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Program

Time Diana Les Etoiles Minerva Venus

Monday, July 6

09:00-10:30	Odyssey5G-S1: <i>Technical Session</i>	SCUCA-S1: <i>Smart City Services</i>	DMSS-S1: <i>Mobile Sensing</i>	PEDISWESA - S1: <i>Session 1</i>
11:00-12:30	Odyssey5g-S2: <i>Technical Session</i>	SCUCA-S2: <i>Smart Grid</i>	DMSS-S2: <i>Cloud-based Sensing and Resource Management</i>	PEDISWESA - S2: <i>Session 2</i>
14:00-15:30	SFCS - S1: <i>Networked Security and Digital Forensics</i>	SCUCA-S3: <i>Smart Transportation & Security</i>	MoCS-S1: <i>Technologies and services for Smart Cities</i>	PEDISWESA - S3: <i>Session 3</i>
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16:00-17:30	SFCS - S2: <i>Operating System Forensics</i>		MoCS-S2: <i>Management of Cloud service</i>	

Tuesday, July 7

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14:00-15:30	S8: <i>Social Networks and Crowdsourcing</i>	S5: <i>SDN and Overlay Networks I</i>	S7: <i>QoS and QoE, Resource Management</i>	S6: <i>Vehicular Networks II</i>
16:00-17:30	S12: <i>Signal, Speech, Image and Video Processing</i>	S9: <i>SDN and Overlay Networks II</i>	S11: <i>Fault Tolerance and Error Recovery</i>	S10: <i>Sensor Networks and Mobile Sensing I</i>

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Thursday, July 9

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11:00-12:30	S32: <i>Optical Networking</i>	S29: <i>Future Internet I</i>	S31: <i>Modeling and Simulation</i>	S30: <i>Sensor Networks and Mobile Sensing III</i>
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Monday, July 6

Monday, July 6, 09:00 - 10:30

Odyssey5G-S1 (Full Papers): Technical Session

Prof Ioannis Krikidis

Room: Diana

Performance Analysis of a Rate-Adaptive Bandwidth Allocation Scheme in 5G Mobile Networks

Demetris Posnakides, Constandinos X. Mavromoustakis and Georgios Skourletopoulos (University of Nicosia, Cyprus); George Mastorakis (Technological Educational Institute of Crete, Greece); Evangelos Pallis (Technological Educational Institute of Crete, Greece); Jordi Mongay Batalla (Warsaw University of Technology & National Institute of Telecommunications, Poland)
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Game-Theoretic Based Scheduling for Demand-Side Management in 5G Smart Grids

Firooz B. Saghezchi (Instituto de Telecomunicações, Portugal); Fatemeh Saghezchi (Universidade de Aveiro, Portugal); Alberto Nascimento (University Madeira, Portugal); Jonathan Rodriguez (Instituto de Telecomunicações, Portugal)
pp. 8-12

Relaying for 5G: A Novel Low-Error Relaying Protocol

Chunbo Luo (University of the West of Scotland, United Kingdom); Gerard P. Parr (University of Ulster, United Kingdom); Sally I McClean (University of Ulster, Coleraine, United Kingdom); Cathryn Peoples (University of Ulster, United Kingdom); Xinheng Wang, James Nightingale and Qi Wang (University of the West of Scotland, United Kingdom)
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SCUCA-S1 (Full Papers): Smart City Services

Room: Les Etoiles

A Map-Based Platform for Smart Mobility Services

Pietro Marchetta (University of Naples Federico II, Italy); Eduard Natale (University of Napoli, Federico II, Italy); Antonio Pescapé (University of Napoli Federico II, Italy); Alessandro Salvi (University of Napoli, Italy); Stefania Santini ("Federico II", Italy)

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Advanced Observation and Telemetry Heart System Utilizing Wearable ECG Device and a Cloud Platform

Ioannis Chatzigiannakis (Sapienza University of Rome & Computer Technology Institute & Press (CTI), Italy); Emil Valchinov and Athanasios Antoniou (Computer Technology Institute and Press Diophantus, Greece); Athanasios Kalogeras (Computer Technology Institute and Industrial System Institute, Greece); Christos Alexakos and Panagiotis Konstantinopoulos (Computer Technology Institute and Press Diophantus, Greece)

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Federated Data Centers as Smart City Stabilizing Factors

Alexis I. Aravanis (National Technical University of Athens, Greece); Terpsichori-Helen Velivassaki (Technological Institute of Sterea Ellada & SingularLogic, Greece); Artemis C. Voulkidis (Synelixis Solutions Ltd. & National Technical University of Athens, Greece); Theodore Zahariadis (TEI of Chalkida & Synelixis Solutions Ltd, Greece); Panayotis Cottis (National Technical University of Athens, Greece)

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DMSS-S1: Mobile Sensing

Room: Minerva

Design and Implement Delay-Aware QoS Scheme for 3GPP LTE/LTE-A Networks for Mixed Traffic Flow

Myasar Tabany (The University of Reading & Wireless Communications Research Lab, United Kingdom); Chris G Guy (The University of Reading, United Kingdom)

pp. 38-44

Advanced Vehicular Sensing of Road Artifacts and Driver Behavior

Najah A. Abu Ali (UAEU, UAE)

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Benchmarking leading-edge mobile devices for data-intensive distributed mobile cloud applications

Syeda Nayyab Zia Naqvi and Tim Vansteenkiste-Muyllle (iMinds-Distrinet, Belgium); Yolande Berbers (Katholieke Universiteit Leuven, Belgium)

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PEDISWESA - S1 (Full Papers): Session 1

Networks and Protocols

Room: Venus

Performace of Two-hop Routing in Delay Tolerant Networks with Selfish Nodes

Yahui Wu, Hongbin Huang and Su Deng (National University of Defense Technology, P.R. China);
Chaofan Dai (National University of Defense Technolog, P.R. China)
pp. 58-63

A First Study on Using MPTCP to Reduce Latency for Cloud Based Mobile Applications

Karl-Johan Grinnemo and Anna Brunstrom (Karlstad University, Sweden)
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Admission Control Based on WRR in WiMAX Networks....N/A

Lynda Mokdad (Université de Paris 12 & Laboratoire LACL, France); Jean Michel Fourneau
(University of Versailles St Quentin, France); Walid Serrai (USTHB University, Algeria);
Abdelkrim Abdelli (USTHB University- Algiers, Algeria)

A Probabilistic Model to Corroborate Three Attacks in Vehicular Ad Hoc Networks

Amar Bensaber Boucif (University of Quebec, Trois Rivieres, Canada); Karim Laroussi (Université
du Québec à Trois-Rivières, Canada); Mhamed Mesfioui (University of Quebec at Trois-Rivieres,
Canada); Ismail Biskri (Quebec University at Trois-Rivieres, Canada)
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Monday, July 6, 11:00 - 12:30

Odyssey5g-S2 (Full Papers): Technical Session

Prof Andreas Pitsillides

Room: Diana

Predistortion and Postdistortion of Wireless Power Amplifiers for 4G and B4G Wireless Systems....N/A

Vassilis Kodogiannis, Mina Vaskovic, Jelena Mijuskovic and Djuradj Budimir (University of
Westminster, United Kingdom)

Compensation of Nonlinear Distortion in MIMO Wireless Systems....N/A

Milica Bozic (University of Westminster, United Kingdom); Jelena Mijuskovic (University of
Belgrade, Serbia); Djuradj Budimir (University of Westminster, United Kingdom)

SCUCA-S2 (Full Papers): Smart Grid

Room: Les Etoiles

Online Electric Vehicle Recharge Scheduling Under Different e-Mobility Operator's Pricing Models

Isabel Amigo (Telecom ParisTech (Ecole Nationale Superieure des Telecommunications), France);
Maurice Gagnaire (Telecom Paristech & Institut Telecom, France)
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Fair Pricing Mechanism for Coalitions in Rural Areas

Vasileios Botsis (University of Patras & Computer Technology Institute, Greece); Nikolaos D.
Doulamis (National Technical University of Athens, Greece); Emmanouel Varvarigos (University
of Patras & Computer Technology Institute, Greece)
pp. 83-90

Demand Allocation in Local RES Electricity Market Among Multiple Microgrids and Multiple Utilities Through Aggregators

Vasileios Botsis (University of Patras & Computer Technology Institute, Greece); Nikolaos D. Doulamis and Anastasios D Doulamis (National Technical University of Athens, Greece); Emmanouel Varvarigos (University of Patras & Computer Technology Institute, Greece)
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DMSS-S2: Cloud-based Sensing and Resource Management

Room: Minerva

Evaluating a Cloud Federation Ecosystem to Reduce Carbon Footprint by Moving Computational Resources

Maurizio Giacobbe, Antonio Celesti, Maria Fazio, Massimo Villari and Antonio Puliafito (University of Messina, Italy)
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RT-SENMOS: Reliable Transport for Sensor Networks with Mobile Sinks

Charilaos Stais and George Xylomenos (Athens University of Economics and Business, Greece)
pp. 105-110

Utilizing CAN-Bus and Smartphones to Enforce Safe and Responsible Driving

Abd-Elhamid M. Taha and Nidal Nasser (Alfaisal University, Saudi Arabia)
pp. 111-115

Distributed Delivery of Popular Videos over Ultra-dense Networks

Jia-Shung Wang and Chia-Cheng Yen (National Tsing Hua University, Taiwan)
pp. 116-121

PEDISWESA - S2 (Full Papers): Session 2

Traffic Scheduling and Task Distribution

Room: Venus

Time Petri Nets for Performance Evaluation of Composite Web Services Architectures

Abdelkrim Abdelli (USTHB University- Algiers, Algeria); Walid Serrai (USTHB University, Algeria); Lynda Mokdad (Université de Paris 12 & Laboratoire LACL, France); Youcef Hammal (Université des Sciences et de la Technologie Houari Boumediene, Algiers, Algeria)
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Extensive Analysis of the Kad-based Distributed Computing System DuDE

Peter Danielis, Jan Skodzik, Vlado Altmann, Benjamin Kappel and Dirk Timmermann (University of Rostock, Germany)
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A Comparative Study of Mobile Database Transaction Models

Ramzi A. Haraty (Lebanese American University, Lebanon)
pp. 134-139

Unequal Error Protection for S3AC Coding Based on Expanding Window Fountain Codes

Liuyue Su, Ge Gao, Cheng Yang, Ruimin Hu and Xiaochen Wang (Wuhan University, P.R. China);
Xin Su (Hunan University, P.R. China)
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Monday, July 6, 14:00 - 15:30

SFCS - S1 (Full Papers): Networked Security and Digital Forensics

Room: Diana

SFCS - S1.1 Forensic Analysis of Instagram and Path on an iPhone 5s Mobile Device

Reema Al Mushcab and Pavel Gladyshev (University College Dublin, Ireland)
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SFCS - S1.2 Inferring Relevance and Presence of Evidence in Service-Oriented and SaaS Architectures

Sameera Almulla (Khalifa University of Science, Technology & Research (KUSTAR), UAE);
Youssef Iraqi (Khalifa University, UAE); Stephen D. Wolthusen (Royal Holloway, University of
London, United Kingdom)
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SFCS - S1.3 Genetic Algorithm Based Intrusion Detection System for Wireless Body Area Networks

Geethapriya Thamilarasu (University of Washington Bothell, USA)
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SCUCA-S3 (Full Papers): Smart Transportation & Security

Room: Les Etoiles

Social-based Forwarding in Multi-channel Vehicular Networks

Matthias Sander Frigau (University of Manchester & Information Management Group, United
Kingdom)
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A Shim Layer for Heterogeneous Wireless Communications Scheduling in Intelligent Transport Systems

Cristian Roman, Peter Ball and Shumao Ou (Oxford Brookes University, United Kingdom)
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Internet of Things: Security Vulnerabilities and Challenges

Ioannis Andrea, Chrysostomos Chrysostomou and George Hadjichristofi (Frederick University,
Cyprus)
pp. 180-187

PEDISWESA - S3 (Full Papers): Session 3

Wireless Sensor Networks & Applications

Room: Venus

Distributed Sensor Network for Vehicles with Prior Right Detection

Róbert Žalman and Ján Kapitulík (University of Žilina, Slovakia); Michal Kochlan (University of Žilina & Faculty of Management Science and Informatics, Slovakia)
pp. 188-192

Monitoring of Water Level Based on Acoustic Emissions

Juraj Miček and Ondrej Karpiš (University of Žilina & Faculty of Management Science and Informatics, Slovakia); Veronika Olešnaníková (University of Žilina, Slovakia); Michal Kochlan (University of Žilina & Faculty of Management Science and Informatics, Slovakia)
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Monitoring and Recognition of Bird Population in Protected Bird Territory

Michal Hodon (University of Zilina, Slovakia); Peter Šarařin and Peter Ševčík (University of Žilina, Slovakia)
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Maximizing Performance of Low-Power WSN Node on the Basis of Event-Driven-Programming Approach

Michal Hodon, Michal Chovanec, Lukas Cechovic, Martin Hudik and Jana Milanova (University of Zilina, Slovakia); Michal Kochlan (University of Žilina & Faculty of Management Science and Informatics, Slovakia); Matus Jurecka (University of Zilina, Slovakia); Ján Kapitulík and Peter Ševčík (University of Žilina, Slovakia)
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Monday, July 6, 14:30 - 15:30

MoCS-S1: Technologies and services for Smart Cities

Room: Minerva

Discovery of Services in Smart Cities of Mobile Social Users

Michele Girolami (University of Pisa & ISTI-CNR, Italy); Stefano Chessa (Universita' di Pisa, Italy); Erina Ferro (Istituto di Scienze e Tecnologie dell'Informazione "Alessandro Faedo", Italy)
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Encryption as a Service for Smart Grid Advanced Metering Infrastructure

Md Mahmud Hasan and Hussein T Mouftah (University of Ottawa, Canada)
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Smartphones as Smart Cities Sensors: MCS Scheduling in the ParticipAct Project

Antonio Corradi (University of Bologna & CIRI ICT, Italy); Giovanni Curatola and Luca Foschini (University of Bologna, Italy); Raffaele Ianniello (University of Bologna - CIRI ICT, Italy); Carlos Roberto De Rolt (Universidade do Estado de Santa Catarina - UDESC, Italy)
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Monday, July 6, 16:00 - 17:30

SFCS - S2 (Full Papers): Operating System Forensics

Room: Diana

Finding Contextual Clues to Malware Using a Large Corpus

Neil Rowe (U.S. Naval Postgraduate School, USA)
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Forensic Analysis of Windows User Space Applications Through Heap Allocations

Michael Cohen (Google Inc, Switzerland)
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Events and Causal Factors Charting of Kernel Traces for Root Cause Analysis

Yi-Ching Liao and Hanno Langweg (Norwegian Information Security Laboratory, Norway)
pp. 245-250

MoCS-S2: Management of Cloud service

Room: Minerva

High performance fault-tolerance for clouds

Dimosthenis Kyriazis and Vasileios Anagnostopoulos (National Technical University of Athens, Greece); Andrea Arcangeli (Red Hat, Ireland); David Gilbert (Red Hat, United Kingdom); Dimitrios Kalogeras (National University of Athens, Greece); Ronen I Kat (IBM Research - Haifa, Israel); Cristian Klein (Umeå University, Sweden); Panagiotis Kokkinos (University of Patras, Greece); Yossi Kuperman and Joel Nider (IBM Research - Haifa, Israel); Petter Svärd and Luis Tomás (Umeå University, Sweden); Theodora Varvarigou (National Technical University of Athens, Greece); Emmanouel Varvarigos (University of Patras & Computer Technology Institute, Greece)
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Costs of a Federated and Hybrid Cloud Environment Aimed at MapReduce Video Transcoding

Alfonso Panarello, Antonio Celesti, Maria Fazio, Massimo Villari and Antonio Puliafito (University of Messina, Italy)
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Exploiting the FIWARE Cloud Platform to Develop a Remote Patient Monitoring System

Maria Fazio and Antonio Celesti (University of Messina, Italy); Fermin Galan Marquez (Telefonica, Italy); Alex Glikson (IBM, Israel); Massimo Villari (University of Messina, Italy)
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On QoS-aware Scheduling of Data Stream Applications over Fog Computing Infrastructures

Valeria Cardellini (University of Roma "Tor Vergata", Italy); Vincenzo Grassi and Francesco Lo Presti (Universita' di Roma Tor Vergata, Italy); Matteo Nardelli (University of Roma Tor Vergata, Italy)
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Tuesday, July 7

Tuesday, July 7, 09:00 - 10:30

K1 (Full Papers): Keynote 1

5G Tactile Internet-Challenges and opportunities
Hamid Aghvami, King's College London

3G and 4G are mainly content-centric networks. 5G is expected to be not only a fast and efficient content delivery network but also a communication platform to enable touching, monitoring, controlling and steering objects (things) remotely (Tactile Internet) to support a wide range of emerging and future applications in the vertical business sectors. As envisaged, 5G comprises heterogeneous networks, both cellular (wide-area) and non-cellular (local area) networks. What are not yet known are the design approach (evolutionary or revolutionary) and design road maps. The talk will address end-to-end 5G requirements, challenges and opportunities, and user, operator and service provider expectations. It will also discuss the potential use of the following mechanisms and techniques for the design of 5G Tactile networks: Software Defined Network (SDN) (Separation of control and data planes) Self-Organising Network (Extension of SDN for wireless segment) End-to-end Network Function Virtualization (NFV) (decoupling network functions run in software from physical elements of a network) Full automation (measurements, reporting and analytics) Spectrum extension, sharing, millimetre wave. These techniques offer other advantages such as easy and fast roll out, easy capacity and coverage expansion, easy network upgrading, support for multi-vendors' equipment, lower energy consumption, network sharing and more...

Tuesday, July 7, 11:00 - 12:30

S4 (Full Papers): Routing and Multicast

Room: Diana

A Message-Based Incentive Mechanism for Opportunistic Networking Applications

Vinicius Fernandes Mota and Daniel Fernandes Macedo (Federal University of Minas Gerais, Brazil); Yacine Ghamri-Doudane (University of la Rochelle, France); José-Marcos Nogueira (Federal University of Minas Gerais, Brazil)
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Energy-efficient Base Station Management in Heterogeneous Networking Environments

Georgios Kyriazis and Angelos Rouskas (University of Piraeus, Greece); George T. Karetzos (Technology Education Institute of Thessaly, Greece)
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A Two-dimensional Structured Overlay Based on Flexible Routing Tables

Masashi Hojo, Hiroya Nagao, Takehiro Miyao and Kazuyuki Shudo (Tokyo Institute of Technology, Japan)
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Discovering High-Impact Routing Events Using Traceroutes

Marco Di Bartolomeo, Valentino Di Donato, Maurizio Pizzonia, Claudio Squarcella and Massimo Rimondini (Roma Tre University, Italy)
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S1 (Full Papers): Internet and Cloud Applications

Room: Les Etoiles

Benchmark Applications Used in Mobile Cloud Computing: A Systematic Mapping Study....N/A

Francisco Airton Silva, Paulo Maciel, Eder Quesado, Germano Zaicaner and Matheus Dornelas (Federal University of Pernambuco, Brazil); Bruno Silva (Cin-UFPE Cidade Universitaria Recife - Pe - Brazil & UFPE, Brazil)

A Fine-Tuned Control-Theoretic Approach for Dynamic Adaptive Streaming Over HTTP

Maria Ito (Federal University of Pernambuco, Brazil); Daniel Bezerra (Universidade Federal de Pernambuco, Brazil); Stenio Fernandes and Djamel Hadj Sadok (Federal University of Pernambuco, Brazil); Géza Szabó (Ericsson Research, Hungary)
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Modeling User Interactions for Conversion Rate Prediction in M-Commerce

Gianni Fenu and Pier Luigi Pau (University of Cagliari, Italy)
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App2net: A Platform to Transfer and Configure Applications on Programmable Virtual Networks

Ricardo Luis dos Santos (Federal University of Rio Grande do Sul, Brazil); Oscar Mauricio Caicedo Rendon (University of Cauca, Colombia); Juliano Araujo Wickboldt and Lisandro Z Granville (Federal University of Rio Grande do Sul, Brazil)
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S3 (Full Papers): Network Design, Optimization, and Management

Room: Minerva

A Novel Tool for Cost-Efficient Broadband Development Through Infrastructure Sharing

Konstantinos Antonis (Technological Institute of Central Greece & Educational Technological Institute, Greece); Christos J Bouras (University of Patras CTI&P-Diophantus & University of Patras, Greece); Georgios Diles (Computer Engineering and Informatics Dept., University of Patras, Greece); Vasileios Kokkinos (CTI Diophantus and University of Patras, Greece); Leonidas Loukopoulos (Technological Institute of Central Greece, Greece)
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Benchmarking the Load Scalability of IPv6 Transition Technologies: a Black-Box Analysis

Marius Liviu Georgescu, Hiroaki Hazeyama, Takeshi Okuda, Youki Kadobayashi and Suguru Yamaguchi (Nara Institute of Science and Technology, Japan)
pp. 329-334

A Lightweight, Non-intrusive Approach for Orchestrating Autonomously-managed Network Elements

Christos Liaskos (Institute of Computer Science, Foundation of Research and Technology, Hellas, Greece)
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Analysing Traffic Flows Through Sampling: A Comparative Study

João Marco C. Silva, Paulo Carvalho and Solange Rito Lima (Centro Algoritmi, Universidade do Minho, Portugal)
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Improving Network Traffic Acquisition and Processing with the Java Virtual Machine

Ruediger Gad and Martin Kappes (Frankfurt University of Applied Sciences, Germany);
Inmaculada Medina-Bulo (University of Cádiz, Spain)
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S2 (Full Papers): Vehicular Networks I

Room: Venus

Prediction-based Connection Manager for Vehicular Networks

João Mendes (Instituto de Telecomunicações, Universidade de Aveiro, Portugal); Filipe Neves (Veniam, Portugal); Ricardo Matos and Susana Sargento (Instituto de Telecomunicações, Universidade de Aveiro, Portugal)
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On the Performance of Localization Prediction Methods for Vehicular Ad Hoc Networks

Leandro N. Balico (Federal University of Roraima - UFRR, Brazil); Horacio Fernandes Oliveira (Federal University of Amazonas, Brazil); Eflen Lopes Souza (Federal University of Western Para, Brazil); Richard W. Pazzi (University of Ontario Institute of Technology, Canada); Eduardo Freire Nakamura (Universidade Federal do Amazonas, Brazil)
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A Prediction-based Routing Algorithm for Vehicular Ad Hoc Networks

Leandro N. Balico (Federal University of Roraima - UFRR, Brazil); Horacio Fernandes Oliveira and Raimundo Barreto (Federal University of Amazonas, Brazil); Antonio A.F. Loureiro (Federal University of Minas Gerais, Brazil); Richard W. Pazzi (University of Ontario Institute of Technology, Canada)
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Communication as a Service for Cloud VANETs

Mouna Garai (Communication Networks and Security Research Lab., Tunisia); Slim Rekhis (University of Carthage & Communication Networks and Security Research Lab., Tunisia); Noureddine Boudriga (Communication Networks and Security Research Lab., University of Carthage, Tunisia)
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Tuesday, July 7, 14:00 - 15:30

S8 (Full Papers): Social Networks and Crowdsourcing

Room: Diana

Social Amplification Factor for Mobile Crowd Sensing: The ParticipAct Experience

Michele Girolami (University of Pisa & ISTI-CNR, Italy); Stefano Chessa (Universita' di Pisa, Italy); Luca Foschini (University of Bologna, Italy); Raffaele Ianniello (University of Bologna - CIRI ICT, Italy); Antonio Corradi (University of Bologna & CIRI ICT, Italy)
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Mining User Check-in Features for Location Classification in Location-based Social Networks

Chen Yu (Huazhong University of Science and Technology & School of Computer Science and Technology, P.R. China); Yang Liu, Dezhong Yao, Hai Jin and Feng Lu (Huazhong University of Science and Technology, P.R. China); Hanhua Chen (HUST, P.R. China); Qiang Ding (Huawei Technologies Co., P.R. China)
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Differential Spread Strategy: An Incentive for Advertisement Dissemination....N/A

Xiao Chen (Institute of Computing Technology, Chinese Academy of Sciences & University of Chinese Academy of Sciences, P.R. China); Min Liu (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Yaqin Zhou (Singapore University of Technology and Design, Singapore); Zhongcheng Li (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Shuang Chen (Institute of Computing Technology Chinese Academy of Sciences, P.R. China); Xiangnan He (National University of Singapore, Singapore)

S5 (Full Papers): SDN and Overlay Networks I

Room: Les Etoiles

Minimizing Signaling Cost in Green Routing for Software Defined Networks

Hadi Alizadeh (Istanbul Technical University, Turkey); Didem Gözüpek (Gebze Technical University, Turkey); Seyed M. Buhari (King Abdulaziz University, Saudi Arabia); Aysegul Yayimli (Istanbul Technical University, Turkey)
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Evaluating the Impact of Network I/O on Ultra-Low Delay Packet Switching

George Baltas and George Xylomenos (Athens University of Economics and Business, Greece)
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Optimizing the SDN Control-Plane Performance of the Openvswitch Software Switch

Hsing-Yo Pan (National Chiao Tung University Computer Science Department, Taiwan); Shie-Yuan Wang (National Chiao Tung University, Taiwan)
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Two-Phase Load Balancing of In-Memory Key-Value Storages Through NFV and SDN

Alex F R Trajano (Universidade Estadual do Ceara, Brazil); Marcial P Fernandez (Universidade Estadual do Ceará, Brazil)

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Container-Based Network Function Virtualization for Software-Defined Networks

Richard Cziva, Simon Jouet, Kyle J. S. White and Dimitrios P Pezaros (University of Glasgow, United Kingdom)

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S7 (Full Papers): QoS and QoE, Resource Management

Room: Minerva

Is It Really Worth to Peer At IXPs? A Comparative Study

Marco Di Bartolomeo, Giuseppe Di Battista, Roberto di Lallo and Claudio Squarcella (Roma Tre University, Italy)

pp. 421-426

Experimenting with Alternative Path Tracing Solutions

Pietro Marchetta (University of Naples Federico II, Italy); Walter de Donato (University of Napoli Federico II, Italy); Valerio Persico (University of Napoli, Italy); Antonio Pescapé (University of Napoli Federico II, Italy)

pp. 427-432

Modeling and Crowdttesting Application-Based QoE in Mobile Networks....N/A

Bin Xiang, Konglin Zhu, Zhiyuan Ren, Yanlong Yin and Xiaoyi Zhang (Beijing University of Posts and Telecommunications, P.R. China); Yuan Zhang (University of Goettingen, Germany); Yumei Wang and Lin Zhang (Beijing University of Posts and Telecommunications, P.R. China)

QoE-based Radio Resource Allocation in LTE Femtocell Considering Transport Limitations

Ming Li (Hamburg University of Technology, Germany); Phuong Nga Tran (NTT R&D Center, Japan); Hüseyin K Tütüncüoğlu and Andreas Timm-Giel (Hamburg University of Technology, Germany)

pp. 433-438

S6 (Full Papers): Vehicular Networks II

Room: Venus

Design of Roadside Communication Infrastructure with QoS Guarantees

Cristiano M. Silva (Universidade Federal de São João Del-Rei, Brazil); Wagner Meira, Jr. (Universidade Federal de Minas Gerais, Brazil)

pp. 439-444

Geo-localized Content Replication for Vehicular Ad-hoc Networks

Fabício Aguiar Silva (Federal University of Minas Gerais, Brazil); Azzedine Boukerche (University of Ottawa, Canada); Thais R. M. Braga Silva (Federal University of Minas Gerais & Federal University of Viçosa - Florestal Campus, Brazil); Linnyer Beatrys Ruiz (State University of Maringá & INCT NAMITEC, Brazil); Antonio A.F. Loureiro (Federal University of Minas Gerais, Brazil)

pp. 445-450

Suggestion of Routes for Vehicles in Vehicular Networks Using the Multicommodity Flow Model

Anna Izabel J. Tostes (Federal University of Minas Gerais & PUC Minas, Brazil); Guilherme Maia (Federal University of Minas Gerais, Brazil); Fatima de Lima Procopio Duarte-Figueiredo (Pontifical Catholic University of Minas Gerais, Brazil); Antonio A.F. Loureiro (Federal University of Minas Gerais, Brazil)
pp. 451-456

PRsync: A Method for Preventing Resynchronization in the IEEE 802.11p Standard

Erick Donato (University of Campinas, Brazil); Guilherme Maia (Federal University of Minas Gerais, Brazil); João M. G. Duarte (University of Campinas & University of Cape Verde, Brazil); Antonio A.F. Loureiro (Federal University of Minas Gerais, Brazil); Edmundo Madeira (State University of Campinas, Brazil); Leandro Aparecido Villas (UNICAMP, Brazil)
pp. 457-462

EDCA Virtual Collision Performance Evaluation and Mobility Modeling in V2I Communications

Naila Bouchemal (UVSQ, France); Rola Naja (Université de Versailles, France); Samir Tohme (University of Versailles, France)
pp. 463-470

Tuesday, July 7, 16:00 - 17:30

S12 (Full Papers): Signal, Speech, Image and Video Processing

Room: Diana

Acoustic Model Parameter Estimation Using Distributed Incremental Adaptive Networks

Sayed Mostafa Taheri (The University of Edinburgh, United Kingdom); Hamed Nosrati (Sahand University of Technology (SUT), Iran)
pp. 471-476

Performance of Perceptual 1-Bit Compressed Sensing for Audio Compression

Hossam Kasem (Tanta University & Tanta University, Egypt); Maha Elsabrouty (Egypt Japan University for Science and Technology, Egypt); Osamu Muta and Hiroshi Furukawa (Kyushu University, Japan)
pp. 477-482

Digital Signal Processing for a Sliceable Transceiver for Optical Access Networks

Silvia Saldaña Cercós (Technical University of Denmark & DTU, Denmark); Christoph Wagner, Juan Jose Vegas Olmos, Anna Manolova Fagertun and Idelfonso Tafur Monroy (Technical University of Denmark, Denmark)
pp. 483-488

S9 (Full Papers): SDN and Overlay Networks II

Room: Les Etoiles

Towards MEF Services in a SDN Environment

Carlos Miguel Ferreira (Instituto de Telecomunicações & University of Aveiro, Portugal); João Aparício and Susana Sargento (Instituto de Telecomunicações, Universidade de Aveiro, Portugal); Nuno Farinha (Portugal Telecom, Portugal); Vitor Mirones (PT Inovação, Portugal)
pp. 489-495

An EC-Based Formalism for Policy Refinement in Software-Defined Networking

Cristian Cleder Machado, Juliano Araujo Wickboldt and Lisandro Z Granville (Federal University of Rio Grande do Sul, Brazil); Alberto E. Schaeffer-Filho (Federal University of Rio Grande do Sul (UFRGS), Brazil)
pp. 496-501

Constructing an Optimal Spanning Tree Over a Hybrid Network with SDN and Legacy Switches

Shie-Yuan Wang and Chia-Cheng Wu (National Chiao Tung University, Taiwan); Chih-Liang Chou (EstiNet Technologies Inc., Taiwan)
pp. 502-507

OpenFlow and Services in the Cloud: Core Network Demonstrator

Gonçalo Pardal (Instituto de Telecomunicações, Universidade de Aveiro, Portugal); João Soares (Instituto de Telecomunicações, Portugal); Rafael Gouveia and Susana Sargento (Instituto de Telecomunicações, Universidade de Aveiro, Portugal)
pp. 508-513

S11 (Full Papers): Fault Tolerance and Error Recovery

Room: Minerva

Tool Support for the Evaluation of Anomaly Traffic Classification for Network Resilience

Anderson da Silva (Federal University of Rio Grande do Sul (UFRGS), Brazil); Juliano Araujo Wickboldt (Federal University of Rio Grande do Sul, Brazil); Alberto E. Schaeffer-Filho (Federal University of Rio Grande do Sul (UFRGS), Brazil); Angelos K. Marnierides (Liverpool John Moores University, United Kingdom); Andreas U. Mauthe (Lancaster University, United Kingdom)
pp. 514-519

A Failure Prediction Approach Based on Cloud Theory and Hidden Markov Model in Networked Computing Systems

Weiwei Zheng, Wang Zhili, Haoqiu Huang, Luoming Meng and Qiu Xue-song (Beijing University of Posts and Telecommunications, P.R. China)
pp. 520-525

A Metric-Correlation-Based Fault Detection Approach Using Clustering Analysis in Wireless Sensor Networks

Qian Liu, Yang Yang and Qiu Xue-song (Beijing University of Posts and Telecommunications, P.R. China)
pp. 526-531

A Failure Detector That Gives Information on the Degree of Confidence in the System

Anubis Graciela de Moraes Rossetto (Federal University of Rio Grande do Sul, Brazil); Claudio Geyer (Universidade Federal do Rio Grande do Sul, Brazil); Luciana Arantes (Université Paris 6, France); Pierre Sens (Université de Paris 6, France)
pp. 532-537

S10 (Full Papers): Sensor Networks and Mobile Sensing I

Room: Venus

Opportunistic Data Aggregation in Delay Tolerant Networks....N/A

Wolf-Bastian Pöttner and Lars C Wolf (Technische Universität Braunschweig, Germany)

A Sampling Algorithm for Intermittently Connected Delay Tolerant Wireless Sensor Networks

Israel Vasconcelos (Federal University of Alagoas, Brazil); David Lima (Universidade Federal de Alagoas, Brazil); Carlos Maurício Figueiredo (State University of Amazonas, Brazil); Andre Aquino (Universidade Federal de Alagoas, Brazil)
pp. 538-543

Estimating Queue Formation Rate in Wireless Sensor Networks Using a Fluid Dynamic Model

Charalambos Sergiou, Vasos Vassiliou and Aristodemos Paphitis (University of Cyprus, Cyprus)
pp. 544-548

Contribution Aware Task Allocation in Sensor Networks

Tingting Fu (Hangzhou Dianzi University, P.R. China); Peng Liu (Hangzhou Dianzi University & Temple University, P.R. China)
pp. 549-554

Wednesday, July 8

Wednesday, July 8, 09:00 - 10:30

K2 (Full Papers): Keynote 2

NSF Engineering Directorate: Research Directions in Communications and Computing
Pramod P. Khargonekar, Assistant Director of the U. S. National Science Foundation

In this talk, the overall context and trends for the NSF Engineering Directorate will be described. This will set the stage for describing various research priorities and directions. The focus of the talk will be on topics in communications and computing research as seen from the Engineering Directorate at NSF. The talk will end with emerging societal issues, resulting from major advances in information science and technologies, that are important for public support for science and engineering research.

Wednesday, July 8, 11:00 - 12:30

S16 (Full Papers): Big Data, Data Mining and Database Applications

Room: Diana

MuLTI: Multiple Location Tags Inference for Users in Social Networks

Zeja Chen, Jiahai Yang and Jessie Hui Wang (Tsinghua University, P.R. China)
pp. 555-561

Change Data Capture in NoSQL Databases: A Functional and Performance Comparison

Felipe Mathias Schmidt (Federal University of Rio Grande do Sul (UFRGS), Brazil); Claudio Geyer (Universidade Federal do Rio Grande do Sul, Brazil); Alberto E. Schaeffer-Filho (Federal University of Rio Grande do Sul (UFRGS), Brazil); Stefan Dessloch and Yong Hu (Kaiserslautern University of Technology, Germany)
pp. 562-567

CIUV: Collaborating Information Against Unreliable Views

Zimu Yuan and Zhiwei Xu (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Guojie Li (Chinese Academy of Sciences, P.R. China)
pp. 568-573

Cracker: Crumbling Large Graphs Into Connected Components

Alessandro Lulli (Largo Bruno Pontecorvo, 3 & University of Pisa, Italy); Laura Ricci (University of Pisa, Italy); Emanuele Carlini (CNR ISTI, Italy); Patrizio Dazzi (ISTI, CNR, Pisa, Italy); Claudio Lucchese (ISTI-CNR, Italy)
pp. 574-581

S13 (Full Papers): Grid, Cluster and Cloud Computing I

Room: Les Etoiles

Design and Optimization for Distributed Indexing Scheme in Switch-Centric Cloud Storage System

Yuang Liu, Xiaofeng Gao and Guihai Chen (Shanghai Jiao Tong University, P.R. China)
pp. 582-587

NF-Dedupe: A Novel No-fingerprint Deduplication Scheme for Flash-based SSDs

Zhengguo Chen, Zhiguang Chen and Nong Xiao (National University of Defense Technology, P.R. China); Fang Liu (National University of Defence Technology, P.R. China)
pp. 588-594

Towards a Performance Characterization of a Parallel File System Over Virtualized Environments

Eduardo C Inacio (Federal University of Santa Catarina, Brazil); Mario A R Dantas (UFSC, Brazil); Douglas D J Macedo (Federal University of Sergipe, Brazil)
pp. 595-600

SKVM: Scaling In-Memory Key-Value Store on Multicore

Ran Zheng, Wenjin Wang, Hai Jin and Qin Zhang (Huazhong University of Science and Technology, P.R. China)

pp. 601-606

S15 (Full Papers): Security, Crypto and Privacy I

Room: Minerva

Towards Making Accessible Human-Interaction Proofs More Secure and Usable

Hakan Ezgi Kiziloz and Kemal Bicakci (TOBB University of Economics and Technology, Turkey)
pp. 607-612

Program Partitioning Based on Static Call Graph Analysis for Privilege Separation

Markus Trapp and Michael Rossberg (Technische Universität Ilmenau, Germany); Guenter Schaefer (Technische Universitaet Ilmenau, Germany)
pp. 613-618

Managing Distributed UCONabc Policies with Authorization Assertions and Policy Templates

Maicon Stihler (Federal Center for Technological Education - CEFET-MG, Brazil); Altair O. Santin (Pontifical Catholic University of Parana (PUCPR), Brazil); Arlindo L. Marcon Jr. (Pontifical Catholic University of Paraná, Brazil)
pp. 619-624

AutoBLG: Automatic URL Blacklist Generator Using Search Space Expansion and Filters

Bo Sun (Waseda University, Japan); Mitsuaki Akiyama (NTT, Japan); Takeshi Yagi (Nippon Telegraph and Telephone Corporation, Japan); Mitsuhiro Hatada and Tatsuya Mori (Waseda University, Japan)
pp. 625-631

S14 (Full Papers): Wireless, Cellular and Mobile Communications I

Room: Venus

Robust Data-Aided SNR Estimation Algorithm in High Dynamic Environment

Xianzhong Xie, Yuanyuan Liu and Weijia Lei (Chongqing University of Posts and Telecommunications, P.R. China)
pp. 632-636

Digital Reconstruction Stage of Parallel FBD Sigma Delta ADC Implementation Based on Programmable Digital Oscillator in SDR Receiver

Rihab Lahouli (GRES'COM Research Lab., SUP'COM, University of Carthage & IMS Research Lab., University of Bordeaux, IPB ENSEIRB-MATMECA, Tunisia); Manel Ben-Romdhane (Sup'Com, Tunisia); Chiheb Rebai (Ecole Supérieure des Communications de Tunis (SUP'COM), Tunisia); Dominique Dallet (IMS Laboratory - University Bordeaux, France)
pp. 637-642

Construction of Structured Low Density Lattice Codes Based on Finite Fields

Jiayun Li, Shutao Xia and Xinji Liu (Tsinghua University, P.R. China)
pp. 643-648

A Spectrum Efficient Polarized OFDM Scheme for Wireless Depolarized Channel

Dong Wei (Institute of Information Engineering, Chinese Academy of Sciences, P.R. China); Meng Zhang (Institute of Information Engineering, P.R. China); Fan Wei and Weiqing Huang (Institute of Information Engineering, Chinese Academy of Sciences, P.R. China)
pp. 649-656

PAPR Reduction in FBMC/OQAM Systems Using Active Constellation Extension and Tone Reservation Approaches

Laabidi Mounira (Sup'Com, Tunisia); Rafik Zayani (Innov'COM Lab, Sup'Com, Tunisia); Daniel Roviras (Cnam, France); Ridha R. Bouallegue, B. (Ecole Supérieure des Communications de Tunis, Tunisia)
pp. 657-662

Wednesday, July 8, 14:00 - 15:30

S20 (Full Papers): Services and Support for Smart Cities

Room: Diana

An Intelligent Transportation System for Detection and Control of Congested Roads in Urban Centers

Celso Brennand (Universidade de Campinas - UNICAMP & Universidade Federal Rural de Pernambuco - UFRPE, Brazil); Allan Mariano de Souza (UNICAMP, Brazil); Guilherme Maia (Federal University of Minas Gerais, Brazil); Azzedine Boukerche (University of Ottawa, Canada); Heitor S Ramos (Universidade Federal de Alagoas - UFAL, Brazil); Antonio A.F. Loureiro (Federal University of Minas Gerais, Brazil); Leandro Aparecido Villas (UNICAMP, Brazil)
pp. 663-668

Intelligent Service to Perform Overtaking in Vehicular Networks

Bruno Ferreira (UFMG & IFMG, Brazil); Felipe Cunha (Federal University of Minas Gerais, Brazil); Raquel A. F. Mini (PUC Minas, Brazil); Antonio A.F. Loureiro, Fernando A. Braz and Sergio Campos (Federal University of Minas Gerais, Brazil)
pp. 669-676

A Novel Engine to Underlie the Data Transmission of Social Urban Sensing Applications

Carlos O Rolim, Anubis Graciela de Moraes Rossetto and Valderi Leithardt (Federal University of Rio Grande do Sul, Brazil); Guilherme Borges (Federal University of Rio Grande do Sul (UFRGS), Brazil); Tatiana Santos (Federal University of Santa Maria, Brazil); Adriano Souza (Federal University of Santa Maria (UFSM), Brazil); Claudio Geyer (Universidade Federal do Rio Grande do Sul, Brazil)
pp. 677-682

Enhancing Intelligence in Intervehicle Communications to Detect and Reduce Congestion in Urban Centers....N/A

Rodolfo Meneguette (Instituto Federal de Educação, Ciência e Tecnologia de São Paulo, Brazil); Geraldo P. R. Filho (University of Sao Paulo, Brazil); Luiz F. Bittencourt (University of Campinas, Brazil); Jo Ueyama (University of São Paulo (USP) & Institute of Mathematics and Computer

Science, Brazil); Bhaskar Krishnamachari (University of Southern California, USA); Leandro Aparecido Villas (UNICAMP, Brazil)

S17 (Full Papers): Grid, Cluster and Cloud Computing II

Room: Les Etoiles

Two-Aggregator Network Topology Optimization with Splitting

Soham Das and Sartaj Sahni (University of Florida, USA)
pp. 683-688

An Urgency and Congestion Control Scheme for Larger-scale TCP Incast Problem in Data Center....N/A

Tseng Hsueh-Wen, Ting-Ting Yang and Ti-Hsiang Peng (National Chung-Hsing University, Taiwan)

Analytical Modeling of Reconstruction Delays in Distributed Storage Data Centers

Syed Ali Haider (National University of Sciences and Technology (NUST) & SEecs, Pakistan)
pp. 689-693

Multi-resource Energy-efficient Routing in Cloud Data Centers with Network-as-a-Service

Lin Wang (University of Luxembourg, Luxembourg); Antonio Fernández Anta (IMDEA Networks Institute, Spain); Fa Zhang (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Jie Wu (Temple University, USA); Zhiyong Liu (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China)
pp. 694-699

S19 (Full Papers): Security, Crypto and Privacy II

Room: Minerva

Predicting Model for Identifying the Malicious Activity of Nodes in MANETs

Anderson Silva (University of São Paulo, Brazil); Elvis Pontes (University of Sao Paulo & Laboratory of Integrated Systems (LSI), Brazil); Adilson Guelfi (UNOESTE / FIPT, Brazil); Ivan Caproni (USP, Brazil); Rui L Aguiar (University of Aveiro & Instituto de Telecomunicações, Portugal); Fen Zhou (University of Avignon, France); Sergio Kofuji (University of Sao Paulo, Brazil)
pp. 700-707

Selfish Attacks in IEEE 802.11aa Networks with Intra-AC Prioritization

Lukasz Prasnal, Szymon Szott and Marek Natkaniec (AGH University of Science and Technology, Poland)
pp. 708-713

Fest: A Feature Extraction and Selection Tool for Android Malware Detection

Kai Zhao, Dafang Zhang and Xin Su (Hunan University, P.R. China); Wenjia Li (New York Institute of Technology, USA)
pp. 714-720

S18 (Full Papers): Wireless, Cellular and Mobile Communications II

Room: Venus

Epidemic Dissemination Controlled by Wireless Channel Awareness

Theofanis Kontos (University of Athens, Greece); Christos Anagnostopoulos (University of Glasgow, United Kingdom); Stathes Hadjiefthymiades (University of Athens, Greece); Evangelos Zervas (TEI Athens, Greece)
pp. 721-726

Incentive Mechanism for Cooperative Content Discovery in Mobile Wireless Networks: A Repeated Cooperative Game-theoretic Approach

Haoqiu Huang, Lanlan Rui, Weiwei Zheng, Danmei Niu, Yinglin Xiong, Pan Zhang and Qiu Xuesong (Beijing University of Posts and Telecommunications, P.R. China)
pp. 727-731

IMS Centric Communication Supporting WebRTC Endpoints

Bruno Cruz (Universidade de Aveiro, Portugal); João Paulo Barraca (University of Aveiro & Instituto de Telecomunicações, Portugal)
pp. 732-737

Formal Verification of LTE-UMTS Handover Procedures

Piergiuseppe Bettassa Copet, Guido Marchetto and Riccardo Sisto (Politecnico di Torino, Italy); Luciana Costa (Telecom Italia Information Technology, Italy)
pp. 738-744

Wednesday, July 8, 16:00 - 17:30

S24 (Full Papers): Smart Grid Networks

Room: Diana

Channel Modeling of NB-PLC for Smart Grid

Bilal Masood (COMSATS Institute of Information Technology, Lahore, Pakistan); Sobia Baig (COMSATS Institute of Information Technology, Pakistan)
pp. 745-750

User Activity Recognition for Energy Saving in Smart Home Environment

Wesllen Sousa Lima (Federal University of Amazonas, Brazil); Eduardo Souto (Universidade Federal do Amazonas - UFAM, Brazil)
pp. 751-757

Offline First Fit Scheduling in Smart Grids

Anshu Ranjan (University of Florida, USA); Pramod Khargonekar (Univ of Florida, Gainesville, USA); Sartaj Sahni (University of Florida, USA)
pp. 758-763

Mobility Impact on the Performance of Electric-Vehicle-to-Grid Communications in Smart Grid Environment

Yamen Nasrallah, Irfan S. Al-Anbagi and Hussein T Mouftah (University of Ottawa, Canada)

pp. 764-769

S21 (Full Papers): Grid, Cluster and Cloud Computing III

Room: Les Etoiles

VBalance: A Selection Policy of Virtual Machines for Load Balancing in Cloud Computing

Filipe Fernandes, Joaquim Celestino Júnior and Andre Ribeiro Cardoso (State University of Ceará, Brazil)

pp. 770-775

The Interplay Between Timeliness and Scalability in Cloud Monitoring Systems

Guilherme da Cunha Rodrigues (Federal University of Rio Grande do Sul, Brazil); Rodrigo N. Calheiros (The University of Melbourne, Australia); Márcio Carvalho (Federal University of Rio Grande do Sul, Brazil); Carlos Raniery Paula Dos Santos (Federal University of Santa Maria, Brazil); Lisandro Z Granville (Federal University of Rio Grande do Sul, Brazil); Rajkumar Buyya (University of Melbourne, Australia)

pp. 776-781

An Approach to Reduce Energy Costs Through Virtual Machine Migrations in Cloud Federation

Maurizio Giacobbe, Antonio Celesti, Maria Fazio, Massimo Villari and Antonio Puliafito (University of Messina, Italy)

pp. 782-787

Bundling Communication Messages in Large Scale Cloud Environments

Ali Sianati, Azzedine Boukerche and Robson De Grande (University of Ottawa, Canada)

pp. 788-795

S23 (Full Papers): Security, Crypto and Privacy III

Room: Minerva

Towards Misdirected Email Detection Based on Multi-attributes

Yiguo Pu (Institute of Information Engineering, CAS, P.R. China); Jinqiao Shi, Xiaojun Chen, Li Guo and Tingwen Liu (Institute of Information Engineering, Chinese Academy of Sciences, P.R. China)

pp. 796-802

Efficient and Privacy-Preserving Search in Multi-Source Personal Health Record Clouds

Xin Yao and Yaping Lin (Hunan University, P.R. China); Qin Liu (Hunan University & Temple University, P.R. China); Shuai Long (Hunan University, P.R. China)

pp. 803-808

A DTLS-based Security Architecture for the Internet of Things

Gléderson L. Santos (Federal University of Rio Grande do Sul & Sul-Rio-Grandense Federal Institute (IFSUL), Brazil); Vinícius Guimarães, Guilherme da Cunha Rodrigues, Lisandro Z Granville and Liane Margarida Rockenbach Tarouco (Federal University of Rio Grande do Sul, Brazil)

pp. 809-815

Weak Keys and Plaintext Recovery for the Dhall-Pal Block Cipher

Karen Korstanje and Liam Keliher (Mount Allison University, Canada)
pp. 816-821

S22 (Full Papers): Wireless, Cellular and Mobile Communications III

Room: Venus

Cost Minimization for Code Offloading with Cellular Traffic Aggregation

Jiao Song, Feng Lu and Hai Jin (Huazhong University of Science and Technology, P.R. China);
Tang Zaiyang (Huazhong University of Science and Technology, P.R. China); Peng Li (The
University of Aizu, Japan); Xiaofei Liao and Xia Xie (Huazhong University of Science and
Technology, P.R. China)
pp. 822-827

The Great Expectations of Smartphone Traffic Scheduling

Vilen Looga (Aalto University, Finland); Zhonghong Ou (Beijing University of Posts and
Telecommunications, P.R. China); Yu Xiao (Aalto University, Finland); Antti Ylä-Jääski (Helsinki
University of Technology, Finland)
pp. 828-834

Identification of Wireless Network Cards Based on Signatures of Wireless Traffic

Sitong Mao (Xiamen University, P.R. China); Paolo Barbano (Duke University, USA); Yi Xie
(Xiamen University, P.R. China)
pp. 835-840

Analytical Evaluation of Outage Probability Based on Signal to Interference Ratio for Gaussian-Distributed Users

Sami Baroudi and Yousef R. Shayan (Concordia University, Canada)
pp. 841-844

Thursday, July 9

Thursday, July 9, 09:00 - 10:30

S28 (Full Papers): Radio Physical Layer

Room: Diana

Virtual 802.11 Wireless Networks with Guaranteed Throughput Sharing

Kostas Katsalis (University of Thessaly & CERTH, Greece); Kostas Choumas (University of
Thessaly, Greece); Thanasis Korakis (New York University, USA); Leandros Tassiulas (Yale
University, USA)
pp. 845-850

SISO and MIMO Analog Network Coding Relay Architectures for the Uplink of LTE-Advanced

Kareem M Metwaly and Mahmoud Alaa Eldin (Alexandria University, Egypt); Maha Elsabrouty
(Egypt Japan University for Science and Technology, Egypt)

pp. 851-856

Power Control and Channel Allocation Mechanism for Coexistence Between Secondary Cognitive Networks....N/A

Eduardo P Julio and Celio Albuquerque (Fluminense Federal University, Brazil)

S25 (Full Papers): Peer-to-Peer Computing

Room: Les Etoiles

CDN Bandwidth Allocation in Weakly Interconnected Networks

Jiqiang Wu (The Chinese University of Hong Kong, Hong Kong); YiPeng Zhou (Shenzhen University, P.R. China); Dah Ming Chiu (The Chinese University of Hong Kong, Hong Kong); Zirong Zhu (Tencent, P.R. China)

pp. 857-862

Distributed Energy-Efficient Peer-to-Peer VoD System

Konstantinos Deltouzos and Spyros Denazis (University of Patras, Greece)

pp. 863-868

Performance Evaluation of WebRTC Data Channels....N/A

Rasmus Eskola and Jukka K. Nurminen (Aalto University, Finland)

To Share Content or Not to Share? This is the Peering Question

Osnat (Ossi) Mokryn and Adi Akavia (Tel Aviv Yaffo Academic College, Israel); Dan Ben-Yaacov (Tel Aviv Yaffo College, Israel)

pp. 869-876

S27 (Full Papers): Network Reliability

Room: Minerva

Skip Game: An Autonomic Approach for QoS and Energy Management in IEEE 802.15.4 WSN....N/A

Tiago Semprebom (Federal Institute of Santa Catarina, Brazil); Carlos Montez (UFsC, Brazil); Gustavo Medeiros de Araújo (Federal University of Santa Catarina, Brazil, Brazil); Paulo Portugal (University of Porto, Portugal)

Spectral Partitioning for Node Criticality

Waqar Asif (National University of Science and Technology (NUST)), Pakistan); Marios Lestas (Frederick University, Cyprus); Hassaan Khaliq Qureshi (National University of Sciences and Technology, Pakistan); Muttukrishnan Rajarajan (City University London, United Kingdom)

pp. 877-882

QADC-MORE: A New QoS-Aware Dynamic Credit MORE Protocol for Wireless Mesh Networks

Mostafa Abdolahi (Kharazmi University of Tehran, Iran); Farshad Eshghi (Kharazmi University, Iran); Manoochehr Kelarestagh (Kharazmi University of Tehran, Iran); Mozafar Bag-Mohammadi (Ilam University, Iran)

pp. 883-888

A QoE-Oriented Scheduling Scheme for HTTP Streaming Service in LTE System

Yinlong Liu (Institute of Information Engineering, Chinese Academy of Sciences, P.R. China); Wei Ma (Chinese Academy of Sciences, P.R. China); Lei Qian (The University of Auckland, New Zealand)
pp. 889-894

S26 (Full Papers): Sensor Networks and Mobile Sensing II

Room: Venus

Cluster-Based Two-Step Target Localization with Incremental Cooperation

Jafar Boostanpour (Ferdowsi University of Mashhad (FUM), Iran); Sayed Mostafa Taheri (The University of Edinburgh, United Kingdom); Hossein Zamiri (Ferdowsi University of Mashhad, Iran)
pp. 895-900

Indoor Target Tracking Based on Time Difference of Arrival and Particle Filtering....N/A

Amin Gholoobi (Open University of Cyprus, Cyprus); Ioannis Kyriakides (University of Nicosia, Cyprus); Stavros Stavrou (Open University of Cyprus, Cyprus)

An Energy-Efficient Prediction-based Algorithm for Object Tracking in Sensor Networks

Weijing Cheng (Beijing Unniversity of Posts and Telecommunications & State Key Laboratory of Networking and Switching Technology, P.R. China); Zhipeng Gao (Beijing University of Posts and Telecommunications, P.R. China); Jingchen Zheng and Yuwen Hao (General Hospital of Chinese People's Armed Police Forces Beijing, P.R. China)
pp. 901-906

Secure Positioning with Non-Ideal Distance Bounding Protocols

Pericle Perazzo and Gianluca Dini (University of Pisa, Italy)
pp. 907-912

Thursday, July 9, 11:00 - 12:30

S32 (Full Papers): Optical Networking

Room: Diana

An ISFA-combined Pilot-Aided Channel Estimation Scheme in Multiband Orthogonal Frequency Division Multiplexing Ultra-Wideband Over Fiber System

Jing He (College of Computer Science and Electronic Engineering, Hunan University, P.R. China); Teng Li, Xuejie Wen and Ming Chen (Hunan University, College of Computer Science and Electronic Engineering, P.R. China); Lin Chen (Hunan University, P.R. China)
pp. 913-917

Equalizer Placement and Wavelength Selective Switch Architecture for Optical Network Security

Konstantinos Manousakis (University of Cyprus & KIOS Research Center, Cyprus); Georgios Ellinas (University of Cyprus, Cyprus)
pp. 918-923

A Novel Fair and Efficient Bandwidth Allocation Scheme for FiWi Networks....N/A

Antonis Sarigiannidis (Aristotle University of Thessaloniki, Greece); Petros Nicopolitidis and Georgios Papadimitriou (Aristotle University, Greece); Panagiotis Sarigiannidis (University of Western Macedonia, Greece)

S29 (Full Papers): Future Internet I

Room: Les Etoiles

Optimized Access Control Enforcement Over Encrypted Content in Information-centric Networks

Elisa Mannes (Federal University of Parana, Brazil); Carlos A Maziero (Federal University of Parana State - UFPR, Brazil); Luiz Carlos Lassance (CONFESOL, Brazil); Fábio Borges (National Laboratory for Scientific Computing (LNCC) & Brazilian Ministry of Science, Technology, and Innovation (MCTI), Brazil)

pp. 924-929

Towards Disruption Tolerant ICN....N/A

H. Islam and Andrey Lukyanenko (Aalto University, Finland); Sasu Tarkoma (University of Helsinki, Finland); Antti Yla-Jaaski (Aalto University, Finland)

Dynamic Ring for Seamless Mobility in Identity Centric Networks

Dagang Li and Wenpeng Sha (Peking University, P.R. China)

pp. 930-935

Beyond the Limits: Maximization of ICN Caching Capabilities with Global Detour Algorithm....N/A

Sumanta Saha, Maneesh Chauhan and Andrey Lukyanenko (Aalto University, Finland)

S31 (Full Papers): Modeling and Simulation

Room: Minerva

Hierarchical Performance Modeling of Embedded Systems

Ahmed Alsheikhy (University of Connecticut & School of Engineering, USA); Song Han and Reda Ammar (University of Connecticut, USA)

pp. 936-942

A Version-aware Computation and Storage Trade-off Strategy for Multi-version VoD Systems in the Cloud

Hui Zhao, Qinghua Zheng, Weizhan Zhang, Biao Du and Yuxuan Chen (Xi'an Jiaotong University, P.R. China)

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PowerMannaSim: An Extension with Power Consumption Modeling to MannaSim, a Wireless Sensor Network Module of NS-2

Rodolfo Miranda Pereira (State University of Maringá, Brazil); Linnyer Beatrys Ruiz (State University of Maringá & INCT NAMITEC, Brazil); Thais R. M. Braga Silva (Federal University of Minas Gerais & Federal University of Viçosa - Florestal Campus, Brazil); Luiz Henrique Davantel (State University of Maringá, Brazil)

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Comprehensive Analysis of AggSessAC Method for Revenue Maximization Using OMNeT++
Andris Skrastiņš, Jans Jeļinskis and Gunārs Lauks (Riga Technical University, Latvia)
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S30 (Full Papers): Sensor Networks and Mobile Sensing III

Room: Venus

Trust-based RPL for the Internet of Things

Nabil Djedjig (Research Center on Scientific and Technical Information (CERIST) & University Abderrahamane MIRA Bejaia, Algeria); Djamel Tandjaoui (Research Center on Scientific and Technical Information (CERIST), Algeria); Faiza Medjek (Research Center on Scientific and Technical Information (CERIST) & University Abderrahamane MIRA Bejaia, Algeria)
pp. 962-967

An Autonomic in-Network Query Processing for Urban Sensor Networks

Marcos Aurelio Carrero (Federal University of Parana, Brazil); Rone Ilidio da Silva (Universidade Federal de São João del-Rei, Brazil); Carmem Hara (Universidade Federal do Paraná, Brazil); Aldri Santos (UFPR, Brazil)
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Virtual Broking Coding for Reliable In-Network Storage on WSANs

Camila H. S. Oliveira (Université Paris-Est Marne-la-Vallée, France); Yacine Ghamri-Doudane (University of la Rochelle, France); Carlos E. F. Brito (Federal University of Ceará, Brazil); Stephane Lohier (University of Paris-Est, France)
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S33 (Full Papers): Future Internet II

Room: Les Etoiles

Data Authentication for NDN Using Hash Chains

Tamer Refaei, Mark Horvath and Michelle Schumaker (The MITRE Corporation, USA); Creighton Hager (MITRE, USA)
pp. 982-987

Blind Packet Forwarding Using a Locator/Identifier Split Approach....N/A

Irfan Simsek and Yves Igor Jerschow (University of Duisburg-Essen, Germany); Erwin P. Rathgeb (Universität Duisburg-Essen, Germany)

Android Application Recommendation Approach Based on Network Traffic Measurement and Analysis

Xin Su and Dafang Zhang (Hunan University, P.R. China); Wenjia Li (New York Institute of Technology, USA); Wenwei Li (Hunan University, P.R. China)
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S35 (Full Papers): Artificial intelligence and Bio-Informatics

Room: Minerva

Towards a Faster and Accurate Supertree Inference

Diogo Telmo Neves (University of Minho, Portugal); João Luís Sobral (Universidade do Minho, Portugal)
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An Ontology-Based Retrieval System for Mammographic Reports

Albert Comelli, Luca Agnello and Salvatore Vitabile (University of Palermo, Italy)
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S34 (Full Papers): Underwater Sensor Networks

Room: Venus

Taking Swarms to the Field: A Framework for Underwater Mission Planning

Sherif Tolba, Reda Ammar and Sanguthevar Rajasekaran (University of Connecticut, USA)
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Performance Analysis of Efficient Pipeline Architectures for Underwater Big Data Analytics

Ayman Alharbi (University Of Connecticut, USA); Reda Ammar (University of Connecticut, USA); Hesham Alhumyani (University Of Connecticut, USA); Saleh Ibrahim (Cairo University, Egypt)
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Performance Analysis of Data Delivery Reliability Schemes in Underwater Sensor Networks

Rehan Qayyum (National University of Sciences and Technology, Islamabad, Pakistan); Adnan Iqbal (Namal College Mianwali, Pakistan); Hassaan Khaliq Qureshi (National University of Sciences and Technology, Pakistan)
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