



Wireless Networks

The Journal of Mobile Communication, Computation and Information

[Wireless Networks](#) > [Volumes and issues](#) > Volume 28, issue 6

Search within journal

Volume 28, issue 6, August 2022

Special Issue on Prototypes on Computer and Communication Networks (pp. 2731-2804)

Issue editor

Zhenling Liu

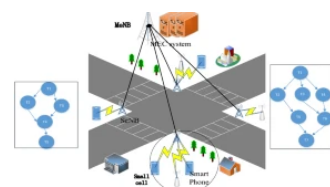
32 articles in this issue

[A novel offloading scheduling method for mobile application in mobile edge computing](#)

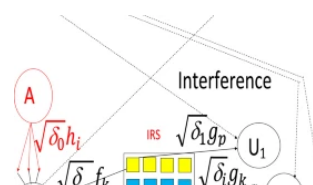
Yu-ya Cui, De-gan Zhang ... Mingjie Piao

Original Paper | Published: 22 April 2022 |

Pages: 2345 - 2363



[NOMA using intelligent reflecting surfaces with adaptive transmit power and multi-antennas energy harvesting](#)



Raed Alhamad

Original Paper | Published: 22 April 2022 |

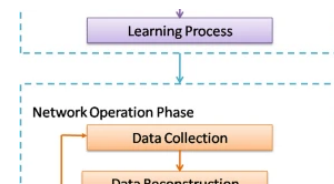
Pages: 2365 - 2374

[EDCCS: effective deterministic clustering scheme based compressive sensing to enhance IoT based WSNs](#)

Ahmed Aziz, Walid Osamy ... Ahmed M. Khedr

Original Paper | Published: 25 April 2022 |

Pages: 2375 - 2391

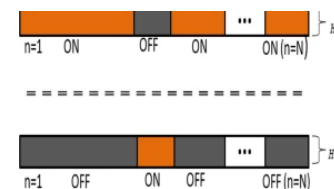


[Spectrum sensing based on two state discrete time Markov chain in additive Laplacian noise](#)

Khushboo Sinha & Y. N. Trivedi

Original Paper | Published: 26 April 2022 |

Pages: 2393 - 2402



[User grouping and power allocation for energy efficiency maximization in mmWave-NOMA heterogeneous networks](#)

Azadeh Khazali, Mahrokh G. Shayesteh & Hashem Kalbkhani

Original Paper | Published: 26 April 2022 |

Pages: 2403 - 2420

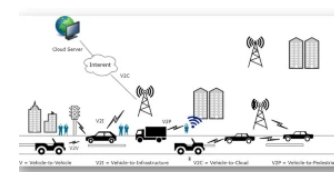


[An improved retransmission timeout prediction algorithm for enhancing data transmission on internet of vehicles network](#)

M. Joseph Auxilius Jude, S. Malini ... M. Shivaranjani

Original Paper | Published: 26 April 2022 |

Pages: 2421 - 2436

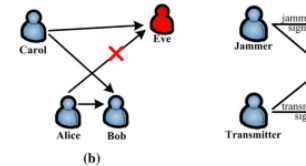


[Friendly spectrum jamming against MIMO eavesdropping](#)

Rong Jin, Kai Zeng & Chuan Jiang

Original Paper | Published: 27 April 2022 |

Pages: 2437 - 2453

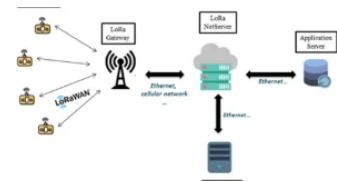


[Performance evaluation of the Over-The-Air activation procedure in a large scale LoRaWAN](#)

Chékra El Fehri, Nouha Baccour & Inès Kammoun

Original Paper | Published: 27 April 2022 |

Pages: 2455 - 2470

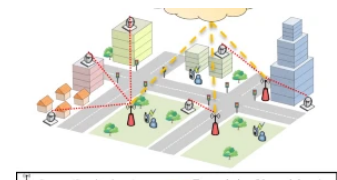


[Joint deployment and sleep scheduling of the Internet of things](#)

Chun-Cheng Lin, Yi-Chun Peng ... Zheng-Yu Chen

Original Paper | Published: 28 April 2022 |

Pages: 2471 - 2483

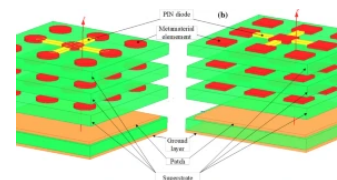


[Multiband miniaturised frequency reconfigurable patch antenna using PIN diodes](#)

R. Vinod Kumar, M Vanitha ... M Bindhu

Original Paper | Published: 30 April 2022 |

Pages: 2485 - 2497

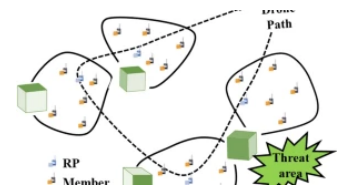


[EDGO: UAV-based effective data gathering scheme for wireless sensor networks with obstacles](#)

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

Original Paper | Published: 07 May 2022 |

Pages: 2499 - 2518

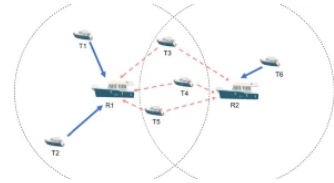


[An adaptive interference alignment scheme based on the dynamic selection of desired transmitters for unmanned ship network](#)

Shibao Li, Mingyu Wang ... Xuerong Cui

Original Paper | Published: 12 May 2022 |

Pages: 2519 - 2531



[GOP-SDN: an enhanced load balancing method based on genetic and optimized particle swarm optimization algorithm in distributed SDNs](#)

Zahra Kabiri, Behrang Barekatain & Avid Avokh

Original Paper | Published: 14 May 2022 |

Pages: 2533 - 2552

```

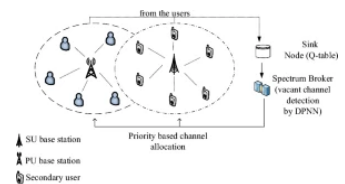
Genetic Algorithm pseudocode
1
Generate an initial random population
2
while iteration <= maxiteration
3
    iteration = iteration + 1
4
    Compute the fitness of each individual
5
    Select the individual according to their fitness
6
    Perform crossover with probability P
7
    Perform mutation with probability P
8
    Population = selected individuals after crossover and mutation
9
end while
    
```

[Deep Q-probabilistic algorithm based rock hyraxes swarm optimization for channel allocation in CRSN smart grids](#)

Korra Cheena, Tarachand Amgoth & Gauri Shankar

Original Paper | Published: 16 May 2022 |

Pages: 2553 - 2565

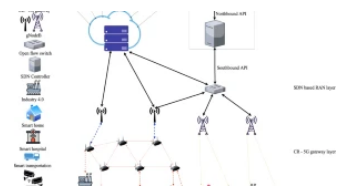


[An efficient spectrum sensing over \$\eta - \mu\$ fading on sub 6 GHz bands: A real-time implementation on USRP RIO](#)

Avinash Reddy Avuthu, Ramesh Babu Battula & Dinesh Gopalani

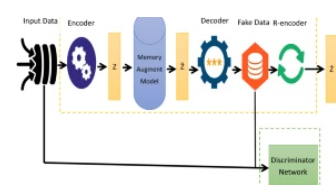
Original Paper | Published: 18 May 2022 |

Pages: 2567 - 2577



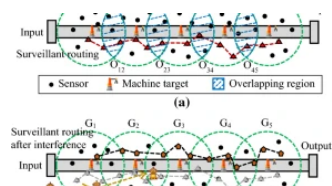
[Abnormal traffic detection-based on memory augmented generative adversarial IIoT-assisted network](#)

Tao Wang, Wenwei Li ... Jiancun Zhou



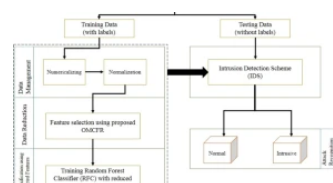
[Dynamic energy-efficient surveillance routing in uncertain group-based industrial wireless sensor networks](#)

Chun-Cheng Lin, Hui-Hsin Chin ... Ke-Wen Lu



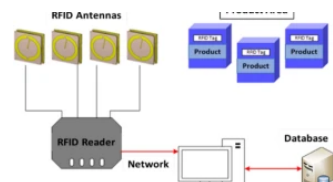
[An optimized maximum correlation based feature reduction scheme for intrusion detection in data networks](#)

Shashank Gavel, Ajay Singh Raghuvanshi & Sudarshan Tiwari



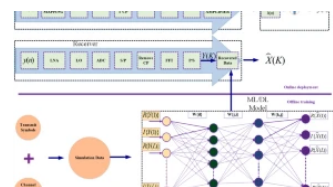
[A novel circularly polarized reader antenna design for UHF RFID applications](#)

Ismail Akdag, Cem Gocen ... Adnan Kaya



[Machine/deep learning based estimation and detection in OFDM communication systems with various channel imperfections](#)

Abhiraan Singh & Seemanti Saha

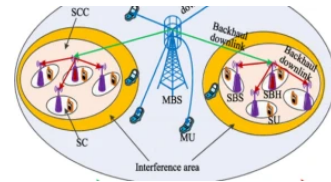


[A novel approach to fairness-aware energy efficiency in green heterogeneous cellular networks](#)

Fereshteh Atri Niasar, Amir Reza Momen & Seyed Abolfazl Hosseini

Original Paper | Published: 24 May 2022 |

Pages: 2651 - 2667

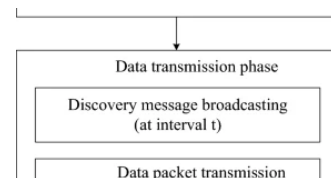


[Energy efficient and reliable routing in wireless body area networks based on reinforcement learning and fuzzy logic](#)

Wenjing Guo, Yiran Wang ... Ting Lu

Original Paper | Published: 24 May 2022 |

Pages: 2669 - 2693

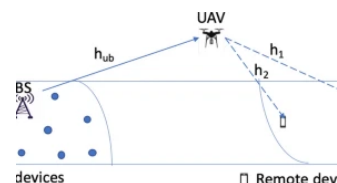


[Analysis of NOMA based UAV assisted short-packet communication system and blocklength minimization for IoT applications](#)

Shardul Thapliyal, Rajoo Pandey & Chhagan Charan

Original Paper | Published: 26 May 2022 |

Pages: 2695 - 2712

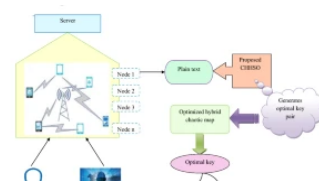


[Intelligent privacy preservation protocol in wireless MANET for IoT applications using hybrid crow search-harris hawks optimization](#)

Satyanarayana Pamarthi & R. Narmadha

Original Paper | Published: 28 May 2022 |

Pages: 2713 - 2729



[Special issue on prototypes on computer and communication networks](#)

Zhenling Liu

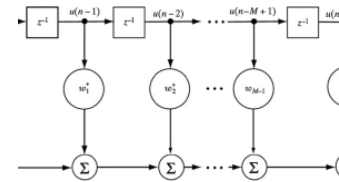
Guest Editorial | Published: 07 May 2022 | Pages: 2731 - 2732

[Method of sensitive data mining based on Pan-Bull algebra](#)

Ruijin Lin, Yuanrong He & Min Xu

OriginalPaper | Published: 02 August 2021 |

Pages: 2733 - 2741

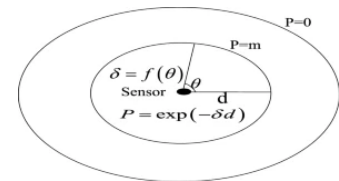


[Method for optimal allocation of network resources based on discrete probability model](#)

Zhengqiang Song & Guo Hao

OriginalPaper | Published: 05 August 2021 |

Pages: 2743 - 2754

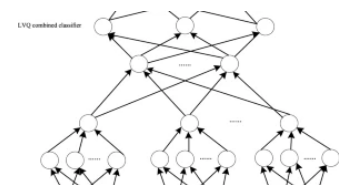


[Discrete control algorithm of simulation load division based on complex network flow](#)

Xianfeng Li, Sen Xu & Xiaopeng Hua

OriginalPaper | Published: 03 August 2021 |

Pages: 2755 - 2764

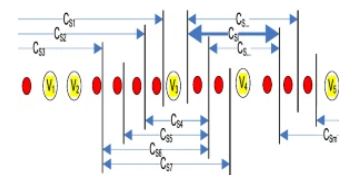


[Operation data prediction algorithm of information system based on discrete second-order difference](#)

Beining Sun

OriginalPaper | Published: 12 August 2021 |

Pages: 2765 - 2774

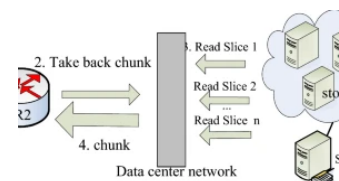


[Fuzzy self-adaptive prediction method for data transmission congestion of multimedia network](#)

Hean Liu & Young Chun Ko

OriginalPaper | Published: 13 August 2021 |

Pages: 2775 - 2784

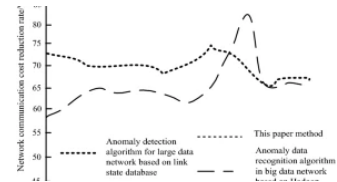


[Location algorithm of fuzzy outliers in big data networks](#)

Rentai Chen

OriginalPaper | Published: 16 July 2021 |

Pages: 2785 - 2793

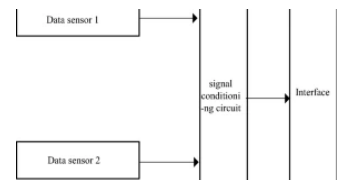


[Data acquisition and transmission of laboratory local area network based on fuzzy DEMATEL algorithm](#)

Lei Yang

OriginalPaper | Published: 16 July 2021 |

Pages: 2795 - 2804



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](#)