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Heraklion, Crete, Greece, 28-30 July 2014

Monday 28, July, 2014

09:00 - 09:30 Opening Ceremony

Dr. Evangelos Pallis, TEMU2014 General Chair
Room: ΑΡΙΑΔΝΗ - ARIADNI

09:30 - 10:30 Key Note Talk on "What's behind your smartphone icons? A brief tour of behind-the-scenes signaling and QoS for multimedia services"

Prof. Harry Perros, North Carolina State University, USA
Room: ΑΡΙΑΔΝΗ - ARIADNI

10:30 - 11:00 Coffee Break

11:00 - 11:45 Key Note Talk on "Spectrum Utilisation towards the 5G Evolution"

Prof. Christos Politis, Kingston University London, UK
Room: ΑΡΙΑΔΝΗ - ARIADNI

11:45 - 12:30 Key Note Talk on "Quality Assurance and Accreditation in Greek Higher Education: The Informatics and Telecommunication Studies Paradigm - Present and Future"

Prof. Vassilios Tsiantos, East Macedonia and Thrace Institute of Technology, Greece.
Prof. Sevaste Chatzifotiou, Democritus University of Thrace, Greece
Room: ΑΡΙΑΔΝΗ - ARIADNI

12:30 - 14:30 Lunch Break

Parallel Session - Room: ΑΡΙΑΔΝΗ - ARIADNI

14:30 - 16:00 S1: Next Generation Services and Service Delivery Platforms I

- *Interactive Mobile Application, Web Technologies and Fire Simulations in the Service of Forest Fire Volunteers*. Theoharis Mexis (Centre for Research and Technology Hellas, Greece); Kosmas Dimitropoulos (Centre for Research and Technology Hellas, Informatics and Telematics Institute, Greece); Nikos Grammalidis (Centre for Research and Technology Hellas, Greece)
- *A DIAMETER Based Security Framework for Mobile Networks*. Thanh Quang Tran (Technische Universität Berlin & Fraunhofer FOKUS, Germany); Yacine Rebahi (Fraunhofer Institut Fokus, Berlin, Germany); Thomas Magedanz (TU Berlin / Fraunhofer FOKUS, Germany)
- *An IMS-based Interoperable Architecture for Heterogeneous Emergency Services*. Fidel Liberal (University of the Basque Country, Spain); Jose Oscar Fajardo (University of the Basque Country, Spain); Mikel Ramos (University of the Basque Country, Spain); Harilaos Koumaras (NCSR Demokritos, Greece); Christos Sakkas (NCSR Demokritos, Greece); Michail Alexandros Kourtis (University of the Aegean, Greece)
- *A Multi-Mission Service Platform for Satellite-based Wide Area Surveillance*. Stratis Konakas (Space Hellas S.A., Greece); Spiros Pantazis (Space Hellas SA, Greece); Georgios Gardikis (Space Hellas S.A., Greece); Socrates Costicoglou (Space Hellas SA, Greece); Ilias Andrikopoulos (Space Hellas S.A., Greece); Javier Mulero Chaves (German Aerospace Center (DLR), Germany); Cristina Parraga Niebla (German Aerospace Center (DLR), Germany)
- *Virtual Network Functions Exploitation through a Prototype Resource Management Framework*. George Mastorakis (Technological Educational Institute of Crete, Greece); Evangelos K. Markakis (University of the Aegean, Greece); Evangelos Pallis (Technological Educational Institute of Crete, Greece); Constandinos X. Mavromoustakis (University of Nicosia, Cyprus); Georgios Skourletopoulos (Scientia Consulting S.A., Greece)

Parallel Session - Room: ΜΟΥΣΕΣ - MOUSSES

14:30 - 16:00 S2: Quality of Service and Quality of Experience

- *QoE Fairness, HTTP Adaptive Streaming and IDVB-T: The AWM approach*. Anargyros Sideris (University of the Aegean & Technological Educational Institute of Crete, Greece); Evangelos K. Markakis (University of the Aegean, Greece); Andreas Trigonis (Technological Educational Institute of Crete, Greece); George Alexiou (Technological Educational Institute of Crete, Greece); Evangelos Pallis (Technological Educational Institute of Crete, Greece); Harry Skianis (University of the Aegean, Greece)



- *A Quantitative Method for Graphical Representation of H.264 Video Content Dynamics*. Michail Alexandros Kourtis (University of the Aegean, Greece); Harilaos Koumaras (NCSR Demokritos, Greece); Harry Skianis (University of the Aegean, Greece); Fotis Lazarakis (NCSR Demokritos, Institute of Informatics & Telecommunications, Greece)
- *A Reliable Buffered Approach for Measuring Usage of Web Video*. Saayan Mitra (Adobe, USA); Viswanathan Swaminathan (Adobe Systems Inc, USA)
- *A New Approach for Spatial Audio Quality Assessment*. Abderrahmane Smimite (Laboratoire de Traitement et Transport de l'Information & Digital Media Solutions, France); Azeddine Beghdadi (L2TI, Université Paris 13, France); Ken Chen (Université Paris 13, France); Ouadie Jafjaf (Université Paris 13, France)
- *Quality Assurance and Accreditation in Greece: A critical look at the Informatics and Telecommunications Departments*. Vassilios Tsiantos (Technological Educational Institute of Eastern Macedonia and Thrace, Greece); Sevaste Chatzifotiou (Democritus University of Thrace, Greece); Kleomenis Oikonomou (Technological Education Institute of Athens, Greece)

16:00 - 16:30 Coffee Break

Parallel Session - Room: APIAANH - ARIADNI

16:30 - 18:00 S3: Next Generation Services and Service Delivery Platforms II

- *Home-Box based collaborative caching strategy: An asset for Content Delivery Networks*. Joachim Bruneau-Queyreix (University of Bordeaux, France); Daniel Nègru (University of Bordeaux, France); Jordi Mongay Batalla (National Institute of Telecommunications & Warsaw University of Technology, Poland)
- *Evaluating Selfishness Impact on MANETs*. Dimitra G. Kampitaki (University of Macedonia Greece & Computer Networks & Telematics Applications Laboratory, Greece); Eirini Karapistoli (University of Macedonia, Greece); Anastasios A. Economides (University of Macedonia, Greece)
- *A hyper-box approach using relational databases for large scale machine learning*. Stelios Papadakis (Technological Educational Institute of Crete, Greece); Evangelos Stykas (Snapette INC., Greece); George Mastorakis (Technological Educational Institute of Crete, Greece); Constandinos X. Mavromoustakis (University of Nicosia, Cyprus)
- *Efficient Event Detection in Public Transport Tracking*. Ármin Petkovics (Budapest University of Technology and Economics, Hungary); Karoly Farkas (Budapest University of Technology and Economics, Hungary)
- *Energy Consumption Management in Smart Homes: an M-Bus Communication System*. Roberto Cherchi (University of Cagliari, Italy); Giuseppe Colistra (University of Cagliari, Italy); Virginia Pilloni (University of Cagliari, Italy); Luigi Atzori (University of Cagliari, Italy)

Parallel Session - Room: ΜΟΥΣΕΣ - MOUSSES

16:30 - 18:00 S4: Quality and Performance of Wireless & Mobile Networks

- *Enhanced Hybrid Positioning in Wireless Networks I: AoA-ToA*. Muhammad Waqas Khan (University of Leeds, United Kingdom); Naveed Salman (University of Leeds, United Kingdom); Andrew H. Kemp (University of Leeds, United Kingdom)
- *Enhanced Hybrid Positioning in Wireless Networks II: AoA-RSS*. Muhammad Waqas Khan (University of Leeds, United Kingdom); Naveed Salman (University of Leeds, United Kingdom); Andrew H. Kemp (University of Leeds, United Kingdom)
- *Evaluation of a Transmission Count-Efficient Metric for Energy-Aware Routing in WSNs*. Lambros Sarakis (Technological Educational Institute of Sterea Ellada, Greece); Helen Leligou (TEI of Chalkida, Greece); Panagiotis Karkazis (Technical University of Crete, Greece); Terpsichori-Helen Velivassaki (Technological Educational Institute of Sterea Ellada, Greece); Theodore Zahariadis (TEI of Chalkida & Synelxis Solutions Ltd, Greece)
- *Performance Analysis of Reactive Routing Protocols in Mobile Ad hoc Networks*. Michalis Papadopoulos (University of Nicosia, Cyprus); Constandinos X. Mavromoustakis (University of Nicosia, Cyprus); Georgios Skourletopoulos (Scientia Consulting S.A., Greece); George Mastorakis (Technological Educational Institute of Crete, Greece); Evangelos Pallis (Technological Educational Institute of Crete, Greece)
- *Improving BitTorrent Content Delivery over Broadcast Networks*. Evangelos K. Markakis (University of the Aegean, Greece); Harry Skianis (University of the Aegean, Greece); Anargyros Sideris (University of the Aegean & Technological Educational Institute of Crete, Greece); Evangelos Pallis (Technological Educational Institute of Crete, Greece)

18:00 - 18:15 End of Day 1

Tuesday 29, July, 2014

09:00 - 09:45 Key Note Talk on "The role of IPv6 in IOT, SDN, CC and 5G"

Latif Ladid, University of Luxembourg

Room: APIAANH - ARIADNI

09:45 - 10:30 Key Note Talk on "Digital Communications over Fast Fading Channels"

Prof. P. Takis Mathiopoulos, University of Athens, Greece

Room: *APIAANH – ARIADNI*

10:30 - 11:00 Coffee Break

11:00 - 12:30 Panel Discussion on "Internet of Things Perspectives"

Latif Ladid, University of Luxembourg - Sébastien Ziegler, Mandat International, Geneva, Switzerland - Prof. Peter T.

Kirstein, University College London, UK - Prof. Sotiris Nikolettseas, University of Patras, Greece - Dr Srdjan Krco, Ericsson

Room: *APIAANH – ARIADNI*

12:30 - 14:30 Lunch Break

Parallel Session - Room: APIAANH - ARIADNI

14:30 - 16:00 S5: Wireless Communications I

- *Cognitive VANET with Enhanced Priority Scheme*. Joanne Mun-Yee Lim (SEGi University, Malaysia); Yoong Choon Chang (Multimedia University, Malaysia); Mohamad Yusoff Alias (Multimedia University & Academic Honorary Visitor at University of Manchester, Malaysia); Jonathan Loo (Middlesex University, United Kingdom)
- *A High Throughput H-ARQ Technique with Faster-than-Nyquist Signaling*. Francisco Ganhão (Universidade Nova de Lisboa, Portugal); Bruno Cunha (FCT-UNL, Portugal); Luis Bernardo (Universidade Nova de Lisboa, Portugal); Rui Dinis (Faculdade de Ciências e Tecnologia, University Nova de Lisboa, Portugal); Rodolfo Oliveira (Nova University of Lisbon, Portugal)
- *Low Complexity Multiple User Detection for SC-FDE with OQPSK Signals*. Miguel Luzio (Instituto de Telecomunicações/UNINOVA/FCT-UNL, Portugal); Rui Dinis (Instituto de Telecomunicações & FCT-UNL, Portugal); Paulo Montezuma (FCT-UNL, Portugal)
- *Satellite-Based Sensor Networks: M2M Sensor Communications and Connectivity Analysis*. Stavroula Vassaki (National Technical University of Athens, Greece); Georgios Pitsiladis (National Technical University of Athens, Greece); Charilaos Kourogiorgas (National Technical University of Athens, Greece); Marios I. Poulakis (National Technical University of Athens, Greece); Athanasios D. Panagopoulos (National Technical University of Athens, Greece); Georgios Gardikis (Space Hellas S.A., Greece); Socrates Costicoglou (Space Hellas SA, Greece)
- *LTE-A Interworking for Seamless Service Provisioning*. Angelos Michalas (Technological Education Institute of Western Macedonia, Greece); Angeliki Sgora (University of Piraeus & VTT Technical Research Centre of Finland, Greece); Dimitrios D. Vergados (University of Piraeus, Greece)

Parallel Session - Room: ΜΟΥΣΕΣ - MOUSSES

14:30 - 16:00 S6: Antennas, Propagation and Measurements

- *Performance of an Ideal Wireless Orbital Angular Momentum Communication System Using Multiple-input Multiple-output Techniques*. Kwasi Adu-Boahen Opere (MobileLink LAB, University of Electronic Science and Technology, P.R. China); Yujun Kuang (University of Electronic Science and Technology of China, P.R. China)
- *IWO-based Synthesis of Log-Periodic Dipole Array*. Zaharias D Zaharis (Aristotle University of Thessaloniki, Greece); Christos Skeberis (Aristotle University of Thessaloniki, Greece); Pavlos Lazaridis (Alexander Technological Educational Institute of Thessaloniki, Greece); Dimitrios Stratakis (Technological Educational Institute of Crete, Greece); Thomas Xenos (Aristotle University of Thessaloniki, Greece)
- *ZAM Distribution Analysis of Radiowave Ionospheric Propagation Interference Measurements*. Christos Skeberis (Aristotle University of Thessaloniki, Greece); Zaharias D Zaharis (Aristotle University of Thessaloniki, Greece); Dimitrios Stratakis (Technological Educational Institute of Crete, Greece); Thomas Xenos (Aristotle University of Thessaloniki, Greece)
- *Noise Reduction for Accurate Power Measurements of Low Level Signals*. Dimitrios Stratakis (Technological Educational Institute of Crete, Greece); A. Miaoudakis (Technological Educational Institute of Crete, Greece); George Mastorakis (Technological Educational Institute of Crete, Greece); Evangelos Pallis (Technological Educational Institute of Crete, Greece); Thomas Xenos (Aristotle University of Thessaloniki, Greece); Traianos Yioultsis (Aristotle University of Thessaloniki, Greece); Constandinos X. Mavromoustakis (University of Nicosia, Cyprus)

16:00 - 16:30 Coffee Break

Parallel Session - Room: APIAANH - ARIADNI

16:30 - 18:00 S7: Wireless Communications II

- *A new approach for a better recovery of cluster head nodes in underwater sensor networks*. Kyriakos Ovaliadis (University of Portsmouth, United Kingdom); Nick Savage (University of Portsmouth, United Kingdom); Vassilios Tsiantos (Technological Educational Institute of Eastern Macedonia and Thrace, Greece)
- *AOA estimation for coexisting UWB signals with multipath channels*. Hsin-Chin Liu (National Taiwan University of Science and Technology, Taiwan); Cheng-Wei Hsuan (National Taiwan University of Science and Technology, Taiwan)
- *Low complexity LDPC coded IB-DFE for multilevel modulations and coded OFDM: comparison and complexity trade-offs*. Paulo Montezuma (FCT-UNL, Portugal); Daniel Marques (FCT-UNL, Portugal); Rui Dinis (Instituto de Telecomunicações & FCT-UNL, Portugal)
- *Design of Good Constellations for Single-Subcarrier Intensity-Modulated Optical Systems*. Marko Beko (ULHT/UNINOVA & UNINOVA, Caparica, Portugal); Rui Dinis (Faculdade de Ciências e Tecnologia, University Nova de Lisboa, Portugal); Miroslava Raspopovic (Belgrade Metropolitan University, Serbia); Vlatko Lipovac (University of

Dubrovnik, Croatia); Dzenan Strujic (Institute of Modern Technology Montenegro, Montenegro)

- *Enabling Wireless Prosumers in 5G Networks*. Nikolaos Nomikos (University of the Aegean, Greece); Prodromos Makris (Computer Technology Institute, Greece); Dimitrios N Skoutas (University of the Aegean, Greece); Demosthenes Vouyioukas (University of the Aegean, Greece); Harry Skianis (University of the Aegean, Greece)

Parallel Session - Room: ΜΟΥΣΕΣ - MOUSSES

S8: e-Services and Interactive Applications

- *Ambient Affiliation on Twitter: A Case Study on Organic Farming*. Sofia Kozaki (TEI of Crete, Greece); Demosthenes Akoumianakis (Advanced Technological Education Institution of Crete, Greece)
- *Collaborative Music Composition as Virtual Work across Boundaries*. George Vlachakis (ATEI, Greece); Anastasios Kalaentzis (Technological Education Institution of Crete, Greece); Demosthenes Akoumianakis (Advanced Technological Education Institution of Crete, Greece)
- *Discovering the Impact of User Profiling in E-Services*. Kleanthis Gatzliolis (University of Peloponnese, Greece); Anthony Boucouvalas (University of Peloponnese, Greece)
- *Future Proof Analytics techniques for Web 2.0 Applications*. Constantine Aivalis (Technological Education Institute of Crete, Greece); Anthony Boucouvalas (University of Peloponnese, Greece)
- *Building a Gait Analysis Framework for Parkinson's Disease Patients: Motion Capture and Skeleton 3D Representation*. Ioannis Pachoulakis (Technological Educational Institute of Crete, Greece); Konstantinos Kourmoulis (TEI of Crete, Greece)

20:00 - 23:00 Galla Dinner

Wednesday 30, July, 2014

09:00 - 11:00 Special Session on "3D Multimedia Transmission over Future Networks"

Chair: Carl J. Debono (University of Malta, Malta)

Room: ΑΡΙΑΔΝΗ - ARIADNI

- *Adaptive Video Streaming on top of Web3D A bridging technology between X3DOM and MPEG-DASH*. Kostas Kapetanakis (Technological Educational Institute of Crete, Greece); Spyros Panagiotakis (Technological Educational Institute of Crete, Greece); Athanasios G. Malamos (Technological Educational Institute of Crete, Greece); Markos Zampoglou (University of Macedonia, Greece)
- *Predictive Multicast Group Management for Free Viewpoint Video Streaming*. Árpád Huszák (Budapest University of Technology and Economics, Hungary)
- *A Kinect-Based Framework For Better User Experience in Real-Time Audiovisual Content Manipulation*. Emmanouil Potetsianakis (Telecom ParisTech, France); George Triantafyllidis (Aalborg univ Copenhagen, Denmark); Emmanouil Ksylakis (Technological Educational Institute of Crete, Greece)
- *Scene integration for virtual worlds*. Michael Kalochristianakis (Technological Educational Institute of Crete & University of Crete, Greece); Markos Zampoglou (University of Macedonia, Greece); Kostas Kontakis (Technological Educational Institution of Crete, Greece); Kostas Kapetanakis (Technological Educational Institute of Crete, Greece); Athanasios G. Malamos (Technological Educational Institute of Crete, Greece)
- *Stereo Video Quality Evaluation in Heterogeneous Networking Conditions*. George Papadogiannopoulos (Hellenic Open University & University of Patras, Greece); Tasos Dagiuklas (Hellenic Open University & University of Patras, Greece); Ilias Politis (Hellenic Open University & University of Patras, Greece); Asimakis Lykourgios (University of Patras, Greece); Stavros Kotsopoulos (Wireless Telecommunications Laboratory, Greece)
- *Subjective and Objective Evaluation and Packet Loss Modeling for 3D Video Transmission over LTE Networks*. Moustafa Nasralla (Kingston University, United Kingdom); Chaminda T. E.R. Hewage (University of Kingston, United Kingdom); Maria G. Martini (Kingston University, United Kingdom)
- *An Evaluation of Multi-view Video Transmission Performance on Long Term Evolution Networks*. Gloria-Anne Ellul (University of Malta, Malta); Carl J. Debono (University of Malta, Malta)

11:00 - 11:30 Coffee Break

11:30 - 13:00 Panel Discussion on "3D Content-Aware Networking Environment"

Chair: Evangelos Pallis (Technological Educational Institute of Crete)

Room: ΑΡΙΑΔΝΗ - ARIADNI

13:00 - 13:15 Closing Ceremony

Dr. Evangelos Pallis, TEMU2014 General Chair

Room: ΑΡΙΑΔΝΗ - ARIADNI

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