

IEEE NCA 2014 - Program

August 21

registration and breakfast 8:00 - 8:45

opening remarks 8:45 - 9:00

MANET	9:00 - 11:00	Dynamic Attribute Based Vehicle Authentication	Shlomi Dolev, Lukasz Krzywiecki, Nisha Panwar and Michael Segal	Nisha Panwar
		Using Virtual Mobile Nodes for Neighbor Detection in Proximity-Based Mobile Applications	Behnaz Bostanipour and Benoit Garbinato	Behnaz Bostanipour
		ADD: A Data Dissemination Solution for Highly Dynamic Highway Environments	Allan Souza, Guilherme Maia and Leandro Villas	Leandro Villas
		Does Mobility Matter? An Evaluation Methodology for Opportunistic Apps	Jesus Frigal, Marc-Olivier Killijian, Roberto Pasqua, Matthieu Roy and Gilles Tredan	Jesus Frigal

break 11:00 - 11:20

MANET	11:20 - 12:20	Strip Interoperability for Wireless Ad hoc Routing Protocols	Marco Antonio To, Gerardo Morales and Stephane Maag	Marco Antonio To
		GTO: A Broadcast Protocol for Highway Environments over Diverse Traffic Conditions	Ademar Takeo Akabane, Edmundo Madeira and Leandro Villas	Ademar Takeo Akabane
		A Deadline Aware DTN Approach Based on Epidemic Routing	ChungJae Lee and Ki-II Kim	Ki-II Kim
		VANets: An Exploratory Evaluation in Vehicular Ad hoc Network For Urban Environment	Claudio Correa, Jo Ueyama, Rodolfo Meneguette and Leandro Villas	Claudio Correa

lunch at the hotel 12:20 - 13:30

Networks	13:30 - 14:30	Congestion-aware adaptive routing in 2D-Mesh multicores	Dimiter Avresky, Fabien Chaix and Michael Nicolaidis	Dimiter Avresky
		Optimal Configuration for n-dimensional Twin Torus Networks	Francisco J. Andujar, Juan A. Villar, Jose L. Sanchez, Francisco J. Alfaro and Jose Duato	Francisco Andujar Muñoz

break 14:30 - 14:50

Cloud Computing	14:50 - 15:50	Cloud Aware Dynamic Resource Allocation Middleware for Massively Multiplayer Online Games	André Negrão, Miguel Adaixo, Luís Veiga and Paulo Ferreira	André Negrão
		A Fault Tolerant Hierarchical Distributed Loop Self-Scheduling Scheme for Cloud Systems	Yiming Han and Anthony Chronopoulos	Anthony Chronopoulos
		A Low-Complexity Fault-Tolerant Document Storage System	Dishelt Francisco Torres-Paz, Jorge Antonio Perez-Espinoza and Jose Juan Garcia-Hernandez	Jose Juan Garcia-Hernandez
		Health Records Protection in Cloud Environment	Doan Hoang and Lingfeng Chen	Doan Hoang

break 15:50 - 16:10

Performance	16:10 - 16:55	Interference Avoidance Through Frequency Assignment and Association Control in IEEE 802.11 WLAN	Babul Tewari and Sasthi Ghosh	Sasthi Ghosh
		Recovery of Information Lost by the Least Squares Estimation in Real-Time Network Environment	Hengky Susanto and ByungGuk Kim	Hengky Susanto
		Based-agent Distributed Architecture to manage the Dynamic Multi-Hop Ridesharing System	Sondes Ben Cheikh, Slim Hammadi and Christian Tahon	Sondes Cheikh

Dinner: Legal Sea Food

(Less than a half hour walk from the hotel)

August 22

breakfast 8:00 - 9:00

Cloud Computing	9:00 - 10:30	An Advance Reservation Mechanism to Enhance Throughput in an Opportunistic High Performance Computing Environment	Eliza Gomes and Mario Dantas	Eliza Gomes
		A Sharing-Aware Greedy Algorithm for Virtual Machine Maximization	Safraz Rampersaud and Daniel Grosu	Safraz Rampersaud
		Deploying large-scale service compositions on the cloud with the CHOReOS Enactment Engine	Leonardo Leite, Carlos Eduardo Moreira, Daniel Cordeiro, Marco Aurélio Gerosa and Fabio Kon	Leonardo Leite

break 10:30 - 10:50

Network Security BEST STUDENT PAPER	10:50 - 11:35	GPU-based NSEC3 Hash Breaking	Matthäus Wander, Lorenz Schwittmann, Christopher Boelmann and Torben Weis	Matthäus Wander
Network Security	11:35 - 12:35	SDN-Based Private Interconnection	Shlomi Dolev and Shimrit Tzur David	Marina Kopeetsky
		On the effectiveness of NX, SSP, RenewSSP and ASLR against stack buffer overflows	Hector Marco and Ismael Ripoll	Hector Marco

lunch at the hotel 12:35 - 13:30

Efficient Computation and Communication	13:30 - 14:15	Green Proxy-based Approaches for BitTorrent	Sena Cebeci, Oznur Ozkasap and Giuseppe Anastasi	Sena Cebeci
		Orchestration of Energy Efficiency Functionalities for a Sustainable Network Management	Ana Carolina Riekstin, Guilherme Carvalho Januário, Bruno Bastos Rodrigues, Viviane Tavares Nascimento, Maria-Roxana Pirlea, Tereza Cristina Melo de Brito Carvalho and Catalin Meirosu	Bruno B. Rodrigues
Overlay and Sensor Networks	14:15 - 15:00	Entropy Adaptive On-Line Compression	Shlomi Dolev, Sergey Frenkel and Marina Kopeetsky	Marina Kopeetsky
		Local Search Heuristics for Media Streams Planning with Transcoding	Jiří Marek, Hana Rudová and Petr Holub	Jiri Marek
		A new solution to perform Automatic Meter Reading using Unmanned Aerial Vehicle	Jose Neto, Daniel Guidoni and Leandro Villas	Leandro Villas
		Secure Sensing over Named Data Networking	Jeff Burke, Paolo Gasti, Naveen Nathan and Gene Tsudik	Paolo Gasti

break 15:00 - 15:20

Overlay and Cellular Networks	15:20 - 16:50	An Adaptive Peer-to-Peer Overlay Scheme for Location-based Services	Giacomo Brambilla, Marco Picone, Michele Amoretti and Francesco Zanichelli	Michele Amoretti
		A probabilistic greedy with forced assignment and compression for fast frequency assignment in cellular network	Subhankar Ghosal and Sasthi Ghosh	Sasthi Ghosh
		Media Streams Planning with Uncertain Link Capacities	Pavel Troubil, Hana Rudová and Petr Holub	Pavel Troubil

Theory and Other BEST PAPER	16:50 - 17:35	A Coded Shared Atomic Memory Algorithm for Message Passing Architectures	Viveck Cadambe, Nancy Lynch, Muriel Medard and Peter Musial	Viveck Cadambe
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banquet On the hotel

August 23

breakfast 8:00 - 9:00

Distributed Systems	9:00 - 10:30	Parallel Deferred Update Replication	Leandro Pacheco, Daniele Sciascia and Fernando Pedone	Fernando Pedone
		On Making Transactional Applications Resilient to Data Corruption Faults	Mohamed Mohamedin, Roberto Palmieri and Binoy Ravindran	Mohamed Mohamedin
		A Novel approach for Dual Direction Load Balancing and Storage Optimization in Cloud Services	Klaithem Nuaimi, Nader Mohamed, Mariam AlNuaimi and Jameela Al-Jaroodi	Klaithem Nuaimi

break 10:30 - 10:50

Sensor Networks	10:50 - 12:20	An Adaptive Approach to Opportunistic Data Forwarding in Underwater Acoustic Sensor Networks	Nusrat Nowsheen, Gour Karmakar and Joarder Kamruzzaman	Nusrat Nowsheen
		RLP: A Community Detection-based Routing Protocol for Wireless Sensor Networks	Matheus Antunes de Paulo, Mariá C. V. Nascimento and Valerio Rosset	Valerio Rosset
		Clustering in WSN Using Node Ranking with Hybrid Nodes Duty-cycle and Energy Threshold	Mariam Alnuaimi, Khaled Shuaib and Klaithem Alnuaimi	Mariam Alnuaimi

lunch at the hotel 12:20 - 13:15

Theory and Other	14:00 - 15:00	Time and Location Power Based Malicious Code Detection Techniques for Smartphones	Bryan Dixon, Shivakant Mishra and Jeannette Pepin	Bryan Dixon
		Solvability-Based Comparison of Failure Detectors	Srikanth Sastry and Josef Widder	Srikanth Sastry

break 15:00 - 15:20

Self Adaptation and Protocols	15:20 - 16:20	An Evolutionary Game Theoretic Approach for Configuring Cloud-integrated Body Sensor Networks	Yi Cheng-Ren, Junichi Suzuki, Dung Phan, Shingo Omura and Ryuichi Hosoya	Junichi Suzuki
		Self-control Cloud Services	Tatiana Aubonnet and Noémie Simoni	Tatiana Aubonnet
		Supporting SLA Negotiation for VSDN Based On Similarity and Price Issues	Rafael Gomes, Luiz Bittencourt and Edmundo Madeira	Rafael Gomes
		Formal Analysis of Secure Device Pairing Protocols	Trung Nguyen and Jean Leneutre	Nguyen Tran-Trung

break 16:20 - 16:40

Network Security	16:40 - 17:10	Immunization Against Infection Propagation In Heterogeneous Networks	Waseem Abbas, Sajal Bhatia, Yevgeniy Vorobeychik and Xenofon Koutsoukos	Sajal Bhatia
		Hardware Implementation of Quasigroup Encryption for SCADA Networks	William Mahoney, Abhishek Parakh and Matthew Battey	Abhishek Parakh

closing remarks 17:10 - 17:25