



Wireless Networks

The Journal of Mobile Communication, Computation and Information

[Wireless Networks](#) > [Volumes and issues](#) > Volume 28, issue 5

Search within journal

Volume 28, issue 5, July 2022

Special Issue on Recent Trends in Mobile and Wireless Applications (pp:2273-2344)

Issue editor

Xuefeng Zhu

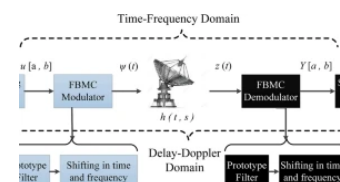
32 articles in this issue

[Error and outage performance of the FBMC-based OTFS using large-scale and massive MISO-NOMA with millimeter-wave channel by LOS and NLOS paths impact](#)

Seyed Mahmoud Pishvaei & Behzad Mozaffari
Tazehkand

Original Paper | Published: 26 March 2022 |

Pages: 1835 - 1855

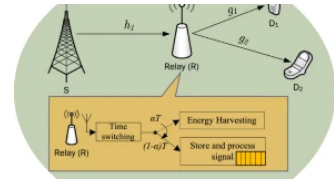


[Enhancing the performance of downlink NOMA relaying networks by RF energy harvesting and data buffering at relay](#)

Tran Manh Hoang, Nguyen Nhu Thang ... Phuong T. Tran

Original Paper | Published: 31 March 2022 |

Pages: 1857 - 1877



[Pilot contamination suppression method for massive MIMO system based on ant colony optimization](#)

Jianpo Li, Peng Xue & Wenting Wang

Original Paper | Published: 01 April 2022 |

Pages: 1879 - 1888

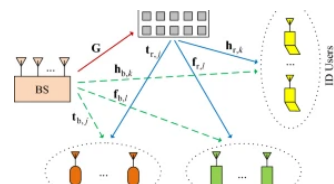


[Intelligent reflecting surface assisted transceiver design optimization in non-linear SWIPT network with heterogeneous users](#)

Pham Viet Tuan & Pham Ngoc Son

Original Paper | Published: 01 April 2022 |

Pages: 1889 - 1908

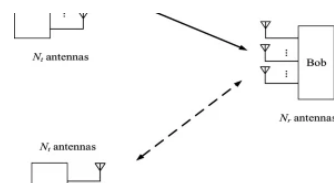


[Physical layer authentication in MIMO systems: a carrier frequency offset approach](#)

Yangyang Liu, Pinchang Zhang ... Xiaohong Jiang

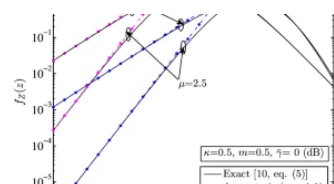
Original Paper | Published: 01 April 2022 |

Pages: 1909 - 1921



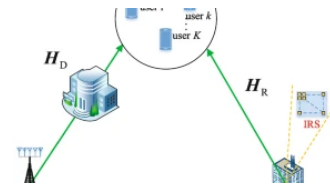
[Generalised asymptotic frame-work for double shadowed \$\kappa - \mu\$ fading with application to wireless communication and diversity reception](#)

Puspraj Singh Chauhan, Sandeep Kumar ... Brijesh Kumar



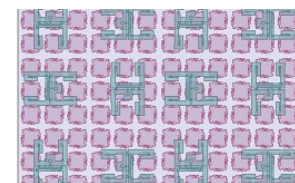
[Joint beamforming and power allocation for intelligent reflecting surface-aided millimeter wave MIMO systems](#)

Guang-Hui Li, Dian-Wu Yue & Feng Qi



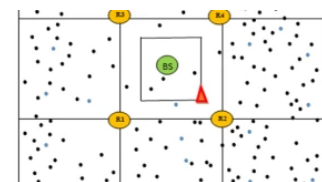
[Gain and isolation improvement of compact MIMO printed dipole arrays realized by second iteration Giuseppe Peano AMC for 4G/5G wireless networks](#)

Hossein Malekpoor & Ali Abolmasoumi



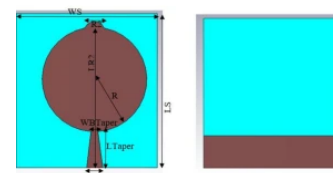
[Mobile sink and fuzzy based relay node routing protocol for network lifetime enhancement in wireless sensor networks](#)

R. Senthil Kumaran & G. Nagarajan

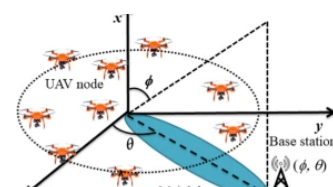


[Compact high isolation UWB MIMO antennas](#)

Bazil Taha Ahmed & Iván Fernández Rodríguez



[Joint optimization of SNR and motion energy consumption for UAV-enabled collaborative beamforming](#)



Tingting Zheng, Yanheng Liu ... Jiahui Li

Original Paper | Published: 06 April 2022 |

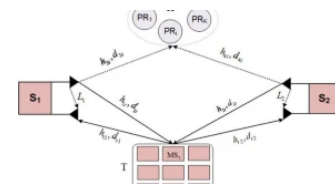
Pages: 2001 - 2016

[Multi-constraint two-way underlay cognitive network using reconfigurable intelligent surface](#)

Thu-Thuy Thi Dao & Pham Ngoc Son

Original Paper | Published: 06 April 2022 |

Pages: 2017 - 2030

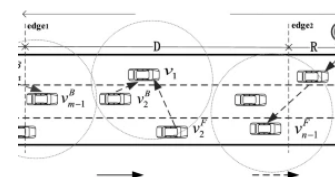


[An adaptive message return strategy for same direction multilane in vehicular networks](#)

Yuexia Zhang & Ying Zhou

Original Paper | [Open Access](#) |

Published: 08 April 2022 | Pages: 2031 - 2046

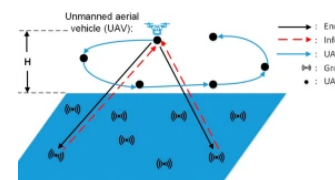


[Energy-balanced path optimization of UAV-assisted wireless power and information system](#)

Jing Guo, Shuai Yang ... Xu Zhang

Original Paper | Published: 09 April 2022 |

Pages: 2047 - 2059

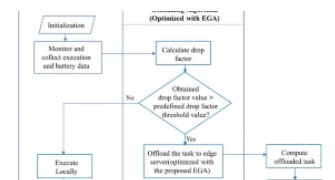


[An edge computational offloading architecture for ultra-low latency in smart mobile devices](#)

Benjamin Kwapong Osibo, Zilong Jin ... Yuanfeng Jin

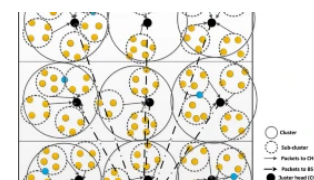
Original Paper | Published: 11 April 2022 |

Pages: 2061 - 2075



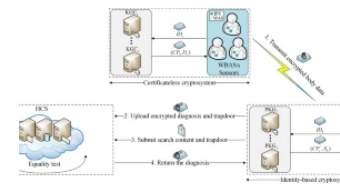
[A two-step clustering to minimize redundant transmission in wireless sensor network using sleep-awake mechanism](#)

Nura Modi Shagari, Rosli Bin Salleh ... Salisu Modi



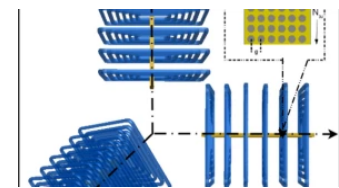
[Cross-domain encryption scheme with equality test for wireless body area networks](#)

Ming Luo, Yusi Pei & Ai Chen



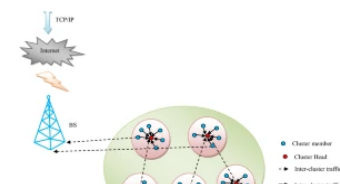
[3D-multilayer magneto-inductive transceiver coil structure and optimal placement of relays for non-conventional media](#)

Vinay Kumar, Sadanand Yadav ... Dushantha Nalin K. Jayakody



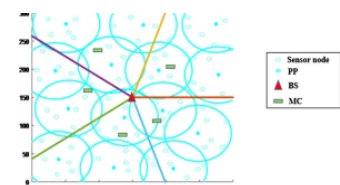
[A new routing protocol for WSN using limit-based Jaya sail fish optimization-based multi-objective LEACH protocol: an energy-efficient clustering strategy](#)

M. K. Nagarajan, N. Janakiraman & C. Balasubramanian



[An optimization-based coverage aware path planning algorithm for multiple mobile collectors in wireless sensor networks](#)

Banafsaj Khalifa, Zaher Al Aghbari & Ahmed M. Khedr

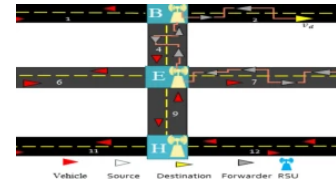


[Reinforcement learning based on routing with infrastructure nodes for data dissemination in vehicular networks \(RRIN\)](#)

Arbelo Lolai, Xingfu Wang ... Abdul Hafeez Babar

Original Paper | Published: 18 April 2022 |

Pages: 2169 - 2184

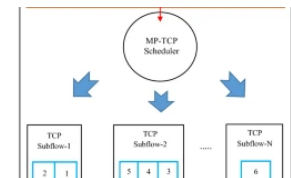


[An adaptive multi-path data transfer approach for MP-TCP](#)

Lal Pratap Verma, Varun Kumar Sharma ... Aniket Mahanti

Original Paper | Published: 20 April 2022 |

Pages: 2185 - 2212

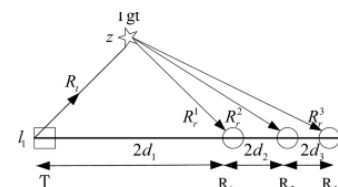


[Optimal deployment of multistatic radar for belt barrier coverage](#)

Haipeng Li, Dazheng Feng ... Chi Zhang

Original Paper | Published: 20 April 2022 |

Pages: 2213 - 2235

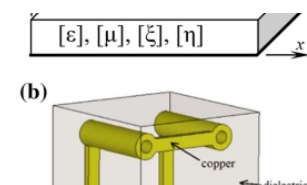


[Negative input impedance of a dipole antenna printed on a grounded tellegen metamaterial substrate](#)

C. Zebiri, M. L. Bouknia ... J. Rodriguez

Original Paper | Published: 21 April 2022 |

Pages: 2237 - 2254

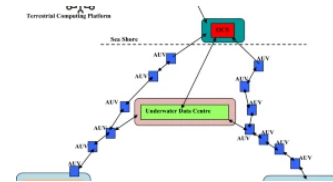


[Edge computing for big data processing in underwater applications](#)

A. A. Periola, A. A. Alonge & K. A. Ogudo

Original Paper | Published: 21 April 2022 |

Pages: 2255 - 2271



[SI 27: Recent trends in mobile and wireless applications](#)

Xuefeng Zhu

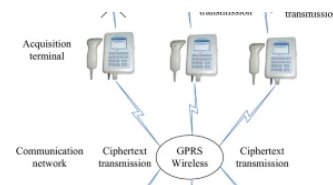
Guest Editorial | Published: 27 April 2022 | Pages: 2273 - 2274

[Intelligent acquisition method for power consumption data of single channel grouping based on symmetric mathematics](#)

Jinkai Sun

OriginalPaper | Published: 18 July 2021 |

Pages: 2275 - 2287

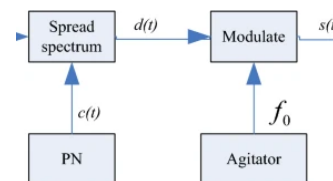


[Communication network array signal synchronous transmission method based on Gaussian fuzzy algorithm](#)

Jingxiang Zhong

OriginalPaper | Published: 17 July 2021 |

Pages: 2289 - 2298

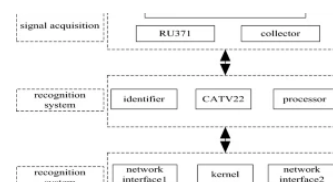


[A neuron fuzzy identification system based on a complex nonlinear mathematical model](#)

Hongying Luo, Jun Liu & Xuebin Li

OriginalPaper | Published: 04 August 2021 |

Pages: 2299 - 2311

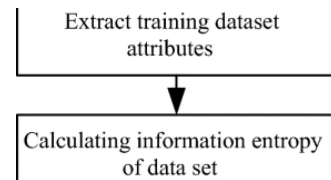


[Construction of data transmission consistency verification model of Petri net based on fuzzy C-means](#)

Zuopeng Wang & Zhenying Zhu

OriginalPaper | Published: 24 August 2021 |

Pages: 2313 - 2322



[Localization and image of metro vehicle bogie frame using guided waves](#)

Guoqiang Cai, Ye Zhang ... Yue Pan

OriginalPaper | Published: 11 February 2022 |

Pages: 2323 - 2335

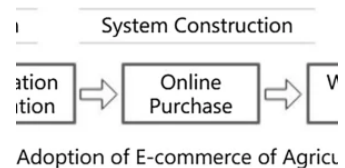


[Income-increasing effect of e-commerce of agricultural products based on IT absorptive theory](#)

Dan Lyu, Li Zhou & Xin Ma

OriginalPaper | Published: 18 February 2022 |

Pages: 2337 - 2344



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](#)