0 |
| 106 | Controlled sink mobility for prolonging wireless sensor networks lifetime. Wireless Networks, 2008, 14, 831-858. | 2.0 | 332 |
| 107 | Efficiently reconfigurable backbones for wireless sensor networks. Computer Communications, 2008, 31, 668-698. | 3.1 | 19 |
| 108 | Flow-fair Intra-Piconet (Fâ,,"IP) Scheduling for Communications in Personal Area Networks. , 2008, , . | | 1 |

CHIARA PETRIOLI

4

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| 109 | Localization Error-Resilient Geographic Routing for Wireless Sensor Networks. , 2008, , . | | 10 |
| 110 | Dynamic tag estimation for optimizing tree slotted aloha in RFID networks. , 2008, , . | | 23 |
| 111 | A comparative performance evaluation of MAC protocols for underwater sensor networks. , 2008, , . | | 56 |
| 112 | Meditrina:. , 2007, , . | | 0 |
| 113 | An optimization framework for joint sensor deployment, link scheduling and routing in underwater sensor networks. Mobile Computing and Communications Review, 2007, 11, 44-56. | 1.7 | 22 |
| 114 | Managing heterogeneous sensors and actuators in ubiquitous computing environments. , 2007, , . | | 8 |
| 115 | Demonstrating the Resilience of Geographical Routing to Localization Errors. , 2007, , . | | 1 |
| 116 | Fail-Safe Hierarchical Organization for Wireless Sensor Networks. , 2007, , . | | 4 |
| 117 | The Design, Deployment, and Analysis of SignetLab: A Sensor Network Testbed and Interactive Management Tool. , 2007, , . | | 17 |
| 118 | Controlled Vs. Uncontrolled Mobility in Wireless Sensor Networks: Some Performance Insights. Vehicular Technology Conference-Fall (VTC-FALL), Proceedings, IEEE, 2007, , . | 0.0 | 26 |
| 119 | Blue pleiades, a new solution for device discovery and scatternet formation in multi-hop Bluetooth networks. Wireless Networks, 2007, 13, 107-125. | 2.0 | 27 |
| 120 | Localized Techniques for Broadcasting in Wireless Sensor Networks. Algorithmica, 2007, 49, 412-446. | 1.0 | 13 |
| 121 | Dynamic replica placement and traffic redirection in content delivery networks. Performance Evaluation Review, 2007, 35, 66-68. | 0.4 | 12 |
| 122 | Bluetooth Scatternet Formation Performance: Simulations vs. Testbeds. , 2006, , . | | 1 |
| 123 | Localized protocols for ad hoc clustering and backbone formation: a performance comparison. IEEE Transactions on Parallel and Distributed Systems, 2006, 17, 292-306. | 4.0 | 124 |
| 124 | ALBA: An Adaptive Load - Balanced Algorithm for Geographic Forwarding in Wireless Sensor Networks. , 2006, , . | | 20 |
| 125 | A New MILP Formulation and Distributed Protocols for Wireless Sensor Networks Lifetime Maximization. , 2006, , . | | 35 |
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Bluetooth Scatternet Formation and Scheduling: An Integrated Solution. , 2006, , .

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| 127 | WSN19-6: Integrated Data Delivery and Interest Dissemination Techniques for Wireless Sensor Networks. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , . | 0.0 | 5 |
| 128 | BlueMesh: Degree-Constrained Multi-Hop Scatternet Formation for Bluetooth Networks. Mobile Networks and Applications, 2004, 9, 33-47. | 2.2 | 62 |
| 129 | Comparative Performance Evaluation of Scatternet Formation Protocols for Networks of Bluetooth Devices. Wireless Networks, 2004, 10, 197-213. | 2.0 | 47 |
| 130 | Configuring bluestars: multihop scatternet formation for bluetooth networks. IEEE Transactions on Computers, 2003, 52, 779-790. | 2.4 | 116 |
| 131 | EYES – Energy Efficient Sensor Networks. Lecture Notes in Computer Science, 2003, , 198-201. | 1.0 | 12 |
| 132 | Title is missing!. Mobile Networks and Applications, 2001, 6, 207-209. | 2.2 | 8 |
| 133 | Packet management techniques for measurement based end-to-end admission control in IP networks. Journal of Communications and Networks, 2000, 2, 147-156. | 1.8 | 12 |
| 134 | Energy-conserving access protocols for identification networks. IEEE/ACM Transactions on Networking, 1999, 7, 51-59. | 2.6 | 84 |