Overview Programme

		Session		
Time	Room: Les Etoiles	Room: Venus	Room: Minerva	Room: Diana

Monday, July 6 - Workshops

Time	Room: Les Etoiles	Room: Venus	Room: Minerva	Room: Diana
08:00-09:00	Registration			
09:00-10:30	SCUCA	PEDIWESA	DMSS	Odyssey 5G
10:30-11:00	Coffee Break			
11:00-12:30	SCUCA	PEDIWESA	DMSS	Odyssey 5G
12:30-14:00	Lunch Break			
14:00-15:30	SCUCA	PEDIWESA	MoCS	SFCS
15:30-16:00	Coffee Break			
16:00-17:30	SCUCA	PEDIWESA	MoCS	SFCS
19:30-20:30	Welcome Reception Golden Bay Beach Hotel - Venue			

Session				
Time	Room: Les Etoiles	Room: Venus	Room: Minerva	Room: Diana

Tuesday, July 7

Time	Les Etoiles	Venus	Minerva	Diana
08:00-09:00	Registration			
09:00-10:30	K1: *Keynote 1*			
10:30-11:00	Coffee Break			
11:00-12:30	S1: *Internet and Cloud Applications*	S2: *Vehicular Networks I*	S3: *Network Design, Optimization, and Management*	S4: *Routing and Multicast*
12:30-14:00	Lunch Break			
14:00-15:30	S5: *SDN and Overlay Networks I*	S6: *Vehicular Networks II*	S7: *QoS and QoE, Resource Management*	S8: *Social Networks and Crowdsourcing*
15:30-16:00	Coffee Break			
16:00-17:30	S9: *SDN and Overlay Networks II*	S10: *Sensor Networks and Mobile Sensing I*	S11: *Fault Tolerance and Error Recovery*	S12: *Signal, Speech, Image and Video Processing*

	Session		
Time	Room: Les Etoiles	Room: Venus	Room: Minerva	Room: Diana

Wednesday, July 8

Time	Room: Les Etoiles	Room: Venus	Room: Minerva	Room: Diana
08:30-09:00	Registration			
09:00-10:30	K2: *Keynote 2*			
10:30-11:00	Coffee Break			
11:00-12:30	S13: *Grid, Cluster and Cloud Computing I*	S14: *Wireless, Cellular and Mobile Communications I*	S15: *Security, Crypto and Privacy I*	S16: *Big Data, Data Mining and Database Applications*
12:30-14:00	Lunch Break			
14:00-15:30	S17: *Grid, Cluster and Cloud Computing II*	S18: *Wireless, Cellular and Mobile Communications II*	S19: *Security, Crypto and Privacy II*	S20: *Services and Support for Smart Cities*
15:30-16:00	Coffee Break			
16:00-17:30	S21: *Grid, Cluster and Cloud Computing III*	S22: *Wireless, Cellular and Mobile Communications III*	S23: *Security, Crypto and Privacy III*	S24: *Smart Grid Networks*
19:30-22:30	Conference Dinner Meet at lobby of Golden Bay Beach Hotel			

	Session			
Time	Room: Les Etoiles	Room: Venus	Room: Minerva	Room: Diana

Thursday, July 9

08:30-09:00	Registration			
09:00-10:30	S25: *Peer-to-Peer Computing*	S26: *Sensor Networks and Mobile Sensing II*	S27: *Network Reliability*	S28: *Radio Physical Layer*
10:30-11:00	Coffee Break			
11:00-12:30	S29: *Future Internet I*	S30: *Sensor Networks and Mobile Sensing III*	S31: *Modeling and Simulation*	S32: *Optical Networking*
12:30-14:00	Lunch Break			
14:00-15:30	S33: *Future Internet II*	S34: *Underwater Sensor Networks*	S35: *Artificial intelligence and Bio-Informatics*	

Tuesday, July 7

09:00 - 10:30

K1: Keynote 1

Room: Les Etoiles

11:00 - 12:30

S1: Internet and Cloud Applications

Room: Les Etoiles

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

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 (GPRT, Brazil); Daniel Bezerra (Universidade Federal de Pernambuco, Brazil); Stenio Fernandes and Djamel Hadj Sadok (Federal University of Pernambuco, Brazil); Géza Szabó (Ericsson Research, Hungary)

Modeling User Interactions for Conversion Rate Prediction in M-Commerce

Gianni Fenu and Pier Luigi Pau (University of Cagliari, Italy)

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 Federal of Rio Grande do Sul, Colombia); Juliano A Wickboldt and Lisandro Z Granville (Federal University of Rio Grande do Sul, Brazil)

S2: 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)

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); Efren 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)

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)

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)

S3: 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)

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)

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

Christos Liaskos (Institute of Computer Science, Foundation of Research and Technology, Hellas, Greece)

Analysing Traffic Flows Through Sampling: A Comparative Study

João Marco C. Silva, Paulo Carvalho and Solange Rito Lima (Centro Algoritmi, Universidade do Minho, Portugal)

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)

S4: Routing and Multicast

Room: Diana

A Message-Based Incentive Mechanism for Opportunistic Networking Applications

Vinícius 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)

Energy-efficient Base Station Management in Heterogeneous Networking Environments

Georgios Kyriazis and Angelos Rouskas (University of Piraeus, Greece); George T. Karetsos (Technology Education Institute of Thessaly, Greece)

A Two-dimensional Structured Overlay Based on Flexible Routing Tables

Masashi Hojo, Hiroya Nagao, Takehiro Miyao and Kazuyuki Shudo (Tokyo Institute of Technology, Japan)

Discovering High-Impact Routing Events Using Traceroutes

Marco Di Bartolomeo, Valentino Di Donato, Maurizio Pizzonia, Claudio Squarcella and Massimo Rimondini (Roma Tre University, Italy)

14:00 - 15:30

S5: 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)

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)

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)

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)

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)

S6: Vehicular Networks II

Room: Venus

Design of Roadside Communication Infrastructure with QoS Guarantees

Cristiano Silva (Federal University of Sao Joao Del-rei, Brazil); Wagner Meira, Jr. (Universidade Federal de Minas Gerais, Brazil)

Geo-localized Content Replication for Vehicular Ad-hoc Networks

Fabrício 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)

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)

PResync: 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)

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)

S7: 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)

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)

Modeling and Crowdtesting Application-Based QoE in Mobile Networks

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, Phuong Nga Tran, Hüseyin K Tütüncüoğlu and Andreas Timm-Giel (Hamburg University of Technology, Germany)

S8: 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)

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)

A Framework for Retrieving and Ranking Tweets in Real Time

Parma Nand (Auckland University of Technology, New Zealand); Rivindu Perera (Auckland University of Technology & School of Computer and Mathematical Sciences, New Zealand)

Differential Spread Strategy: An Incentive for Advertisement Dissemination

Xiao Chen (Institute of Computing Technology 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)

16:00 - 17:30

S9: 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)

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

Cristian Cleder Machado, Juliano A 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)

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)

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)

S10: Sensor Networks and Mobile Sensing I

Room: Venus

Opportunistic Data Aggregation in Delay Tolerant Networks

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)

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

Charalambos Sergiou, Vasos Vassiliou and Aristodemos Paphitis (University of Cyprus, Cyprus)

S11: 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 A Wickboldt (Federal University of Rio Grande do Sul, Brazil); Alberto E. Schaeffer-Filho (Federal University of Rio Grande do Sul (UFRGS), Brazil); Angelos K. Marnerides (Liverpool John Moores University, United Kingdom); Andreas U. Mauthe (Lancaster University, United Kingdom)

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)

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)

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)

S12: 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)

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)

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)

Wednesday, July 8

09:00 - 10:30

K2: Keynote 2

Room: Les Etoiles

11:00 - 12:30

S13: 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)

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)

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)

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)

S14: 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)

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 Superieure des Communications de Tunis (SUP'COM), Tunisia); Dominique Dallet (IMS Laboratory - University Bordeaux, France)

Construction of Structured Low Density Lattice Codes Based on Finite Fields

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

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)

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)

S15: 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)

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)

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)

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)

S16: Big Data, Data Mining and Database Applications

Room: Diana

MuLTI: Multiple Location Tags Inference for Users in Social Networks

Zejia Chen, Jiahai Yang and Jessie Hui Wang (Tsinghua University, P.R. China)

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

Felipe Mathias Schmidt (Federal University of Rio Grande do Sul, Germany); 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)

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)

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)

14:00 - 15:30

S17: 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)

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

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)

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

Lin Wang (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); 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)

S18: 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)

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 Xue-song (Beijing University of Posts and Telecommunications, P.R. China)

IMS Centric Communication Supporting WebRTC Endpoints

Bruno Cruz (Universidade de Aveiro, Portugal); João Paulo Barraca (University of Aveiro & Instituto de Telecomunicações, Portugal)

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)

S19: 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)

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)

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)

S20: 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)

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)

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)

Enhancing Intelligence in Intervehicle Communications to Detect and Reduce Congestion in Urban Centers

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

16:00 - 17:30

S21: 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)

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)

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)

Bundling Communication Messages in Large Scale Cloud Environments

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

S22: 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 Sicence 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)

The Great Expectations of Smartphone Traffic Scheduling

Vilen Looga and Zhonghong Ou (Aalto University, Finland); Yu Xiao (Aalto University & Carnegie Mellon University, Finland); Antti Ylä-Jääski (Helsinki University of Technology, Finland)

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)

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

Sami Baroudi and Yousef R. Shayan (Concordia University, Canada)

S23: 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)

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)

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)

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

Liam Keliher and Karen Korstanje (Mount Allison University, Canada)

S24: 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)

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)

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)

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)

Thursday, July 9

09:00 - 10:30

S25: 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)

Distributed Energy-Efficient Peer-to-Peer VoD System

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

Performance Evaluation of WebRTC Data Channels

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)

S26: 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)

Indoor Target Tracking Based on Time Difference of Arrival and Particle Filtering

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)

Secure Positioning with Non-Ideal Distance Bounding Protocols

Pericle Perazzo and Gianluca Dini (University of Pisa, Italy)

S27: Network Reliability

Room: Minerva

Skip Game: An Autonomic Approach for QoS and Energy Management in IEEE 802.15.4 WSN

Tiago Semprebom (Federal Institute of Santa Catarina, Brazil); Carlos Montez (UFsC, Brazil); Gustavo Medeiros de Araújo (Federal University of Santa Catarina & Otto-Von-Guericke-Univesität Magdeburg, 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)

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)

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)

S28: Radio Physical Layer

Room: Diana

Virtual 802.11 Wireless Networks with Guaranteed Throughout 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)

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)

Power Control and Channel Allocation Mechanism for Coexistence Between Secondary Cognitive Networks

Eduardo P Julio (Fluminense Federal University & UFF, Brazil); Celio Albuquerque (Fluminense Federal University, Brazil)

11:00 - 12:30

S29: 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 Technology - Parana, Brazil); Luiz Carlos Lassance (CONFESOL, Brazil); Fábio Borges (Technische Universität Darmstadt - Telecooperation Lab & CASED - Center for Advanced Security Research Darmstadt, Germany)

Towards Disruption Tolerant ICN

H. Islam, Andrey Lukyanenko, Sasu Tarkoma and 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)

Beyond the Limits: Maximization of ICN Caching Capabilities with Global Detour Algorithm

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

S30: 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)

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)

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)

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)

S31: 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)

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)

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)

Stochastic Scheduling Model for Network Attack Emulation

Zhouyi Zhou (Institute of Computing Technologies & Chinese Academy of Sciences, P.R. China); Siming Lin (Software Lab, Institute of Computing Technology, Chinese Academy of Sciences, Beijing; Graduate Scho, P.R. China); Wenyang Deng and Liang Chang (Institute of Computing Technologies Chinese Academy of Sciences, P.R. China)

Comprehensive Analysis of AggSessAC Method for Revenue Maximization Using OMNeT++

Andris Skrastiņš, Jans Jeļinskis and Gunārs Lauks (Riga Technical University, Latvia)

S32: 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)

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)

A Novel Fair and Efficient Bandwidth Allocation Scheme for FiWi Networks

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

14:00 - 15:30

S33: 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)

Blind Packet Forwarding Using a Locator/Identifier Split Approach

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)

S34: Underwater Sensor Networks

Room: Venus

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

Sherif Tolba and Reda Ammar (University of Connecticut, USA)

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)

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)

S35: Artificial intelligence and Bio-Informatics

Room: Minerva

Towards a Faster and Accurate Supertree Inference

Diogo Telmo Neves (University of Minho, Portugal); João Lu??s Sobral (Universidade do Minho, Portugal)

An Ontology-Based Retrieval System for Mammographic Reports

Albert Comelli, Luca Agnello and Salvatore Vitabile (University of Palermo, Italy)