



Wireless Networks

The Journal of Mobile Communication, Computation and Information

[Wireless Networks](#) > [Volumes and issues](#) > Volume 26, issue 8

Search within journal

Volume 26, issue 8, November 2020

Special Issue on Recent Advances in Mobile Service Computing and Applications

Issue editors

Honghao Gao, Yuyu Yin & Yucong Duan

50 articles in this issue

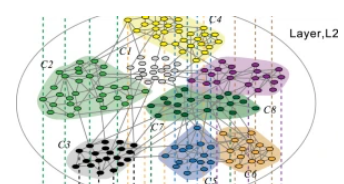
[Special issue on recent advances in mobile service computing and applications](#)

Honghao Gao, Yuyu Yin & Yucong Duan

Guest Editorial | Published: 27 November 2019 | Pages: 5501 - 5502

[Local community detection for multi-layer mobile network based on the trust relation](#)

XiaoMing Li, Qiang Tian ... Xiaoxian Yang

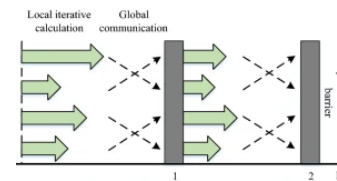


[Distributed machine learning load balancing strategy in cloud computing services](#)

Mingwei Li, Jilin Zhang ... Jue Wang

OriginalPaper | Published: 06 July 2019 |

Pages: 5517 - 5533

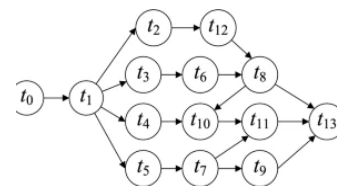


[Computation offloading for multimedia workflows with deadline constraints in cloudlet-based mobile cloud](#)

Tao Huang, Feng Ruan ... Yucong Duan

OriginalPaper | Published: 17 June 2019 |

Pages: 5535 - 5549

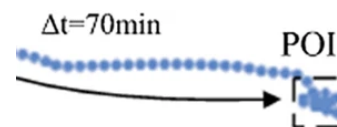


[Privacy preserving semantic trajectory data publishing for mobile location-based services](#)

Rong Tan, Yuan Tao ... Yuan-Yuan Zhang

OriginalPaper | [Open Access](#) |

Published: 15 June 2019 | Pages: 5551 - 5560

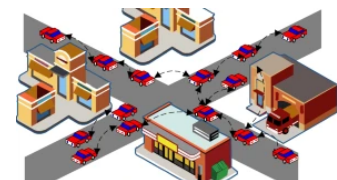


[A novel approach of dynamic base station switching strategy based on Markov decision process for interference alignment in VANETs](#)

Chong Zhao, Jianghong Han ... Fan Yang

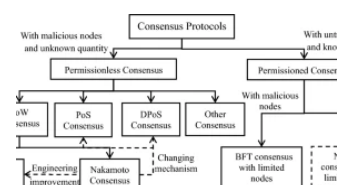
OriginalPaper | Published: 17 March 2020 |

Pages: 5561 - 5578



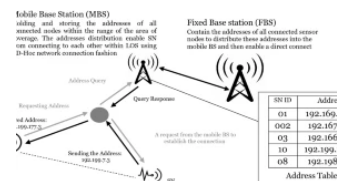
[Recent advances in consensus protocols for blockchain: a survey](#)

Shaohua Wan, Meijun Li ... Chen Wang



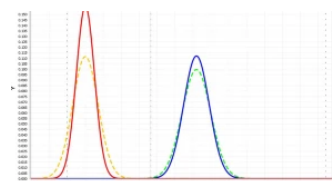
[Evolutionary intelligence in wireless sensor network: routing, clustering, localization and coverage](#)

Ali Jameel Al-Mousawi



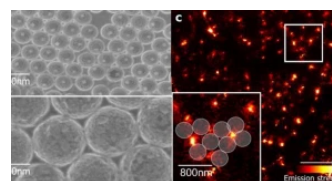
[New metrics to modify BGP routes based on SDN](#)

Lorenzo M. Elguea & Felix Martinez-Rios



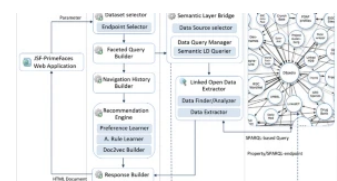
[Packing algorithm inspired by gravitational and electromagnetic effects](#)

Felix Martinez-Rios & Alfonso Murillo-Suarez



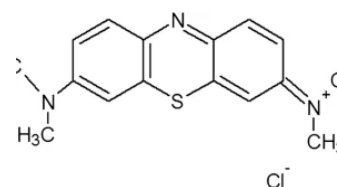
[LINDASearch: a faceted search system for linked open datasets](#)

José Luis Sánchez-Cervantes, Luis Omar Colombo-Mendoza ... Alejandro Rodríguez-González



[Determining optimum carob powder adsorption for cleaning wastewater: intelligent optimization with electro-search algorithm](#)

Bahdisen Gezer, Utku Kose ... Pandian Vasant



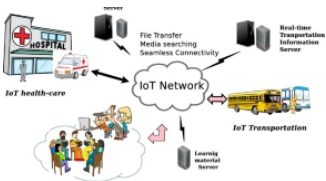
[Compress sensing algorithm for estimation of signals in sensor networks](#)

Juan Martinez, Jose Mejia ... José Antonio Marmolejo-Saucedo

```
gorithm
 $z_v = 0$  for all  $v \in V$ , set  $\tau > 0$ ,  $m(0)=0$ 
.., stop iter do
randomly a communication link  $E = (u, w)$ 
 $v = A_v \frac{z_u(t)+z_w(t)}{2} + \frac{1}{2} z_v(t-1)(\sigma'_t(A^T z_v(t-1) + x$ 
 $= \sigma_k[\frac{z_u(t)+z_w(t)}{2} + \tau A_v^T z_v(t)]$ 
 $tw = A_w \frac{z_u(t)+z_w(t)}{2} + \frac{1}{2} z_w(t-1)(\sigma'_t(A^T z_w(t-1) +$ 
 $= \sigma_k[\frac{z_u(t)+z_w(t)}{2} + \tau A_w^T z_w(t)]$ 
 $= x_h(t)$  for any  $h \neq v, w$ 
```

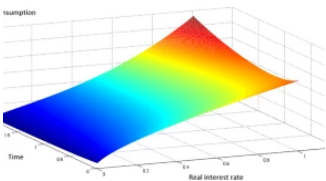
[Reliable and secure data transfer in IoT networks](#)

Sarada Prasad Gochhayat, Chhagan Lal ... Utku Kose



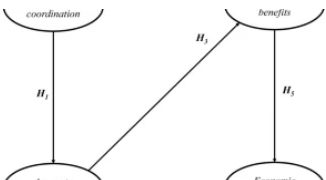
[Optimal consumption decisions of family networks with similar felicity functions](#)

Alfredo Omar Palafox-Roca, Román Rodríguez-Aguilar ... Francisco Venegas-Martínez



[The importance of access to information and knowledge coordination on quality and economic benefits obtained from Six Sigma](#)

Jorge Luis García-Alcaraz, Francisco Javier Flor Montalvo ... Emilio Jiménez-Macías

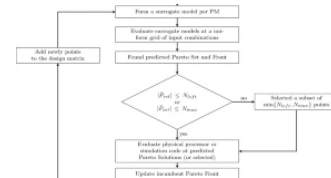


[A sequential surrogate-based multiobjective optimization method: effect of initial data set](#)

Maria Guadalupe Villarreal-Marroquin, Jose Daniel Mosquera-Artamonov ... Jose M. Castro

OriginalPaper | Published: 18 December 2019 |

Pages: 5727 - 5750

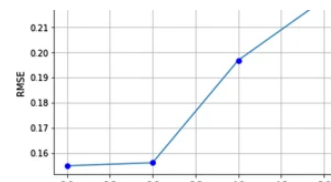


[Prediction of time series using wavelet Gaussian process for wireless sensor networks](#)

Jose Mejia, Alberto Ochoa-Zezzatti ... Boris Mederos

OriginalPaper | Published: 08 January 2020 |

Pages: 5751 - 5758



[Reverse logistics optimization of an industrial air conditioner manufacturing company for designing sustainable supply chain: a fuzzy hybrid multi-criteria decision-making approach](#)

Sadia Samar Ali, Turan Paksoy ... Rajbir Kaur

OriginalPaper | Published: 11 January 2020 |

Pages: 5759 - 5782

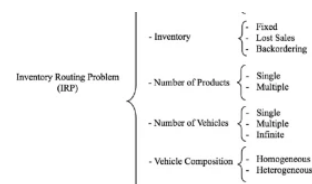


[CAR: heuristics for the inventory routing problem](#)

Ramkumar Nambirajan, Abraham Mendoza ... K. Ganesh

OriginalPaper | Published: 23 January 2020 |

Pages: 5783 - 5808

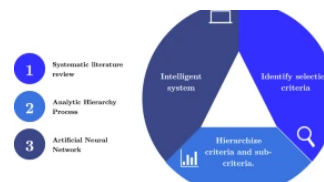


[Intelligent system for selection of order picking technologies](#)

Gabriela Villarreal-Zapata, Tomas E. Salais-Fierro & Jania Astrid Saucedo-Martínez

OriginalPaper | Published: 30 January 2020 |

Pages: 5809 - 5816

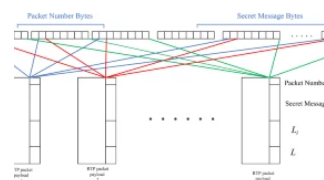


[Reliability enhancement and packet loss recovery of any steganographic method in voice over IP](#)

Parvaneh Amirzade Dana, Zahra Esmailbeig & Mohammad-Reza Sadeghi

OriginalPaper | Published: 26 March 2020 |

Pages: 5817 - 5823

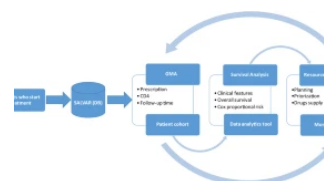


[An analytical intelligence model for the management of resources for the treatment of high-cost diseases: the case of HIV in Mexico](#)

Román Rodríguez-Aguilar & Gustavo Rivera-Peña

OriginalPaper | Published: 27 March 2020 |

Pages: 5825 - 5834



[Modeling the relationship between organizational performance and green supply chain practices using canonical correlation analysis](#)

Bothinah Altaf, Sadia Samar Ali & Gerhard-Wilhelm Weber

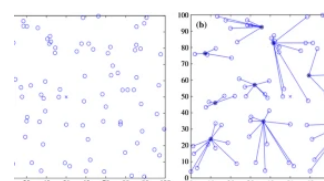
OriginalPaper | Published: 30 March 2020 |

Pages: 5835 - 5853



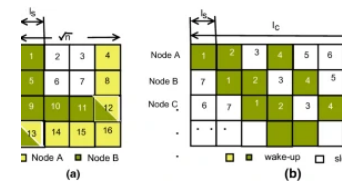
[An event-driven energy-efficient routing protocol for water quality sensor networks](#)

Xiaoyi Wang, Gongxue Cheng ... Li Wang



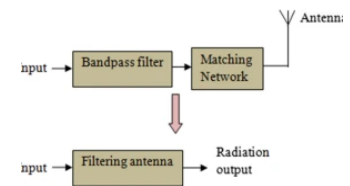
[Binary Galois field based asynchronous scheduling protocol for delay tolerant networks](#)

Kashi Nath Datta, Prithviraj Pramanik ... Sujoy Saha



[Implementation and parametric analysis of single and dual band planar filtering antennas for WLAN applications](#)

Nithya Dorairajan & Chitra M. Perumal



[Optimal solution for malicious node detection and prevention using hybrid chaotic particle dragonfly swarm algorithm in VANETs](#)

S. Prabakeran & T. Sethukarasi

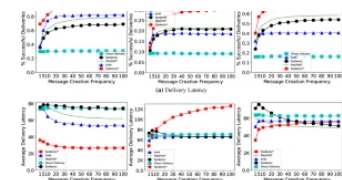
```

Using Eqs. (2-6) evaluate  $s_i$ ,  $a_i$ ,  $c_i$ ,  $f_i$  and  $e_i$ 
Using Eq. (7) the neighboring radius is updated
if a dragonfly has any of the neighborhood dragonfly
Using Eq. (8) the velocity vector is updated
Using Eq. (9) the position vector is updated
else
Using Eq. (10) the position vector is updated
end if
Variable boundaries are used to verify the new positions
End
End

```

[Catora: congestion avoidance through transmission ordering and resource awareness in delay tolerant networks](#)

Douglas McGeehan & Sanjay Kumar Madria



[Detecting Byzantine attack in cognitive radio networks using machine learning](#)

Rupam Sarmah, Amar Taggu & Ningrinla Marchang

OriginalPaper | Published: 09 July 2020 |

Pages: 5939 - 5950

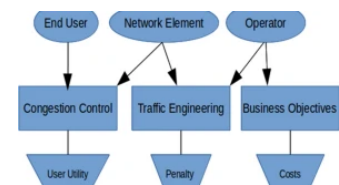


[Scheduling and resources allocation in network traffic using multiobjective, multiuser joint traffic engineering](#)

Ghazanfar Latif, N. Saravanakumar ... Muhammad O. Butt

OriginalPaper | Published: 09 July 2020 |

Pages: 5951 - 5963

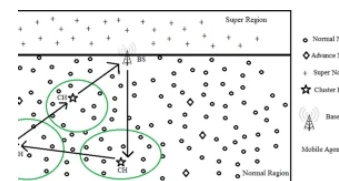


[Augmenting network lifetime for heterogenous WSN assisted IoT using mobile agent](#)

Harmeet Singh, Manju Bala & Sukhvinder Singh Bamber

OriginalPaper | Published: 10 July 2020 |

Pages: 5965 - 5979

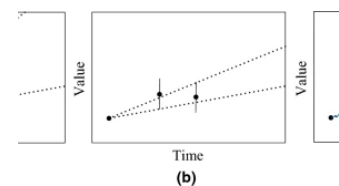


[A new lossy compression algorithm for wireless sensor networks using Bayesian predictive coding](#)

Chen Chen, Limao Zhang & Robert Lee Kong Tiong

OriginalPaper | Published: 10 July 2020 |

Pages: 5981 - 5995

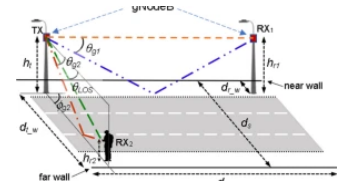


[Channel model for simultaneous backhaul and access for mmWave 5G outdoor street canyon channel](#)

M. Sheeba Kumari & Navin Kumar

OriginalPaper | Published: 11 July 2020 |

Pages: 5997 - 6013

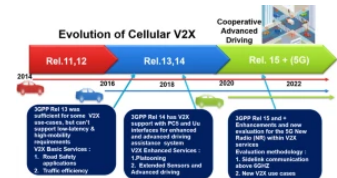


[5G-V2X: standardization, architecture, use cases, network-slicing, and edge-computing](#)

Shimaa A. Abdel Hakeem, Anar A. Hady & HyungWon Kim

OriginalPaper | Published: 11 July 2020 |

Pages: 6015 - 6041

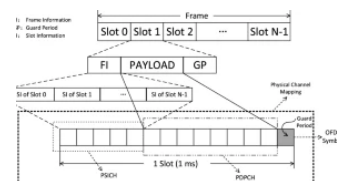


[An efficient message broadcasting MAC protocol for VANETs](#)

Zhiping Lin, Yanglong Sun ... Zhaohui Liu

OriginalPaper | Published: 14 July 2020 |

Pages: 6043 - 6057

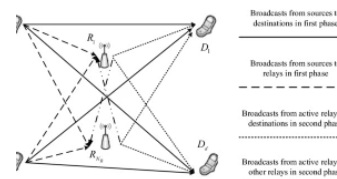


[Relay selection for multi-source network-coded D2D multicast communications in heterogeneous networks](#)

Hashem Kalbkhani & Mahrokh G. Shayesteh

OriginalPaper | Published: 15 July 2020 |

Pages: 6059 - 6076

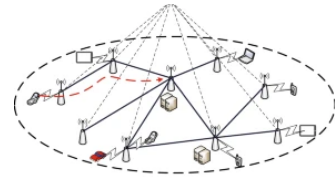


[Optimal deployment of cloudlets based on cost and latency in Internet of Things networks](#)

Zhongmin Wang, Feng Gao & Xiaomin Jin

OriginalPaper | Published: 15 July 2020 |

Pages: 6077 - 6093

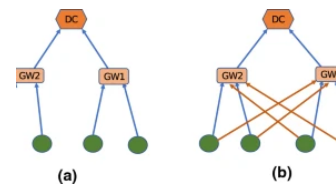


[Sum-rate maximization and data delivery for wireless seismic acquisition](#)

Abdullah Othman, Wessam Mesbah ... Gordon Stüber

OriginalPaper | Published: 18 July 2020 |

Pages: 6095 - 6110

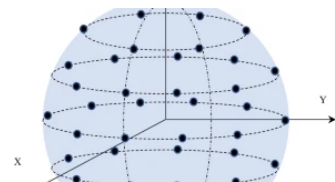


[Direction-independent and self-reconfigurable spherical-cap antenna array beamforming technique for massive 3D MIMO systems](#)

Yasser Albagory

OriginalPaper | Published: 20 July 2020 |

Pages: 6111 - 6123



[Modeling and analysis of distributed millimeter wave massive MIMO system using Poisson point processes](#)

Jing Li & Dian-Wu Yue

OriginalPaper | Published: 20 July 2020 |

Pages: 6125 - 6138

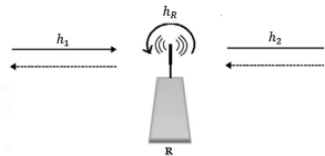


[Full-duplex wireless information and power transfer in two-way relaying networks with self-energy recycling](#)

Rajeev Kumar & Ashraf Hossain

OriginalPaper | Published: 20 July 2020 |

Pages: 6139 - 6154

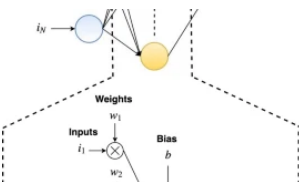


[Artificial neural network design for improved spectrum sensing in cognitive radio](#)

Dhaval K. Patel, Miguel López-Benítez ... Ángel F. García-Fernández

OriginalPaper | Published: 22 July 2020 |

Pages: 6155 - 6174

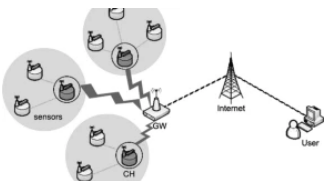


[Gradient-based adaptive modeling for IoT data transmission reduction](#)

Pei Heng Li & Hee Yong Youn

OriginalPaper | Published: 22 July 2020 |

Pages: 6175 - 6188



[Network traffic prediction based on INGARCH model](#)

Meejoung Kim

OriginalPaper | Published: 22 July 2020 |

Pages: 6189 - 6202

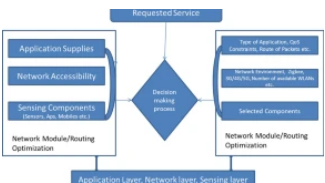
procedure
as a dataset: Transform the traffic data $\{X_t\}_{t=1}^N$ to $\{Y_t\}_{t=1}^N$ that has Poisson distribution
process:
1: $\{Y_t\}_{t=1}^N$ into two disjoint subsets $\{Y_t\}_{t=1}^{N_1}$ and $\{Y_t\}_{t=N_1+1}^N$, where $N_1 = N \times r$ for training ratio $r \in (0, 1)$.
2: $\{Y_t\}_{t=1}^{N_1}$, find $\hat{\theta}$ by (5).
3: $\hat{\theta}$ and (7), find $\{\hat{Y}_t(\alpha)\}_{t=N_1+1}^N$, the n -step ahead predicted data.
4: inverse transform of $\{\hat{Y}_t(\alpha)\}_{t=N_1+1}^N$ and get $\{\hat{X}_t(\alpha)\}_{t=N_1+1}^N$.
5: use the performance measures with $\{\hat{X}_t(\alpha)\}_{t=N_1+1}^N$ and $\{X_t\}_{t=N_1+1}^N$.
6: process: Increase N_1 one by one up to N and perform steps 2-5.

[QoS aware cross layer paradigm for urban development applications in IoT](#)

Shalli Rani, N. Saravanakumar ... Safdar Hussain Bouk

OriginalPaper | Published: 22 July 2020 |

Pages: 6203 - 6214

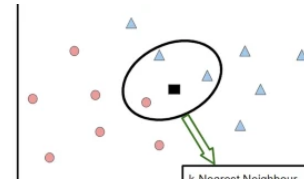


Construction of an indoor radio environment map using gradient boosting decision tree

Syahidah Izza Rufaida, Jenq-Shiou Leu ... Jun-Ichi
Takada

OriginalPaper | Published: 23 July 2020

Pages: 6215 - 6236

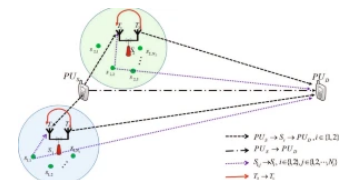


Design and analysis of adaptive full-duplex cognitive relay cooperative strategy based on primary system behavior

Suoping Li, Wei Li ... Fan Wang

OriginalPaper | Published: 24 July 2020

Pages: 6237 - 6252

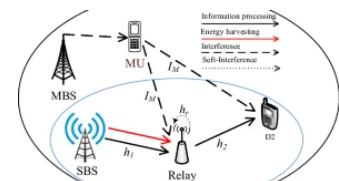


Joint of full-duplex relay, non-linear energy harvesting and multiple access in performance improvement of cell-edge user in heterogeneous networks

Dinh-Thuan Do, Chi-Bao Le & Anh-Tu Le

OriginalPaper | Published: 25 July 2020

Pages: 6253 - 6266

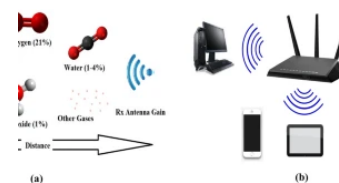


Terahertz band channel properties according to transmit power estimation

Mustafa Alper Akkaş

OriginalPaper | Published: 28 July 2020

Pages: 6267 - 6284



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

