# Jordi PÃ©rez Romero

## List of Publications by Year
## in descending order

| | | | |
|---|---|---|---|
| 223 papers | 2,958 citations | 489802<br>18 h-index | 406436<br>35 g-index |
| 230 all docs | 230 docs citations | 230 times ranked | 2350 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | 5G for the Support of Public Safety Services. Wireless Personal Communications, 2021, 120, 2321-2348. | 1.8 | 9 |
| 2 | A Multi-Agent Reinforcement Learning Approach for Capacity Sharing in Multi-Tenant Scenarios. IEEE Transactions on Vehicular Technology, 2021, 70, 9450-9465. | 3.9 | 15 |
| 3 | Optimization of Multitenant Radio Admission Control Through a Semi-Markov Decision Process. IEEE Transactions on Vehicular Technology, 2020, 69, 862-875. | 3.9 | 7 |
| 4 | A New Mode Selection and Resource Reuse Strategy for V2X in Future Cellular Networks. , 2020, , . | | 4 |
| 5 | A Novel Approach for Dynamic Capacity Sharing in Multi-tenant Scenarios. , 2020, , . | | 9 |
| 6 | Data Analytics Architectural Framework for Smarter Radio Resource Management in 5G Radio Access Networks. IEEE Communications Magazine, 2020, 58, 98-104. | 4.9 | 7 |
| 7 | Characterization of Radio Access Network Slicing Scenarios With 5G QoS Provisioning. IEEE Access, 2020, 8, 51414-51430. | 2.6 | 17 |
| 8 | Radio Access Network Slicing Strategies at Spectrum Planning Level in 5G and Beyond. IEEE Access, 2020, 8, 79604-79618. | 2.6 | 20 |
| 9 | Design and Experimental Validation of a Software-Defined Radio Access Network Testbed with Slicing Support. Wireless Communications and Mobile Computing, 2019, 2019, 1-17. | 0.8 | 17 |
| 10 | Data Analytics in the 5G Radio Access Network and Its Applicability to Fixed Wireless Access. , 2019, , . | | 5 |
| 11 | Management of Mission Critical Public Safety Applications: the 5G ESSENCE Project. , 2019, , . | | 8 |
| 12 | On the automation of RAN slicing provisioning: solution framework and applicability examples. Eurasip Journal on Wireless Communications and Networking, 2019, 2019, . | 1.5 | 9 |
| 13 | Profit-Based Radio Access Network Slicing for Multi-tenant 5G Networks. , 2019, , . | | 6 |
| 14 | An Analytical Model for Multi-Tenant Radio Access Networks Supporting Guaranteed Bit Rate Services. IEEE Access, 2019, 7, 57651-57662. | 2.6 | 16 |
| 15 | A Cloud-Enabled Small Cell Architecture in 5G Networks for Broadcast/Multicast Services. IEEE Transactions on Broadcasting, 2019, 65, 414-424. | 2.5 | 20 |
| 16 | An Efficient RAN Slicing Strategy for a Heterogeneous Network With eMBB and V2X Services. IEEE Access, 2019, 7, 44771-44782. | 2.6 | 60 |
| 17 | Performance Measurements-Based Estimation of Radio Resource Requirements for Slice Admission Control. , 2019, , . | | 2 |
| 18 | Applicability Domains of Machine Learning in Next Generation Radio Access Networks. , 2019, , . | | 6 |

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| 19 | A New Self-planning Methodology Based on Signal Quality and User Traffic in Wi-Fi Networks. IFIP Advances in Information and Communication Technology, 2019, , 19-30. | 0.5 | 0 |
| 20 | Self-Dimensioning and Planning of Small Cell Capacity in Multitenant 5G Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 4552-4564. | 3.9 | 25 |
| 21 | On 5G Radio Access Network Slicing: Radio Interface Protocol Features and Configuration. , 2018, 56, 184-192. | | 105 |
| 22 | An Efficient Mode Selection for Improving Resource Utilization in Sidelink V2X Cellular Networks. , 2018, , . | | 12 |
| 23 | Monitoring and Analytics for the Optimisation of Cloud Enabled Small Cells. , 2018, , . | | 7 |
| 24 | 5G Framework for automated network adaptation in Mission Critical Services. , 2018, , . | | 6 |
| 25 | Waveform Flexibility in Database-Oriented Cognitive Wireless Systems. , 2018, , . | | 0 |
| 26 | Guaranteed Bit Rate Traffic Prioritisation and Isolation in Multi-tenant Radio Access Networks. , 2018, , . | | 5 |
| 27 | An Experimental Assessment of Channel Selection in Cognitive Radio Networks. IFIP Advances in Information and Communication Technology, 2018, , 78-88. | 0.5 | 2 |
| 28 | On the configuration of radio resource management in a sliced RAN. , 2018, , . | | 14 |
| 29 | On the Automation of RAN Slicing Provisioning and Cell Planning in NG-RAN. , 2018, , . | | 12 |
| 30 | Space/Time Traffic Fluctuations in a Cellular Network: Measurementsâ€™ Analysis and Potential Applications. IFIP Advances in Information and Communication Technology, 2018, , 89-98. | 0.5 | 0 |
| 31 | On Radio Access Network Slicing from a Radio Resource Management Perspective. IEEE Wireless Communications, 2017, 24, 166-174. | 6.6 | 132 |
| 32 | Technology pillars in the architecture of future 5G mobile networks: NFV, MEC and SDN. Computer Standards and Interfaces, 2017, 54, 216-228. | 3.8 | 158 |
| 33 | On implementing RRM/SON in virtualized multi-tenant small cell networks. , 2017, , . | | 1 |
| 34 | On Introducing Knowledge Discovery Capabilities in Cloud-Enabled Small Cells. Communications in Computer and Information Science, 2017, , 680-692. | 0.4 | 0 |
| 35 | On extracting user-centric knowledge for personalised Quality of Service in 5G networks. , 2017, , . | | 2 |
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| 37 | Admission control for multi-tenant Radio Access Networks. , 2017, , . | | 9 |
| 38 | Design aspects for 5G architectures: The SESAME and COHERENT approach. , 2017, , . | | 4 |
| 39 | Self-optimized admission control for multitenant radio access networks. , 2017, , . | | 4 |
| 40 | Application of Radio Environment Maps for Dynamic Broadband Access in TV Bands in Urban Areas. IEEE Access, 2017, 5, 19842-19863. | 2.6 | 19 |
| 41 | Flexible Capacity Sharing in Multi-Tenant Wireless Networks through Fuzzy Neural Controllers. , 2017, , . | | 0 |
| 42 | Implications of Multi-tenancy upon RRM/Self-x Functions Supporting Mobility Control. Communications in Computer and Information Science, 2017, , 657-668. | 0.4 | 2 |
| 43 | Inclusion of â€œSelf-xâ€•Properties in the SESAME-Based Wireless Backhaul for Support of Higher Performance. Communications in Computer and Information Science, 2017, , 716-727. | 0.4 | 0 |
| 44 | Service provisioning and pricing methods in a multi-tenant cloud enabled RAN. , 2016, , . | | 10 |
| 45 | A Belief-Based Decision-Making Framework for Spectrum Selection in Cognitive Radio Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 8283-8296. | 3.9 | 6 |
| 46 | On Learning Mobility Patterns in Cellular Networks. IFIP Advances in Information and Communication Technology, 2016, , 686-696. | 0.5 | 6 |
| 47 | On modeling channel selection in LTE-U as a repeated game. , 2016, , . | | 13 |
| 48 | Enabling technologies and benefits of multi-tenant multi-service 5G Small Cells. , 2016, , . | | 13 |
| 49 | Multi-tenant mobility control in Small Cells as a Service. , 2016, , . | | 2 |
| 50 | Knowledge-based 5G Radio Access Network planning and optimization. , 2016, , . | | 20 |
| 51 | Introducing Mobile Edge Computing Capabilities through Distributed 5G Cloud Enabled Small Cells. Mobile Networks and Applications, 2016, 21, 564-574. | 2.2 | 39 |
| 52 | A Framework for Dynamic Network Architecture and Topology Optimization. IEEE/ACM Transactions on Networking, 2016, 24, 717-730. | 2.6 | 27 |
| 53 | Power-Efficient Resource Allocation in a Heterogeneous Network With Cellular and D2D Capabilities. IEEE Transactions on Vehicular Technology, 2016, 65, 9272-9286. | 3.9 | 41 |
| 54 | Artificial Intelligence-based 5G network capacity planning and operation. , 2015, , . | | 15 |

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| 55 | Technical advances in the design and deployment of future heterogeneous networks. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, . | 1.5 | 2 |
| 56 | Learning-based coexistence for LTE operation in unlicensed bands. , 2015, , . | | 60 |
| 57 | A Robustness Analysis of Learning-Based Coexistence Mechanisms for LTE-U Operation in Non-Stationary Conditions. , 2015, , . | | 7 |
| 58 | Energy and spectral efficiencies tradeâ€off with filter optimisation in multiple access interferenceâ€aware networks. Transactions on Emerging Telecommunications Technologies, 2015, 26, 670-685. | 2.6 | 8 |
| 59 | On the use of radio environment maps for interference management in heterogeneous networks. , 2015, 53, 184-191. | | 67 |
| 60 | On Enhancing Almost Blank Subframes Management for Efficient eICIC in HetNets. , 2015, , . | | 8 |
| 61 | Evaluation of a Belief-based Decision Making in a Real-time Platform for Cognitive Radio Networks. , 2014, , . | | 3 |
| 62 | Novel eICIC scheme for HetNets exploiting jointly the frequency, power and time dimensions. , 2014, , . | | 2 |
| 63 | Energy saving potentials in the radio access through relaying in future networks. , 2014, , . | | 0 |
| 64 | A Rule-Based Solution Search Methodology for Self-Optimization in Cellular Networks. IEEE Communications Letters, 2014, 18, 2189-2192. | 2.5 | 4 |
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| 66 | Small cells deployment in TV White Spaces with neighborhood cooperation. , 2014, , . | | 0 |
| 67 | On the use of Indoor Radio Environment Maps for HetNets Deployment. , 2014, , . | | 6 |
| 68 | A Fittingness Factor-Based Spectrum Management Framework for Cognitive Radio Networks. Wireless Personal Communications, 2013, 72, 1675-1689. | 1.8 | 2 |
| 69 | A testbed platform to demonstrate spectrum selection in opportunistic networks. , 2013, , . | | 0 |
| 70 | Exploiting Knowledge Management for Supporting Multi-Band Spectrum Selection in Non-Stationary Environments. IEEE Transactions on Wireless Communications, 2013, 12, 6228-6243. | 6.1 | 5 |
| 71 | A comparison of different optimisation search methodologies for self-optimisation in wireless cellular networks. , 2013, , . | | 5 |
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| 81 | A solution framework to provide management services for wireless communications in the digital home. , 2012, 50, 132-141. | | 7 |
| 82 | Dynamic cooperator selection in cognitive radio networks. Ad Hoc Networks, 2012, 10, 789-802. | 3.4 | 9 |
| 83 | Applications of Cognitive Radio Networks [From the Guest Editors]. IEEE Vehicular Technology Magazine, 2012, 7, 23-24. | 2.8 | 4 |
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| 86 | Trends in user/society needs and future wireless standards. , 2012, , 5-40. | | 0 |
| 87 | A novel spectrum selection strategy for matching multi-service secondary traffic to heterogeneous primary spectrum opportunities. , 2011, , . | | 4 |
| 88 | Context Discovery Mechanisms for Cognitive Radio. , 2011, , . | | 21 |
| 89 | Intercell Interference Management in OFDMA Networks: A Decentralized Approach Based onReinforcement Learning. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2011, 41, 968-976. | 3.3 | 24 |
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| 91 | System architecture in cognitive radio networks using a radio environment map. , 2011, , . | | 3 |
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| 97 | Spectrum sharing in cognitive radio networks with imperfect sensing: A discrete-time Markov model. Computer Networks, 2010, 54, 2519-2536. | 3.2 | 53 |
| 98 | An Application of Reinforcement Learning for Efficient Spectrum Usage in Next-Generation Mobile Cellular Networks. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2010, 40, 477-484. | 3.3 | 24 |
| 99 | ETSI reconfigurable radio systems: status and future directions on software defined radio and cognitive radio standards. IEEE Communications Magazine, 2010, 48, 78-86. | 4.9 | 125 |
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| 101 | Image Processing Techniques as a Support to Transmitter Positioning Determination in Cognitive Radio Networks. , 2010, , . | | 4 |
| 102 | Reinforcement Learning for Load Management in DiffServ-MPLS Mobile Networks. , 2009, , . | | 2 |
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| 104 | Exploiting the Operating Point in Sensing-Based Opportunistic Spectrum Access Scenarios. , 2009, , . | | 2 |
| 105 | Temporal and Spatial Spectrum Assignment in Next Generation OFDMA Networks through Reinforcement Learning. , 2009, , . | | 3 |
| 106 | On the Applicability of Image Processing Techniques in the Radio Environment Characterisation. , 2009, , . | | 8 |
| 107 | An Analytical Model for the Reverse Link of WCDMA Systems With Repeaters in Nonuniform Traffic Distributions. IEEE Transactions on Vehicular Technology, 2009, 58, 2180-2190. | 3.9 | 2 |
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| 109 | A novel approach to smart multi-cell radio resource management based on load gradient calculations. Wireless Networks, 2009, 15, 709-726. | 2.0 | 1 |
| 110 | Dynamic spectrum assignment in multicell OFDMA networks enabling a secondary spectrum usage. Wireless Communications and Mobile Computing, 2009, 9, 1502-1519. | 0.8 | 10 |
| 111 | Fuzzy Neural Control for Economic-Driven Radio Resource Management in Beyond 3G Networks. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2009, 39, 170-189. | 3.3 | 17 |
| 112 | Distributed spectrum management based on reinforcement learning. , 2009, , . | | 12 |
| 113 | ETSI Reconfigurable Radio Systems â€" Software Defined Radio and Cognitive Radio standards. , 2009, , . | | 5 |
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| 115 | Spectral occupation measurements and blind standard recognition sensor for cognitive radio networks. , 2009, , . | | 40 |
| 116 | A Novel Framework for Dynamic Spectrum Management in MultiCell OFDMA Networks Based on Reinforcement Learning. , 2009, , . | | 8 |
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| 129 | Simulated Annealing-Based Advanced Spectrum Management Methodology for WCDMA Systems. , 2008, , . | | 5 |
| 130 | Inter-operator agreements based on QoS metrics for improved revenue and spectrum efficiency. Electronics Letters, 2008, 44, 303. | 0.5 | 7 |
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| 132 | Advanced Spectrum Management in Multicell OFDMA Networks Enabling Cognitive Radio Usage. , 2008, , . | | 4 |
| 133 | A New OFDMA Scheduler for Delay-Sensitive Traffic Based on Hopfield Neural Networks. Eurasip Journal on Wireless Communications and Networking, 2008, 2008, . | 1.5 | 2 |
| 134 | Radio Resource Management for Heterogeneous Wireless Access. , 2008, , 1-33. | | 5 |
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| 141 | A Novel Metric for Context-Aware RAT Selection in Wireless Multi-Access Systems. , 2007, , . | | 25 |
| 142 | A Generalized Framework for Multi-RAT Scenarios Characterisation. , 2007, , . | | 12 |
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| 144 | A Novel Joint Channel and Queuing-Aware OFDMA Scheduler for Delay Sensitive Traffic. , 2007, , . | | 0 |

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| 145 | An Admission Control Framework Integrating Radio and IP-Transport in 3GPP-based Networks. , 2007, , . | | 0 |
| 146 | RAT Selection in 3GPP-Based Cellular Heterogeneous Networks: From Theory to Practical Implementation. , 2007, , . | | 2 |
| 147 | A Functional End-to-End QoS Architecture Enabling Radio and IP Transport Coordination. , 2007, , . | | 4 |
| 148 | Spectrum Management Methodology for WCDMA Systems Encompassing Uplink and Downlink. , 2007, , . | | 2 |
| 149 | Radio Access Technology Selection enabled by IEEE P1900.4. , 2007, , . | | 4 |
| 150 | Improved Revenue and Radio Resource Usage through Inter-Operator Joint Radio Resource Management. , 2007, , . | | 16 |
| 151 | Operator's RAT Selection Policies Based on the Fittingness Factor Concept. , 2007, , . | | 9 |
| 152 | On the Optimum Traffic Allocation in Heterogeneous CDMA/TDMA Networks. IEEE Transactions on Wireless Communications, 2007, 6, 3170-3174. | 6.1 | 12 |
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| 154 | Development of a Radio Enabler for Reconfiguration Management within the IEEE P1900.4 Working Group. , 2007, , . | | 16 |
| 155 | A novel on-demand cognitive pilot channel enabling dynamic spectrum allocation. , 2007, , . | | 149 |
| 156 | Congestion Control Strategies in Multi-Access Networks. , 2006, , . | | 3 |
| 157 | Dynamic Pricing for Decentralised Rat Selection in Heterogeneous Scenarios. , 2006, , . | | 5 |
| 158 | Enhanced Radio Access Technology Selection Exploiting Path Loss Information. , 2006, , . | | 4 |
| 159 | On WCDMA base station selection criteria. IEEE Communications Letters, 2006, 10, 248-250. | 2.5 | 2 |
| 160 | A Fuzzy Neural JRRM in a Heterogeneous Scenario Supported by Prediction Strategies for Horizontal and Vertical Handovers. , 2006, , . | | 5 |
| 161 | A Framework for JRRM with Resource Reservation and Multiservice Provisioning in Heterogeneous Networks. Mobile Networks and Applications, 2006, 11, 825-846. | 2.2 | 28 |
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| 163 | Network-controlled cell-breathing for capacity improvement in heterogeneous CDMA/TDMA scenarios. , 2006, , . | | 18 |
| 164 | A Novel Frequency Management Methodology for WCDMA using Statistical Coupling Matrices. , 2006, , . | | 2 |
| 165 | A 4-Dimensional Markov Model for the Evaluation of Radio Access Technology Selection Strategies in Multiservice Scenarios. , 2006, , . | | 6 |
| 166 | Network Controlled Cell Breathing in Multi-Service Heterogeneous CDMA/TDMA Scenarios. , 2006, , . | | 10 |
| 167 | A Proposal on Frequency Management Methodologies for WCDMA Systems Using Cell Coupling Matrices. , 2006, , . | | 3 |
| 168 | Hopfield Neural Network - Based Approach for Joint Dynamic Resource Allocation in Heterogeneous Wireless Networks. , 2006, , . | | 10 |
| 169 | WLC05-2: An Economic-Driven Joint Radio Resource Management with User Profile Differentiation in a Beyond 3G Cognitive Network. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , . | 0.0 | 7 |
| 170 | On Deploying Repeaters in CDMA Systems for Traffic Hot-Spots: An Analytical Characterization. , 2006, , . | | 1 |
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| 173 | Cross-layer scheduling strategy for UMTS downlink enhancement. , 2005, 43, S24-S28. | | 24 |
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| 175 | A fuzzy neural joint radio resource management in a multi-cell scenario supporting a multiservice architecture. , 2005, , . | | 2 |
| 176 | A novel approach for multicell load control in W-CDMA. , 2004, , . | | 1 |
| 177 | Analysis of a type II hybrid ARQ strategy in a ds-cdma packet transmission environment. IEEE Transactions on Communications, 2003, 51, 1249-1253. | 4.9 | 8 |
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| 179 | Optimizing statistical uplink admission control for W-CDMA. , 2003, , . | | 3 |
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| 186 | An adaptive ISMA-DS/CDMA MAC protocol for third-generation mobile communications systems. IEEE Transactions on Vehicular Technology, 2001, 50, 1354-1365. | 3.9 | 5 |
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| 190 | Performance analysis of an ISMA CDMA packet data network. , 0, , . | | 4 |
| 191 | A combined polling and ISMA-DS/CDMA protocol to provide QoS in packet mobile communications systems. , 0, , . | | 1 |
| 192 | Packet transmission strategies to provide quality of service in a TDD-TD/CDMA system. , 0, , . | | 3 |
| 193 | A scheduling algorithm for soft-QoS guarantee in 3G systems. , 0, , . | | 0 |
| 194 | Impact of user location in W-CDMA downlink resource allocation. , 0, , . | | 4 |
| 195 | Average and peak interference management in W-CDMA UMTS. , 0, , . | | 2 |
| 196 | Packet scheduling algorithms for interactive and streaming services under QoS guarantee in a CDMA system. , 0, , . | | 15 |
| 197 | Mixing conversational and interactive traffic in the UMTS radio access network. , 0, , . | | 8 |
| 198 | A downlink admission control algorithm for UTRA-FDD. , 0, , . | | 7 |

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| 199 | Power and code shortage in UTRA-FDD downlink dedicated channels. , 0, , . | | 1 |
| 200 | On managing uplink videophone and web browsing traffic in UTRA W-CDMA. , 0, , . | | 0 |
| 201 | Impact of indoor traffic on W-CDMA capacity. , 0, , . | | 1 |
| 202 | Impact of traffic hotspots in 3G W-CDMA networks. , 0, , . | | 5 |
| 203 | On the capacity degradation in W-CDMA uplink/downlink due to indoor traffic. , 0, , . | | 10 |
| 204 | Downlink radio resource management approach for 3G W-CDMA networks. , 0, , . | | 2 |
| 205 | Iterative PIC detection and channel estimation for DS-CDMA 3G communications. , 0, , . | | 0 |
| 206 | A fuzzy-neural based approach for joint radio resource management in a beyond 3G framework. , 0, , . | | 48 |
| 207 | On dimensioning UTRA-FDD downlink shared channel. , 0, , . | | 0 |
| 208 | Interactions among UMTS microcells and macrocells supporting data traffic in a real airport scenario. , 0, , . | | 2 |
| 209 | An analysis of deployment alternatives in a real UMTS scenario to support voice and data traffic. , 0, , . | | 0 |
| 210 | QoS-aware path selection in a B3G system. , 0, , . | | 0 |
| 211 | Common Radio Resource Management: Functional Models and Implementation Requirements. , 0, , . | | 36 |
| 212 | A novel joint radio resource management approach with reinforcement learning mechanisms. , 0, , . | | 33 |
| 213 | Iterative Channel Estimation for MC-CDMA. , 0, , . | | 1 |
| 214 | On Managing Dynamic Traffic Hotspots in WCDMA Networks. , 0, , . | | 0 |
| 215 | An Admission Control Algorithm for WCDMA Considering Mobile Speed and Service Characteristics. , 0, , . | | 1 |
| 216 | (Re)Active Load Control Based on Radio Link Quality for the UMTS/WCDMA Forward Link. , 0, , . | | 0 |

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| 218 | A Location-Aware Resource Reservation Algorithm with User Class Differentiation in WCDMA. , 0, , . | | 0 |
| 219 | A Novel Framework for Robust WCDMA Planning under Changing Spatial Traffic Distributions. , 0, , . | | 1 |
| 220 | On Modelling Spatial Traffic and Service Non-Uniformities in WCDMA Reverse Link. , 0, , . | | 2 |
| 221 | Resource Auctioning Mechanisms in Heterogeneous Wireless Access Networks. , 0, , . | | 26 |
| 222 | Loose and Tight Interworking between Vertical and Horizontal Handovers in Multi-RAT Scenarios. , 0, , . | | 4 |
| 223 | A DRA scheme based on Hopfield Neural Networks Methodology. , 0, , . | | 0 |