

Technical Program PSATS '09

Wednesday 18th March

Keynote Speech (Time 8.30am – 9.30am)

Title: Satellite technology: from sky down to the Earth for a sustainable development

By: Antonio Saitto, Telespazio, Rome Italy

Session-1: Future Satellite Communications (Time: 9.45am-10.45pm)

Chaired By: Prof. Mario Marchese, University of Genoa

Title: *Comparisons on Performances in MIMO Systems under Different Propagation Environments*

By: Jun Sun, Nanjing University of Posts and telecommunications

Title: *Design and Implementation of P2P Streaming Systems for Webcast*

By: Yusuke Gotoh, Kentarou Suzuki, Tomoki Yoshihisa, Masanori Kanazawa, Kyoto University

Title: *Study of the Quantum Channel between Earth and Space for Satellite Quantum Communications*

By: Paolo Villoriesi, University of Padova, Italy

~ Tea Break ~

Session-2: Emerging Technologies and Solutions (Time: 11.00am-12.15pm)

Chaired By: Dr. Kandeepan Sithamparanathan, Create-Net, Italy

Title: Satellite broadband revolution: how latest Ka-band systems will change the rules of the industry. An interpretation of the technological trajectory

By: Fabio Valle, Eutelsat, France

Title: Triple play over satellite, the Ka band making the difference

By: Guillaume GB BENOIT, Eutelsat, France

Title: *Analysing the Orbital Movement and Trajectory of LEO (Low Earth Orbit) Satellite Relative to Earth Rotation*

By: Nafeesa Bohra, University of Passau

Title: *Spectral Analysis of Experimental Ka Band Propagation Measurements over the Australian LEO Microsatellite 'FedSat'*

By: Thorsten Kostulski, Sam Reisenfeld, University of Technology, Sydney

Title: *Frequency Tracking Performance Using a Hyperbolic Digital-Phase Locked Loop for Ka-band Communication in Rain Fading Channels*

By: Kandeepan Sithamparanathan, Piesiewicz Radoslaw, Create-Net, Italy

~ Lunch Break ~

Invited Talk: (Time: 1.45pm-2.30pm)

Title: Future Satellite Location Based System: Intelligent Transport System for Optimized Urban Trips

By: Dr. Giuseppe Conti, Fondazione Graphitech

Session-3: Performance Enhancing Proxies (PEPs) VRS end-to-end solutions for Internet applications over satellites (Time: 2.45pm-4.15pm)

Chaired By: Dr. Haitham Cruickshank, University of Surrey

Title: Broadband Satellite Multimedia (BSM) security architecture and Interworking with Performance Enhancing Proxies

By: Haitham Cruickshank, Centre for Communication Systems Research, University of Surrey

Title: A Cross-Layer PEP for DVB-RCS Networks

By: Giovanni Giambene; Universita' degli Studi di Siena, Italy, Snezana Hadzic; University of Siena

Title: PEPs Performance Analysis on Disruptive Radio Channels

By: Carlo Caini, Rosario Firrincieli, Daniele Lacamera, University of Bologna

Title: Performance Enhanced Proxy Solutions for Satellite

By: Igor Bisio, Mario Marchese, University of Genoa

Title: PEP Deployment and Bandwidth Management Issues

By: Younghusband C, Slade. P, Weaver J, XipLink Inc

~ Tea Break ~

Session-4: Resource Network Management (Time: 4.30pm-5.45pm)

Chaired By: Dr. Giuseppe Araniti; University Mediterranea of Reggio Calabria

Title: Time Scheduling Based on Tradeoff Between Detection Performance and QoS Requirement

By: Jun Sun, Nanjing University of Posts and telecommunications

Title: A satellite-based infrastructure providing broadband IP services on board high speed trains

By: eros feltrin, Eutelsat, France

Title: High Altitude Platforms: Radio Resource Management Policy for MBMS Applications

By: Alessandro RaschellÃ, Giuseppe Araniti; University Mediterranea of Reggio Calabria, Antonio Iera; University "Mediterranea" of Reggio Calabria, Molinaro Antonella; UniRC

Title: Combined Congestion Control and Link Selection Strategies for Delay Tolerant Interplanetary Networks

By: Igor Bisio; Uni of Genoa, Mario Marchese; University of Genoa, Tomaso de Cola; DLR

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Thursday 19th March

Sat Expo Exhibition and Presentation (please see Sat Expo agenda)