2016 Index
IEEE Transactions on Emerging Topics in Computing
Vol. 4

This index covers all technical items—papers, correspondence, reviews, etc.—that appeared in this periodical during 2016, and items from previous years that were commented upon or corrected in 2016. 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.

AUTHOR INDEX

A

Abdelrahman, O.H., see Gorbil, G., TETC Jan.-March 2016 113-127
Ansari, F., see Khobreh, M., TETC July-Sept. 2016 462-473

B

Barthe, L., see Bruguier, F., TETC Jan.-March 2016 60-72
Benoit, P., see Bruguier, F., TETC Jan.-March 2016 60-72
Berkers, H.A., see Khobreh, M., TETC July-Sept. 2016 462-473
Bernardini, R., and Rinaldo, R., Theoretical Limits of Helperless Stabilizers for Physically Unclonable Constants; TETC Jan.-March 2016 73-87
Blom, H.A.P., see Bouarfa, S., TETC Jan.-March 2016 9-20
Bouarfa, S., Blom, H.A.P., and Curran, R., Agent-Based Modeling and Simulation of Coordination by Airline Operations Control; TETC Jan.-March 2016 9-20
Bowree, M., see Bruguier, F., TETC Jan.-March 2016 60-72
Branco, P., see Sylla, C., TETC July-Sept. 2016 439-449
Brown, I., see Nugraha, Y., TETC July-Sept. 2016 475-486
Bullo, M., see Li, H., and Wang, P., IP Address Lookup by Using GPU; TETC April-June 2016 187-198
Chang, C., see Huang, J., TETC April-June 2016 252-261
Chang, Y., and Hsueh, C., Range-Enhanced Packet Classification Design on FPGA; TETC April-June 2016 214-224
Chao, H., see Zhang, H., TETC April-June 2016 199-213
Chen, S., see Thilakanathan, D., TETC April-June 2016 301-315
Chu, H., Li, T., and Wang, P., Efficient Multi-cast Delivery for Data Redundancy Minimization Over Wireless Data Centers; TETC April-June 2016 225-241
Corradi, A., see Cardone, G., TETC Jan.-March 2016 21-32
Corradin, M., see Allodi, L., TETC Jan.-March 2016 35-46
Coutinho, C.P., see Sylla, C., TETC July-Sept. 2016 439-449
Curran, R., see Bouarfa, S., TETC Jan.-March 2016 9-20

D

Demartini, C., see Laplante, P.A., TETC July-Sept. 2016 382-384
Di Natale, G., and Zanero, S., Editorial; TETC Jan.-March 2016 33-34
Dong, M., see Li, H., TETC April-June 2016 266-277
Duan, Q., see Huang, J., TETC Oct.-Dec. 2016 475-486
Durlach, P.J., see Brusilovsky, P., TETC July-Sept. 2016 450-461

E


F

Fathi, M., see Khobreh, M., TETC July-Sept. 2016 462-473
Forte, D., see Rahman, M.T., TETC July-Sept. 2016 335-348
Foschini, L., see Cardone, G., TETC Jan.-March 2016 21-32
Fu, M., see Sun, D., TETC April-June 2016 278-289

G

Gelenbe, E., see Gorbil, G., TETC Jan.-March 2016 113-127
Georgakopoulos, D., see Ranjan, R., TETC April-June 2016 262-265
Gorbil, G., Abdelrahman, O.H., Pavlovska, M., and Gelenbe, E., Modeling and Analysis of RRC-Based Signalling Storms in 3G Networks; TETC Jan.-March 2016 113-127
Guerra, J., see Brusilovsky, P., TETC July-Sept. 2016 450-461
Guo, M., see Li, H., TETC April-June 2016 266-277
Guo, M., see Zeng, J., TETC Oct.-Dec. 2016 568-583

H

Haque, M.M., see Hasan, R., TETC Jan.-March 2016 128-141
Harris, R.S., and Hodges, C.B., Using Google Tools for Online Coursework: Student Perceptions; TETC July-Sept. 2016 385-391
SUBJECT INDEX

3G

3G mobile communication
Modelling and Analysis of RRC-Based Signalling Storms in 3G Networks. Gorbil, G., +, TETC Jan.–March 2016 113-127

4G

4G mobile communication
Modelling and Analysis of RRC-Based Signalling Storms in 3G Networks. Gorbil, G., +, TETC Jan.–March 2016 113-127

A

Aerospace electronics

Air traffic control
Agent-Based Modeling and Simulation of Coordination by Airline Operations Control. Bousafy, S., +, TETC Jan.–March 2016 9-20

Algorithm design and analysis

Antennas

Authorization


SafeProtect: Controlled Data Sharing With User-Defined Policies in Cloud-Based Collaborative Environment. Thilakanathan, D., +, TETC April–June 2016 301-315


Autonomous automobiles
Coordination in Large-Scale Socio-Technical Systems: Introduction to the Special Section. Zambonelli, F., +, TETC Jan.–March 2016 5-8

B

Base stations


Big data
Advances in Methods and Techniques for Processing Streaming Big Data in Datacentre Clouds. Ranjan, R., +, TETC April–June 2016 262-265

Guest Editorial: Special Section on Emerging Topics in the Design of High Performance Internet Routers. Tseng, Y., +, TETC April–June 2016 177-178

Pricing and Repurchasing for Big Data Processing in Multi-Clouds. Li, H., +, TETC April–June 2016 266-277

Biological system modeling
Coordination in Large-Scale Socio-Technical Systems: Introduction to the Special Section. Zambonelli, F., +, TETC Jan.–March 2016 5-8

Biometrics (access control)

Bit error rate

Business data processing

C

Cache storage
IP Address Lookup by Using GPU. Chu, H., +, TETC April–June 2016 187-198

Cellular networks

Client-server systems

Cloud computing
Efficient Multicast Delivery for Data Redundancy Minimization Over Wireless Data Centers. Chuang, C., +, TETC April–June 2016 225-241

Non-Intrusive Anomaly Detection With Streaming Performance Metrics and Logs for DevOps in Public Clouds: A Case Study in AWS. Sun, D., +, TETC April–June 2016 278-289

Pricing and Repurchasing for Big Data Processing in Multi-Clouds. Li, H., +, TETC April–June 2016 266-277


SafeProtect: Controlled Data Sharing With User-Defined Policies in Cloud-Based Collaborative Environment. Thilakanathan, D., +, TETC April–June 2016 301-315

CMOS integrated circuits

Collision avoidance

Complex networks

Computational complexity
Efficient Multicast Delivery for Data Redundancy Minimization Over Wireless Data Centers. Chuang, C., +, TETC April–June 2016 225-241


Computational modeling
Coordination in Large-Scale Socio-Technical Systems: Introduction to the Special Section. Zambonelli, F., +, TETC Jan.–March 2016 5-8


Computer aided instruction


Computer architecture

+ Check author entry for coauthors
Computer centers
Efficient Multicast Delivery for Data Redundancy Minimization Over Wireless Data Centers. Chuang, C., +, TETC April-June 2016 225-241


Computer crime

Computer games

Computer network security

Computer science education
Gradually Learning Programming Supported by a Growable Programming Language. Cazzola, W., +, TETC July-Sept. 2016 404-415


Computer security

Concurrency (computers)

Content-addressable storage
Heterogeneous Flow Table Distribution in Software-Defined-Networks. Huang, J., +, TETC April-June 2016 252-261

Convergence

Courseware

Cryptography protocols


Cryptography


Data acquisition
ParticipAct: A Large-Scale Crowdsensing Platform. Cardone, G., +, TETC Jan-March 2016 21-32

Data collection

Data compression

Data models

Data privacy


Theoretical Limits of Helperless Stabilizers for Physically Uncloneable Constants. Bernardini, R., +, TETC Jan-March 2016 73-87

Data protection
Data Protection for Online Social Networks and P-Stability for Graphs. Torra, V., +, TETC July-Sept. 2016 374-381

Data structures
IP Address Lookup by Using GPU. Chu, H., +, TETC April-June 2016 187-198

Delays

Design methodology

Device-to-device communication

Digital signatures

Directed graphs

Discrete wavelet transforms

Distributed algorithms

Document handling

Downlink

E

Education


Education courses

Educational courses


Educational institutions
Electronic engineering computing
Electronic engineering education
Embedded systems
Energy conservation
Energy storage
Engineering education
Entropy
Non-Intrusive Anomaly Detection With Streaming Performance Metrics and Logs for DevOps in Public Clouds: A Case Study in AWS. Sun, D., +, TETC April-June 2016 278-289
Error analysis
Estimation
Field programmable gate arrays
Range-Enhanced Packet Classification Design on FPGA. Chang, Y., +, TETC April-June 2016 214-224
Forecasting theory
Forward error correction
Further education
Game theory
Graph theory
Data Protection for Online Social Networks and P-Stability for Graphs. Torra, V., +, TETC July-Sept. 2016 374-381
Graphs processing units
IP Address Lookup by Using GPU. Chu, H., +, TETC April-June 2016 187-198
Green communication

Handover
High speed rail transportation
Home automation
Human factors
Human resource management
Image coding
Image sensors
Integrated circuits
Internet
Dealing With Mobility-Caused Outdated Mappings in Networks With Identifier/Locator Separation. Zhang, H., +, TETC April-June 2016 199-213
Guest Editorial: Special Section on Emerging Topics in the Design of High Performance Internet Routers. Tseng, Y., +, TETC April-June 2016 177-178
Range-Enhanced Packet Classification Design on FPGA. Chang, Y., +, TETC April-June 2016 214-224
Internet of things
Advances in Methods and Techniques for Processing Streaming Big Data in Datacentre Clouds. Ranjan, R., +, TETC April-June 2016 262-265
Pricing and Repurchasing for Big Data Processing in Multi-Clouds. Li, H., +, TETC April-June 2016 266-277
Invasive software
IP networks
IP Address Lookup by Using GPU. Chu, H., +, TETC April-June 2016 187-198

+ Check author entry for coauthors

IEEE 802.11 Standards


IEEE TRANSACTIONS ON EMERGING TOPICS IN COMPUTING, VOL. 5, NO. 1, MARCH 2017

6
Labour resources

Linear programming

Linguistics

Location-based services

Low-power electronics

Lyapunov methods

Media streaming
Advances in Methods and Techniques for Processing Streaming Big Data in Datacentre Clouds. Ranjan, R., +, TETC April - June 2016 262-265


Medical information systems

Medical services

Message authentication

Mobile computing


Mobile communication


Multi-agent systems
Agent-Based Modeling and Simulation of Coordination by Airline Operations Control. Bouarfa, S., +, TETC Jan. - March 2016 9-20

Multicast communication
Efficient Multicast Delivery for Data Redundancy Minimization Over Wireless Data Centers. Chuang, C., +, TETC April - June 2016 225-241

Multimedia communication

Packet loss

Parallel architectures
IP Address Lookup by Using GPU. Chu, H., +, TETC April - June 2016 187-198

Pattern classification
Non-Intrusive Anomaly Detection With Streaming Performance Metrics and Logs for DevOps in Public Clouds: A Case Study in AWS. Sun, D., +, TETC April - June 2016 278-289

Peerto-peer computing

Polynomial approximation
Data Protection for Online Social Networks and P-Stability for Graphs. Torra, V., +, TETC July - Sept. 2016 374-381


Power aware computing


Power consumption

Power demand

Pricing
Pricing and Repurchasing for Big Data Processing in Multi-Clouds. Li, H., +, TETC April - June 2016 266-277

Programming
Gradually Learning Programming Supported by a Growable Programming Language. Cazzola, W., +, TETC July - Sept. 2016 404-415

Programming languages
Gradually Learning Programming Supported by a Growable Programming Language. Cazzola, W., +, TETC July - Sept. 2016 404-415

Protocols

Psychology
Agent-Based Modeling and Simulation of Coordination by Airline Operations Control. Bouarfa, S., +, TETC Jan. - March 2016 9-20
Q

Quality of service


R

Radio frequency identification

Radio-over-fiber communication

Rail transportation

Receivers

Redundancy


Relaxation

Renewable energy sources

Resource allocation

Resource management

RFID tags

Robot kinematics
Coordination in Large-Scale Socio-Technical Systems: Introduction to the Special Section. Zambonelli, F., +, TETC Jan.-March 2016 5-8

S

Scheduling

Security of data

Non-Intrusive Anomaly Detection With Streaming Performance Metrics and Logs for DevOps in Public Clouds: A Case Study in AWS. Sin, D., +, TETC April-June 2016 278-289


Theoretical Limits of Helperless Stabilizers for Physically Unclonable Constants. Bernardini, R., +, TETC Jan.-March 2016 73-87


Sensors
Coordination in Large-Scale Socio-Technical Systems: Introduction to the Special Section. Zambonelli, F., +, TETC Jan.-March 2016 5-8


Smart home

Smart phones


Social networking (online)
Data Protection for Online Social Networks and P-Stability for Graphs. Torra, V., +, TETC July-Sept. 2016 374-381

Sociotechnical systems
Coordination in Large-Scale Socio-Technical Systems: Introduction to the Special Section. Zambonelli, F., +, TETC Jan.-March 2016 5-8

Software defined networking
Heterogeneous Flow Table Distribution in Software-Defined Networks. Huang, J., +, TETC April-June 2016 252-261

Range-Enhanced Packet Classification Design on FPGA. Chang, Y., +, TETC April-June 2016 214-224


Special issue and sections
Advances in Methods and Techniques for Processing Streaming Big Data in Datacentre Clouds. Ranjan, R., +, TETC April-June 2016 262-265


Guest Editorial: Special Section on Emerging Topics in the Design of High Performance Internet Routers. Tseng, Y., +, TETC April-June 2016 177-178

Stability analysis

Steganography

Storage management
SafeProtect: Controlled Data Sharing With User-Defined Policies in Cloud-Based Collaborative Environment. Thilakanathan, D., +, TETC April-June 2016 301-315

System-level design

Teaching
Gradually Learning Programming Supported by a Growable Programming Language. Cazzola, W., +, TETC July-Sept. 2016 404-415


+ Check author entry for coauthors
Telecommunication congestion control
Modeling and Analysis of RRC-Based Signalling Storms in 3G Networks. Gorbil, G., +, TETC Jan.-March 2016 113-127

Telecommunication network routing
IP Address Lookup by Using GPU. Chu, H., +, TETC April-June 2016 187-198

Telecommunication security
Modeling and Analysis of RRC-Based Signalling Storms in 3G Networks. Gorbil, G., +, TETC Jan.-March 2016 113-127

Telecommunication services
Guest Editorial: Special Section on Emerging Topics in the Design of High Performance Internet Routers. Tseng, Y., +, TETC April-June 2016 177-178

Training

Transmitters

U

Uplink

V

Video coding

Video surveillance

Virtual machines

Virtualization

Vocational training

Web services
Non-Intrusive Anomaly Detection With Streaming Performance Metrics and Logs for DevOps in Public Clouds: A Case Study in AWS. Sun, D., +, TETC April-June 2016 278-289

WiMAX

Wireless channels

Wireless sensor networks

+ Check author entry for coauthors