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This index covers all technical items—papers, correspondence, reviews, etc.—that appeared in this periodical during 2021, and items from previous years that were commented upon or corrected in 2021. Departments and other items may also be covered if they have been judged to have archival value.

The Author Index contains the primary entry for each item, listed under the first author's name. The primary entry includes the coauthors' names, the title of the paper or other item, and its location, specified by the publication abbreviation, year, month, and inclusive pagination. The Subject Index contains entries describing the item under all appropriate subject headings, plus the first author's name, the publication abbreviation, month, and year, and inclusive pages. Note that the item title is found only under the primary entry in the Author Index.

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- Client-server systems**
- A Utility Model for Photo Selection in Mobile Crowdsensing. *Zhou, T.*, +, *TMC Jan. 2021 48-62*
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- Clustering algorithms**
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- Coal mining**
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- Adversarial Deep Learning for Over-the-Air Spectrum Poisoning Attacks. *Sagduyu, Y.E.*, +, *TMC Feb. 2021 306-319*
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- Interference Characterization in Underlay Cognitive Networks With Intra-Network and Inter-Network Dependence. *Okegbile, S.D.*, +, *TMC Oct. 2021 2977-2991*
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- Collision avoidance**
- GazMon: Eye Gazing Enabled Driving Behavior Monitoring and Prediction. *Fan, X.*, +, *TMC April 2021 1420-1433*
- Commerce**
- A Truthful and Near-Optimal Mechanism for Colocation Emergency Demand Response. *Chen, J.*, +, *TMC Sept. 2021 2728-2744*
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- PicSys: Energy-Efficient Fast Image Search on Distributed Mobile Networks. *Felemban, N.*, +, *TMC April 2021 1574-1589*
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- Relay Node Placement in Wireless Sensor Networks: From Theory to Practice. *Liang, W.*, +, *TMC April 2021 1602-1613*
- Throughput-Optimal Broadcast in Wireless Networks with Point-to-Multi-point Transmissions. *Sinha, A.*, +, *TMC Jan. 2021 232-246*
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- A Fault-Tolerant Early Classification Approach for Human Activities Using Multivariate Time Series. *Gupta, A.*, +, *TMC May 2021 1747-1760*
- A Multi-Trip Task Assignment for Early Target Inspection in Squads of Aerial Drones. *Bartolini, N.*, +, *TMC Nov. 2021 3099-3116*
- AdaDeep: A Usage-Driven, Automated Deep Model Compression Framework for Enabling Ubiquitous Intelligent Mobiles. *Liu, S.*, +, *TMC Dec. 2021 3282-3297*
- Implementing The Abstract MAC Layer in Dynamic Networks. *Yu, D.*, +, *TMC May 2021 1832-1845*
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- Computer architecture**
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- Computer centers**
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- Performance Modeling of Softwarized Network Services Based on Queuing Theory With Experimental Validation. *Prados-Garzon, J.*, +, *TMC April 2021 1558-1573*
- Computer crime**
- Towards Automatic Detection of Nonfunctional Sensitive Transmissions in Mobile Applications. *Fu, H.*, +, *TMC Oct. 2021 3066-3080*
- Computer games**
- Interaction-Oriented Service Entity Placement in Edge Computing. *Liang, Y.*, +, *TMC March 2021 1064-1075*
- Computer network management**
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- Computer network performance evaluation**
- Fair Configuration Scheme for Random Access in NB-IoT with Multiple Coverage Enhancement Levels. *Harwahyu, R.*, +, *TMC April 2021 1408-1419*
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- Computer networks**
- Portfolio Optimization in Traffic Offloading: Concept, Model, and Algorithms. *Xu, D.*, +, *TMC Feb. 2021 691-706*
- Computer vision**
- Augur: Modeling the Resource Requirements of ConvNets on Mobile Devices. *Lu, Z.*, +, *TMC Feb. 2021 352-365*
- Computer Vision-Assisted 3D Object Localization via COTS RFID Devices and a Monocular Camera. *Wang, Z.*, +, *TMC March 2021 893-908*
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- Video Stabilization for Camera Shoot in Mobile Devices via Inertial-Visual State Tracking. *Han, F.*, +, *TMC April 2021 1714-1729*
- Concatenated codes**
- ChromaCode: A Fully Imperceptible Screen-Camera Communication System. *Zhang, K.*, +, *TMC March 2021 861-876*
- Concave programming**
- Slow Beam Steering and NOMA for Indoor Multi-User Visible Light Communications. *Eroglu, Y.S.*, +, *TMC April 2021 1627-1641*
- Condition monitoring**
- RED: RFID-Based Eccentricity Detection for High-Speed Rotating Machinery. *He, Y.*, +, *TMC April 2021 1590-1601*
- Contracts**
- Contract Design in Hierarchical Game for Sponsored Content Service Market. *Xiong, Z.*, +, *TMC Sept. 2021 2763-2778*
- Control engineering computing**
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- Convex programming**
- Collaboratively Replicating Encoded Content on RSUs to Enhance Video Services for Vehicles. *Zhou, Y.*, +, *TMC March 2021 877-892*
- Energy Optimization of Wireless Visual Sensor Networks With the Consideration of the Desired Target Coverage. *Ghazalian, R.*, +, *TMC Sept. 2021 2795-2807*
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- NOMA-Based Scalable Video Multicast in Mobile Networks With Statistical Channels. *Zhang, M.*, +, *TMC June 2021 2238-2253*
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- Convolution**
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Couplings

Operation State Scheduling Towards Optimal Network Utility in RF-Powered Internet of Things. *Li, S.*, +, *TMC Nov. 2021 3117-3130*

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Pedestrian Flow Estimation Through Passive WiFi Sensing. *Huang, B.*, +, *TMC April 2021 1529-1542*

Cyber-physical systems

Secure Information Fusion using Local Posterior for Distributed Cyber-Physical Systems. *Liu, X.*, +, *TMC May 2021 2041-2054*

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Data compression

An Inter-Data Encoding Technique that Exploits Synchronized Data for Network Applications. *Nam, W.*, +, *TMC Jan. 2021 76-92*

Data dissemination

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PACE: Privacy-Preserving and Quality-Aware Incentive Mechanism for Mobile Crowdsensing. *Zhao, B.*, +, *TMC May 2021 1924-1939*

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Distributed Deep Learning Optimized System over the Cloud and Smart Phone Devices. *Jiang, H.*, +, *TMC Jan. 2021 147-161*

Learning-Based Mobile Edge Computing Resource Management to Support Public Blockchain Networks. *Asheralieva, A.*, +, *TMC March 2021 1092-1109*

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An Indirect Eavesdropping Attack of Keystrokes on Touch Screen through Acoustic Sensing. *Yu, J.*, +, *TMC Feb. 2021 337-351*

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On the Data Quality in Privacy-Preserving Mobile Crowdsensing Systems with Untruthful Reporting. *Zhao, C.*, +, *TMC Feb. 2021 647-661*

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Towards a Compressive-Sensing-Based Lightweight Encryption Scheme for the Internet of Things. *Xue, W.*, +, *TMC Oct. 2021 3049-3065*

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An Incentive-Aware Job Offloading Control Framework for Multi-Access Edge Computing. *Li, L.*, +, *TMC Jan. 2021 63-75*

Leveraging UAVs for Coverage in Cell-Free Vehicular Networks: A Deep Reinforcement Learning Approach. *Samir, M.*, +, *TMC Sept. 2021 2835-2847*

Decision theory

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Decision trees

Unobtrusive Stress Assessment Using Smartphones. *Maxhuni, A.*, +, *TMC June 2021 2313-2325*

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How Much Benefit Can Dynamic Frequency Scaling Bring to WiFi?. *Wang, Z.*, +, *TMC March 2021 1046-1063*

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- RFID tags**
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- Road accidents**
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- Road safety**
- Distributed and Adaptive Reservation MAC Protocol for Beaconing in Vehicular Networks. *Mosavat-Jahromi, H.*, +, *TMC Oct. 2021 2936-2948*
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- Roads**
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- Robot vision**
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- Splines (mathematics)**
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- Stability analysis**
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- Stability criteria**
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- State estimation**
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- Steering systems**
- Real-Time Detection for Drowsy Driving via Acoustic Sensing on Smartphones. *Xie, Y., +, TMC Aug. 2021 2671-2685*
- Stereo image processing**
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- Stochastic programming**
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- Storage management**
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- Storms**
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- Support vector machines**
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- Switches**
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- Radio transceivers**
- A Link-Layer Synchronization and Medium Access Control Protocol for Terahertz-Band Communication Networks. *Xia, Q.*, +, *TMC Jan. 2021 2-18*
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- Radiocommunication**
- Wireless Power Transfer with Information Asymmetry: A Public Goods Perspective. *Zhang, M.*, +, *TMC Jan. 2021 276-291*
- Wireless-Assisted Key Establishment Leveraging Channel Manipulation. *Fang, S.*, +, *TMC Jan. 2021 263-275*
- Radiofrequency identification**
- A Near-Optimal Protocol for the Grouping Problem in RFID Systems. *Wang, X.*, +, *TMC April 2021 1257-1272*
- Accurate Localization of Tagged Objects Using Mobile RFID-Augmented Robots. *Liu, X.*, +, *TMC April 2021 1273-1284*
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- Spatio-Temporal Correlation of Interference in MANET Under Spatially Correlated Shadowing Environment. *Kimura, T.*, +, *TMC April 2021 1642-1655*
- Stochastic Channel Access in Underwater Networks With Statistical Interference Modeling. *Guan, Z.*, +, *TMC Oct. 2021 3020-3033*
- Ultra-Dense Networks: A Holistic Analysis of Multi-Piece Path Loss, Antenna Heights, Finite Users and BS Idle Modes. *Ding, M.*, +, *TMC April 2021 1702-1713*
- Radiofrequency power transmission**
- Connectivity-Constrained Placement of Wireless Chargers. *Yu, N.*, +, *TMC March 2021 909-927*
- Wireless Power Transfer with Information Asymmetry: A Public Goods Perspective. *Zhang, M.*, +, *TMC Jan. 2021 276-291*
- Radionavigation**
- Accurate Localization of Tagged Objects Using Mobile RFID-Augmented Robots. *Liu, X.*, +, *TMC April 2021 1273-1284*
- ezNavi: An Easy-to-Operate Indoor Navigation System Based on Pedestrian Dead Reckoning and Crowdsourced User Trajectories. *Pan, M.*, +, *TMC Feb. 2021 488-501*
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- Outage in Motorway Multi-Lane VANETs With Hardcore Headway Distance Using Synthetic Traces. *Koufos, K.*, +, *TMC July 2021 2445-2456*
- Randomized algorithms**
- Maximizing Fairness for Resource Allocation in Heterogeneous 5G Networks. *Pratap, A.*, +, *TMC Feb. 2021 603-619*
- Rayleigh channels**
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- Receivers**
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- Differentially Private Unknown Worker Recruitment for Mobile Crowdsensing Using Multi-Armed Bandits. *Zhao, H.*, +, *TMC Sept. 2021 2779-2794*
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- BuildSenSys: Reusing Building Sensing Data for Traffic Prediction With Cross-Domain Learning. *Fan, X.*, +, *TMC June 2021 2154-2171*
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- Redundancy**
- Efficient Tag Grouping via Collision Reconciliation and Data Compression. *Wang, X.*, +, *TMC May 2021 1817-1831*
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Switches

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