

LATINCOM 2012

Thursday, November 8, 2012

9:25AM - 10:45AM

TS1 - Peer-to-peer and wireless sensor networks

Chair: Rommel Torres

Live Scalable Video Streaming on Peer-to-Peer Overlays with Network Coding

Michele Sanna, and Ebroul Izquierdo, *Senior Member, IEEE, School of Electronic Engineering and Computer Science.*

Queen Mary, University of London, Mile End Road, E1 4NS, London, UK.

TCNet: Trellis Coded Network - implementation of QoS - aware routing protocols in WSNs

Diogo F. Lima Filho, José Roberto Amazonas, *Escola Politécnica of the University of São Paulo, Brazil.*

Minimizing Energy Consumption for Cooperative Network and Diversity Coded Sensor Networks

Gabriel E. Arrobo and Richard D. Gitlin, *Department of Electrical Engineering, University of South Florida, Tampa, FL 33620.*

A Study Based on the Lee Propagation Model for a Wireless Sensor Network on a Non-Uniform Vegetation Environment

Giselle M. Galvan-Tejada, *Communications Section, Department of Electrical Engineering, Center for Research and Advanced Studies of IPN Av IPN 2508 Col. San Pedro Zacatenco, C.P. 07360 Mexico City, MEXICO.*

Emmanuel Q. Duarte-Reynoso, *Communications Section, Department of Electrical Engineering, Center for Research and Advanced Studies of IPN Av IPN 2508 Col. San Pedro Zacatenco, C.P. 07360 Mexico City, MEXICO.*

11:15AM-12:15PM

TS2 - Wireless communications I

Chair: Luciana Andreia Fondazzi Martimiano

A distributed envelope-based admission control for multihop IEEE 802.11 ad hoc networks

María del Pilar Salamanca and Néstor Peña, *GEST - Electronics and Telecommunication Systems Group, Universidad de Los Andes, Bogotá, Colombia.*

Nelson L. S. da Fonseca, *Institute of Computing, Universidade Estadual de Campinas, Campinas, Brazil.*

A CART Based Mechanism for Collision Detection in IEEE 802.11

Muhammad Naveed Aman and Biplob Sikdar, *Department of ECSE, RPI, Troy, NY 12180 USA.*

TCP-UEM: Detecting Link Failure by Keeping End-to-end Semantics

Renato Fernando Silva Gonçalves, *Departamento de Informática – DIN, Universidade Estadual de Maringá-UEM.*

Luciana Andréia Fondazzi Martimiano, Valéria Delisandra Feltrim, *Departamento de Informática – DIN, Universidade Estadual de Maringá-UEM, Maringá, Brazil.*

2:45PM - 4:25PM

TS3 - Multimedia, radio, and traffic measurements

Chair: Nelson Fonseca

Performance Analysis on Return Channel for Interactive Digital TV ISDB-Tb System

Ana C. Paredes, Nancy M. Tinguino, Gonzalo F. Olmedo and Freddy R. Acosta.

Experimental Characterization of a SFN Digital Broadcast Channel

M. V. Guerra, *NI Educational Unit, CEFET – RJ, Nova Iguaçu, Brazil.*

C. V. Rodriguez Ron, L. da Silva Mello, *Center for Telecommunication Studies, PUC-Rio, Rio de Janeiro, Brazil.*

Depth-Wise Multi-Protocol Stateless Switching of Multicast Traffic

Gonzalo M. Fernández, *Dept. of Electronics & Telecommunications Engineering, Universidad Católica San Pablo, Arequipa, Peru.*

David Larrabeiti, *Dept. of Telematics Engineering, Universidad Carlos III de Madrid, Madrid, Spain.*

On the reduction of the available bandwidth estimation error through clustering with K-means

Cesar D. Guerrero, *Universidad Autonoma de Bucaramanga –UNAB, Avenida 42 No. 48 – 11, Bucaramanga – Colombia.*

Dixon Salcedo Morillo, *Universidad de la Costa – CUC, St. 58 # 55 – 66, Barranquilla – Colombia.*

A traffic testbed to help in a site survey procedure for the deployment of a WiFiPhone network

Benítez Emily, Blanco Natalya, Gimón Grace, González Ricardo, Moreau Sergio, Mundo Antonio, *Computer Department, Simon Bolivar University, Caracas, Venezuela.*

Huerta Mónica, *Electronic and Circuit Department, Simon Bolivar University, Caracas, Venezuela.*

4:55PM - 6:15PM

TS4 - Future Internet and wireless mesh networks

Chair: Marinho Barcellos

Applying Advanced Network Resource Provisioning in Future Internet Systems

S. Jardim, *Informatics Institute, Federal University of Goiás, Goiânia-GO, Brazil.*

A. Neto, *Teleinformatics Engineering, Federal University of Ceará, Fortaleza-CE, Brazil, Institute of Telecommunications, University of Aveiro, Aveiro, Portugal.*

J. Castillo, *Teleinformatics Engineering, Federal University of Ceará, Fortaleza-CE, Brazil, Computer Engineering, University of Coruña, Coruña, Spain.*

E. Cerqueira, *Computer Engineering, Federal University of Para (UFPA), Belém-PA, Brazil.*

H. Barros, *Federal University of Rio Grande do Norte (UFRN), Natal-RN, Brazil.*

Trade-off Between Bandwidth and Energy Consumption Minimization in Virtual Network Mapping

Esteban Rodriguez and Gustavo Alkmim, *Institute of Computing, State University of Campinas.*

Daniel M. Batista, *Department of Computer Science, University of Sao Paulo.*

Nelson L.S. da Fonseca, *Institute of Computing, State University of Campinas.*

Experiences and Challenges in Deploying OpenFlow over a Real Wireless Mesh Network

Joaquín Chung, Grace González, Iván Armuelles, *University of Panama, Panama, Panama.*

Tomás Robles, Ramón Alcarria, Augusto Morales, *Technical University of Madrid (UPM), Madrid, Spain.*

Dynamic Labeling in Wireless Mesh Networks

Diego Américo Guedes, Eder dos Santos Silva, Kleber Vieira Cardoso, *Institute of Informatics (INF), Federal University of Goiás, Goiania, Brazil.*

Artur Ziviani, *National Laboratory for Scientific Computing (LNCC), Petrópolis, Brazil.*

Friday, November 9, 2012

9:25AM - 10:45AM

TS5 - Power line and optical networking

Chair: Germán Arévalo

Real time synchronization for OFDM/PLC system implemented with a DSP

Daniel Torres-Alvarado, Gerardo Abel Laguna-Sanchez, Alfonso Prieto-Guerrero, *Department of Electrical Engineering, Universidad Autónoma Metropolitana. Mexico, D. F.*

A TEO-Based Algorithm to detect events over OTDR Measurements in FTTH PON Networks

Lima, Gerson F. M; Lamounier, Edgard; Cardoso, Alexandre; Peretta, Igor, *Federal University of Uberlandia, MG- Brazil.*

Barcelos, Sergio; Muramoto, Willian; Rigon, Elso; *FiberWork Optical Communications, Campinas-Brazil.*

Quadrature Chaotic Symbolic Ofdm Communication Over Radio Channels

Luiz Bernardo, *Escola de Engenharia Universidade Presbiteriana Mackenzie- São Paulo – Brasil.*

P.B.Lopes, *Escola de Engenharia Universidade Presbiteriana Mackenzie- São Paulo –Brasil.*

Advantages of the use of VCSEL over RSOA for uplink transmission on WDM-PON networks

G. Arévalo and D. Cárdenas, *Member, IEEE.*

11:15AM - 12:15PM

TS6 - Performance evaluation and smart grids

Chair: Balasubramaniam Natarajan

An Approach for QoS Routing based on Packet Loss Probability

Emilio C. G. Wille and Marcos M. Tenório, *Federal University of Technology - Paraná (UTFPR), Curitiba (PR) – Brazil.*

Distributed Optimization for Shipboard Smartgrid

Sayak Bose, *Student Member IEEE*; Balasubramaniam Natarajan, *Senior Member IEEE*; Caterina Scoglio, *Senior Member IEEE*; Noel. N. Schulz, *Senior Member IEEE*; *Department of Electrical and Computer Engineering, Kansas State University, Manhattan, KS 66502.*

Stochastic State Estimation for Smart Grids in the Presence of Intermittent Measurements

Siddharth Deshmukh, Balasubramaniam Natarajan and Anil Pahwa; *Department of Electrical and Computer Engineering; Kansas State University, Manhattan, Kansas 66506-5204.*

2:45PM - 4:25PM

TS7 - Wireless communications II

Chair: Fernando Ramirez-Mireles

Analysis of Spectral Efficiency for Licensed Bands WIMAX

Marcia Maria Savoie, *Pontificia Universidade de Campinas, Caixa Postal 317, CEP: 13.012-970, Campinas - SP – Brazil.*

Norma Reggiani, *Pontificia Universidade de Campinas, Caixa Postal 317, CEP: 13.012-970, Campinas-SP – Brazil.*

Omar Carvalho Branquinho, *Pontificia Universidade de Campinas, Caixa Postal 317, CEP: 13.012-970, Campinas-SP – Brazil.*

CRUAM-MAC: A Novel Cognitive Radio MAC protocol for Dynamic Spectrum Access

J. Hernandez-Guillen, E. Rodriguez-Colina, R. Marcelín-Jiménez, M. Pascoe Chalke, *Department of Electrical Engineering, Autonomous Metropolitan University (UAM), Campus Iztapalapa, Mexico City, Mexico.*

Spectrum Sensing of TETRA Systems through Time-Frequency Analysis

Wilson D. Wellisch, Anatel, *University of Brasilia (UnB), Brazil.*

André N. Barreto, *Microwave and Wireless Systems Laboratory, University of Brasilia (UnB), Brazil.*

Optimization of Radio Network Design Problems for WLANs using Propagation Simulations

Carlos Andrés Viteri-Mera, Alexander Obando-Sarchi and Andrés Alberto Rodríguez-Rosas, *Departamento de Electrónica, Universidad de Nariño, Pasto, Colombia.*

Human Body Influence on Terminal in Wireless Communication

Marcos Patricio dos Santos, *University of Brasilia, Brasilia, Distrito Federal, Brasil.*

Adoniram J. Braga, *University of Brasilia, Brasilia, Distrito Federal, Brasil.*

4:55PM - 6:15PM

TS8 - Signal processing and communication theory

Chair: Stephen Wilson

Performance of Equi-Correlated M-ary UWB-FSK considering Antenna and Multipath Effects

Fernando Ramirez-Mireles, *ITAM, Mexico City, D.F. C.P. 01000, Mexico.*

Achievable Information Rates for Nonlinear Satellite Channels in Unidirectional and Bidirectional Relaying

Chenguang Xu, John Peng, Stephen G. Wilson, Toby Berger; *Department of Electrical and Computer Engineering, University of Virginia, Charlottesville, VA 22904.*

Evaluation of the Effects of Co-Channel Interference on the Bit Error Rate of Wireless Networks with Error

Correcting Codes in Fading Channels

Daniel Altamirano C., *Department of Electrical and Electronics Engineering – DEEE, Ecuadorian Armed Forces University – ESPE, Sangolquí, Ecuador.*

Celso de Almeida, *Department of Communications – DECOM, State University of Campinas – UNICAMP, Campinas, Brazil.*

Matrix Expansions for Computing the Discrete Hartley Transform for blocklength $N \equiv 0 \pmod{4}$

R. C. de Oliveira, *Coordination of Computer Engineering, Amazon State University, UEA Manaus, AM, Brazil.*

R. M. Campello de Souza and H. M. de Oliveira, *Department of Electronic and Systems, Federal University of Pernambuco, UFPE, Recife, PE, Brazil.*