



Wireless Networks

The Journal of Mobile Communication, Computation and Information

[Wireless Networks](#) > [Volumes and issues](#) > Volume 26, issue 6

Search within journal

Volume 26, issue 6, August 2020

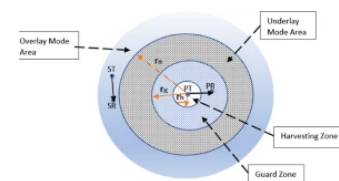
50 articles in this issue

[RETRACTED ARTICLE: Throughput maximization of multichannel allocation mechanism under interference constraint for hybrid overlay/underlay cognitive radio networks with energy harvesting](#)

Hakan Murat Karaca

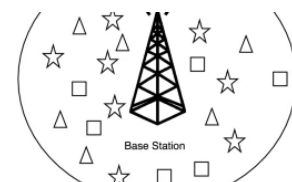
OriginalPaper | Published: 18 March 2020 |

Pages: 3905 - 3928



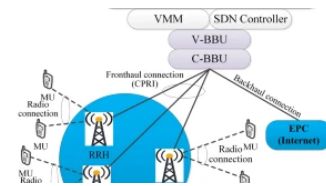
[Fast node cardinality estimation and cognitive MAC protocol design for heterogeneous machine-to-machine networks](#)

Sachin Kadam, Chaitanya S. Raut ... Gaurav S. Kasbekar



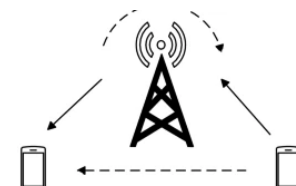
[Performance evaluation of a C-RAN supporting a mixture of random and quasi-random traffic](#)

Iskanter-Alexandros Chousainov, Ioannis Moscholios ...
Michael Logothetis



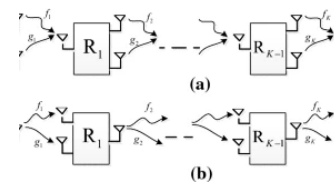
[Queue-aware scheduling in full-duplex wireless networks](#)

Hassan Fawaz, Samer Lahoud & Melhem El Helou



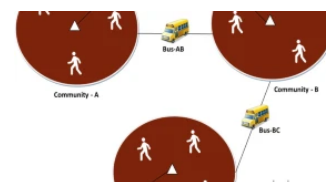
[End-to-end SER of MRT/MRC and SC in multi-hop wireless sensor networks](#)

Haci Ilhan

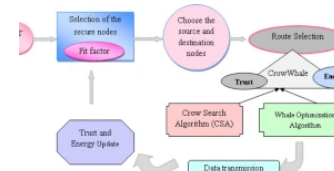


[A cooperative mobile throwbox-based routing protocol for social-aware delay tolerant networks](#)

Malik Muhammad Qirtas, Yasir Faheem & Mubashir
Husain Rehmani



[CrowWhale-ETR: CrowWhale optimization algorithm for energy and trust aware multicast routing in WSN for IoT applications](#)



Dipali K. Shende & S. S. Sonavane

OriginalPaper | Published: 25 March 2020 |

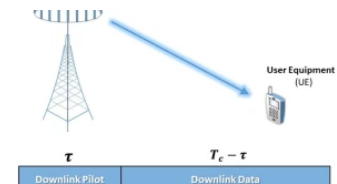
Pages: 4011 - 4029

[Energy efficiency maximization in FDD massive MIMO systems with channel aging](#)

Mona Ahmadabadian, Soheil Khavari Moghaddam & S. Mohammad Razavizadeh

OriginalPaper | Published: 27 March 2020 |

Pages: 4031 - 4044

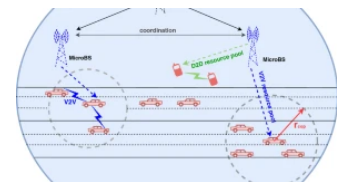


[Context aware autonomous resource selection and Q-learning based power control strategy for enhanced cooperative awareness in LTE-V2V communication](#)

Sandeepika Sharma & Brahmjit Singh

OriginalPaper | Published: 28 March 2020 |

Pages: 4045 - 4060

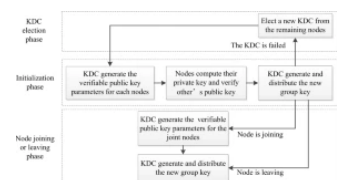


[A centralized key management scheme for space network with resistance of nonlinear channel noise](#)

Jie Liu, Xiaojun Tong ... Jing Ma

OriginalPaper | Published: 31 March 2020 |

Pages: 4061 - 4078

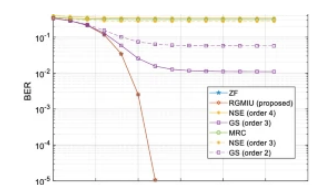


[Performance evaluation and implementation complexity analysis framework for ZF based linear massive MIMO detection](#)

Messaoud Ahmed Ouameur, Daniel Massicotte ... Reno Girard

OriginalPaper | Published: 01 April 2020 |

Pages: 4079 - 4093

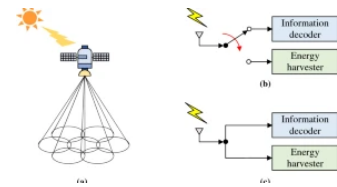


[Resource allocation of simultaneous wireless information and power transmission of multi-beam solar power satellites in space–terrestrial integrated networks for 6G wireless systems](#)

Chun-Cheng Lin, Nai-Wei Su ... I-Hsin Tsai

OriginalPaper | Published: 03 April 2020 |

Pages: 4095 - 4107

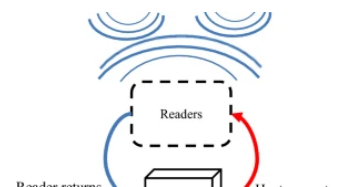


[A self learned invasive weed-mixed biogeography based optimization algorithm for RFID network planning](#)

E. G. Zahran, A. A. Arafa ... M. I. Dessouky

OriginalPaper | Published: 03 April 2020 |

Pages: 4109 - 4127

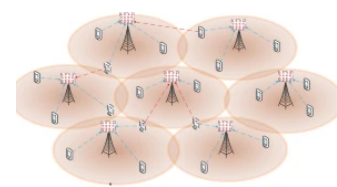


[Two dimension angle of arrival-based precoding for pilot contamination reduction in multi-cell massive MIMO systems](#)

Ehab Ali, Mahamod Ismail ... M. H. Mazlan

OriginalPaper | Published: 03 April 2020 |

Pages: 4129 - 4147

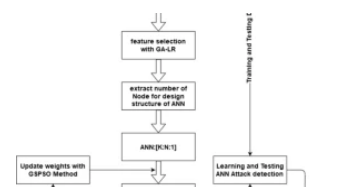


[A new machine learning method consisting of GA-LR and ANN for attack detection](#)

Soodeh Hosseini

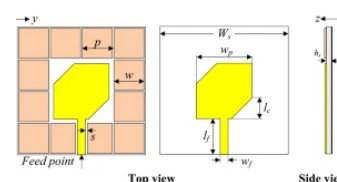
OriginalPaper | Published: 08 April 2020 |

Pages: 4149 - 4162



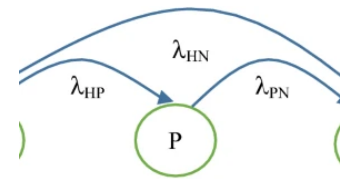
[Single-layer wideband circularly polarized antenna array using sequential phase feed for C-band applications](#)

K. Srinivasan, M. Balasaraswathi ... Huy Hung Tran



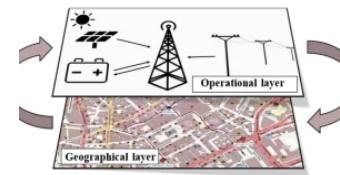
[FUCEM: futuristic cooperation evaluation model using Markov process for evaluating node reliability and link stability in mobile ad hoc network](#)

Prasannavenkatesan Theerthagiri



[An optimal energy resource allocation framework for cellular networks with power grid interruptions](#)

Maria O. Hanna, Mostafa F. Shaaban ... Mohamed S. Hassan



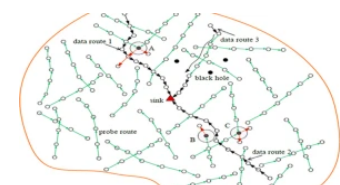
[Vehicular networks with security and trust management solutions: proposed secured message exchange via blockchain technology](#)

Nisha Malik, Priyadarsi Nanda ... Ren Ping Liu

11: Proposed VANET simulation procedure and process
count of vehicles, source vehicle, RSUs, VANET environment
mobility mode ()
if (t % T_{second} == 0) in every T_{second}, send
data packets from source node and
access by receiver node/
send data()
access data()
authentication()
provide access()
End if

[Glowworm swarm optimization for effectual load balancing and routing strategies in wireless sensor networks](#)

A. Sampathkumar, Jaison Mulerikkal & M. Sivaram

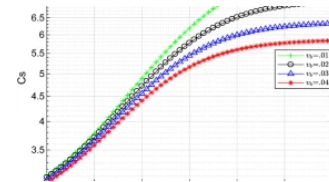


[Physical layer security for space–time-block-coded MIMO system in Rician fading in the presence of imperfect feedback](#)

Rajiv Kumar & Sudakar Singh Chauhan

OriginalPaper | Published: 22 April 2020 |

Pages: 4239 - 4247

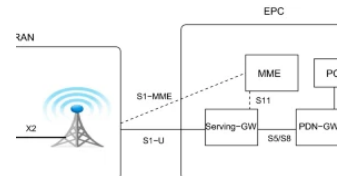


[QoS aware and fault tolerant handovers in software defined LTE networks](#)

Anil Kumar Rangiseti & Vanlin Sathya

OriginalPaper | Published: 23 April 2020 |

Pages: 4249 - 4267

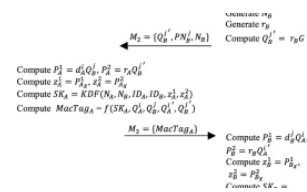


[An anonymous and secure key agreement protocol for NFC applications using pseudonym](#)

Mahdi Ghafoorian & Morteza Nikooghadam

OriginalPaper | Published: 27 April 2020 |

Pages: 4269 - 4285

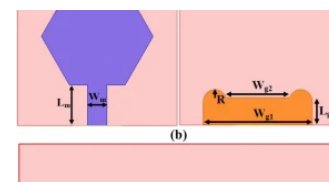


[Design, analysis and characterization of four port multiple-input-multiple-output UWB-X band antenna with band rejection ability for wireless network applications](#)

Vigneswaran Dhasarathan, Truong Khang Nguyen ... M. Thurai Pandian

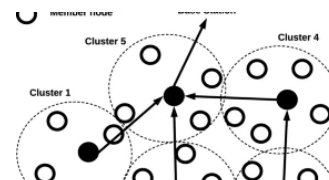
OriginalPaper | Published: 27 April 2020 |

Pages: 4287 - 4302



[EDMARA2: a hierarchical routing protocol for EH-WSNs](#)

Milad Khademi Nori & Saeed Sharifian



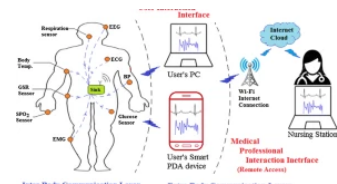
[RLProph: a dynamic programming based reinforcement learning approach for optimal routing in opportunistic IoT networks](#)

Deepak Kumar Sharma, Joel J. P. C. Rodrigues ...
Anshuman Chhabra



[Multi-objective optimization framework complying IEEE 802.15.6 communication standards for wireless body area networks](#)

Amit Choudhary, M. Nizamuddin ... Vibhav Kumar
Sachan



[Improvement on a privacy-preserving outsourced classification protocol over encrypted data](#)

Yanting Chai, Yu Zhan ... Zhili Zhang

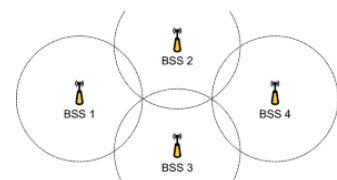
```

5  A: runs the comparison protocol with B to get
   E_Q(b_i), where b_i = (max_{a_{\pi(1)}}).
6  A: sends E_Q(b_i) to B.
7  B: decrypt E_Q(b_i) to get b_i.
8  A: picks two random integers r_i, s_i \in \mathbb{Z}_N, where
   N is the public key modulus of OU.
9  A: E(m'_i) \leftarrow E(max) \cdot E(r_i).
10 A: E(a'_i) \leftarrow E(a_{\pi(i)}) \cdot E(s_i).
11 A: sends E(m'_i) and E(a'_i) to B.
12 If b_i = 1 then
13   B: m \leftarrow i.
14   B: refreshes E(a'_i) and then assigns it to
   E(a_i).

```

[Constrained channel bonding based on maximum achievable throughput in WLANs](#)

Min Peng, Caihong Kai & Lusheng Wang

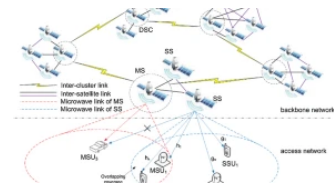


[Energy efficiency resource allocation based on spectrum-power tradeoff in distributed satellite cluster network](#)

Weilong Wang, Jun Wei ... Yongxing Zheng

OriginalPaper | Published: 04 May 2020 |

Pages: 4389 - 4402

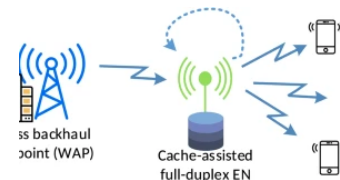


[Cache-aided full-duplex: delivery time analysis and optimization](#)

Thang X. Vu, Anh Vu Trinh ... Xuan Nam Tran

OriginalPaper | Published: 05 May 2020 |

Pages: 4403 - 4410

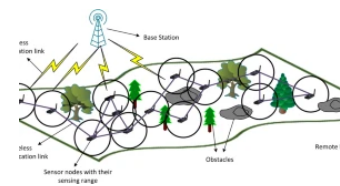


[A distributed reinforcement learning based sensor node scheduling algorithm for coverage and connectivity maintenance in wireless sensor network](#)

Anamika Sharma & Siddhartha Chauhan

OriginalPaper | Published: 05 May 2020 |

Pages: 4411 - 4429

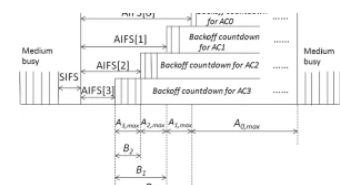


[Performance analysis of IEEE802.11e EDCA wireless networks under finite load](#)

Wei Feng

OriginalPaper | Published: 05 May 2020 |

Pages: 4431 - 4457

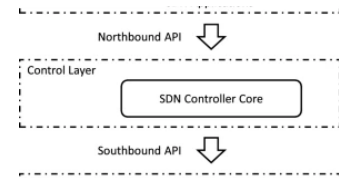


[A low latency service function chain with SR-I/OV in software defined networks](#)

Huai-En Tseng & Shan-Hsiang Shen

OriginalPaper | Published: 06 May 2020 |

Pages: 4459 - 4475

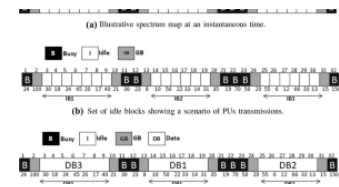


[Channel assignment mechanism for cognitive radio network with rate adaptation and guard band awareness: batching perspective](#)

Haythem Bany Salameh, Noor Al-Nusair ... Khalid A. Darabkh

OriginalPaper | Published: 08 May 2020 |

Pages: 4477 - 4489



[Performance analysis of coherent BPSK-OCDMA wireless communication system](#)

M. A. Morsy & Abdulaziz S. Alsayyari

OriginalPaper | Published: 09 May 2020 |

Pages: 4491 - 4505

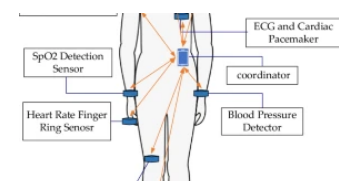


[Joint optimization of power control and time slot allocation for wireless body area networks via deep reinforcement learning](#)

Lili Wang, Ge Zhang ... Gaoshang Lin

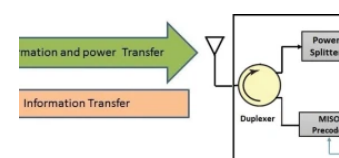
OriginalPaper | Published: 10 May 2020 |

Pages: 4507 - 4516



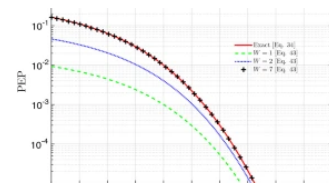
[Performance analysis of MIMO and MISO time division duplexing wireless links with SWIPT and antenna selection](#)

Effatsadat Faregh & Mohammad Javad Dehghani



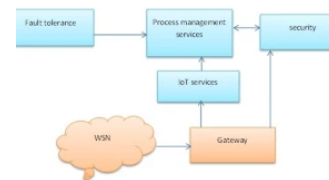
[SEP of the \$M\$ -ary \$\theta\$ -QAM signals under \$\eta - \mu\$ fading and AWGN noise in a communication system using spatial diversity](#)

Hugerles S. Silva, Danilo B. T. Almeida ... Marcelo S. de Alencar



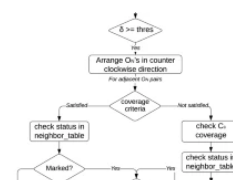
[Efficient fault-tolerant routing in IoT wireless sensor networks based on path graph flow modeling with Marchenko–Pastur distribution \(EFT-PMD\)](#)

S. Sivakumar & P. Vivekanandan



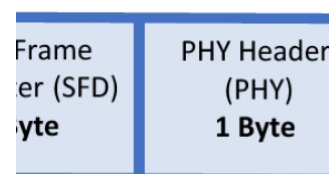
[Coverage aware face topology structure for wireless sensor network applications](#)

Ahmed M. Khedr, Zaher Al Aghbari & P V Pravija Raj



[Improving IEEE 802.15.4 performance with a switched Gold sequence chip formation](#)

Ali Gezer

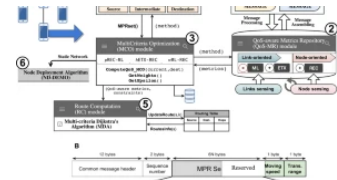


[Improving proactive routing with a multicriteria and adaptive framework in ad-hoc wireless networks](#)

Jean N. R. Araujo, Lucas S. Batista & Claudio C. Monteiro

OriginalPaper | Published: 15 May 2020 |

Pages: 4595 - 4614

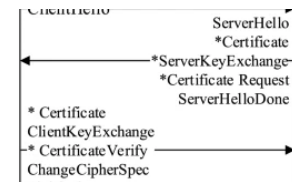


[Security offloading network system for expanded security coverage in IPv6-based resource constrained data service networks](#)

Jiyong Han & Daeyoung Kim

OriginalPaper | Published: 18 May 2020 |

Pages: 4615 - 4635

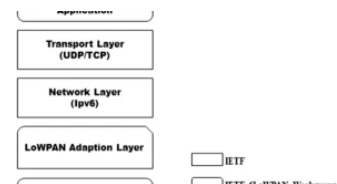


[Design and analysis of RPL objective functions using variant routing metrics for IoT applications](#)

Sharwari S. Solapure & Harish H. Kenchannavar

OriginalPaper | Published: 19 May 2020 |

Pages: 4637 - 4656



[Prediction-based secured handover authentication for mobile cloud computing](#)

Walid I. Khedr, Khalid M. Hosny ... Fathy A. Amer

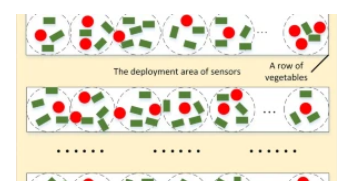
OriginalPaper | Published: 19 May 2020 |

Pages: 4657 - 4675



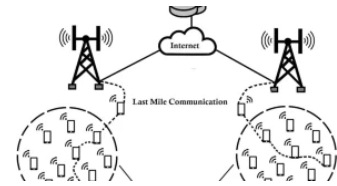
[Directional sensor placement in vegetable greenhouse for maximizing target coverage without occlusion](#)

Huarui Wu, Qingxue Li ... Baozhu Yang



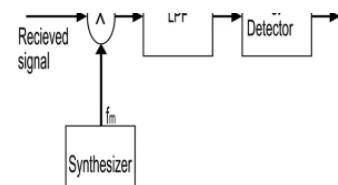
[Throughput stability and flow fairness enhancement of TCP traffic in multi-hop wireless networks](#)

M. Joseph Auxilius Jude, V. C. Diniesh & M. Shivaranjani



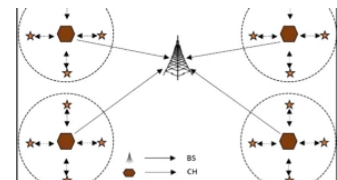
[Game-theory-based lifetime maximization of multi-channel cooperative spectrum sensing in wireless sensor networks](#)

Asma Bagheri, Ataollah Ebrahimzadeh & Maryam Najimi



[A novel efficient clustering protocol for energy harvesting in wireless sensor networks](#)

Dipak Kumar Sah & Tarachand Amgoth



For authors

[Submission guidelines](#)

[Language editing services](#)

[Ethics & disclosures](#)

[Open Access fees and funding](#)

[Contact the journal](#)

Submit manuscript



Working on a manuscript?

Avoid the most common mistakes and prepare your manuscript for journal editors.

[Learn more](#) →

Explore

[Online first articles](#)

[Volumes and issues](#)

Sign up for alerts

