

Related IST projects: SATSIX, SATNEX, IMOSAN, VIVALDI and SATLIFE

Length of the workshop: Full day

Title of the proposed workshop:

International Workshop on IP Networking over Next-generation Satellite Systems (INNSS'07)

Name of the workshop coordinator:

Dr. Linghang Fan and Dr. Haitham Cruickshank

Affiliation of the workshop coordinator:

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Rational: the overall objective of the workshop

With the boom of Internet, IP-based applications, such as WWW and multimedia, have been an essential part of our life, and there is an ever-increasing demand for accessing high-speed Internet services anywhere and anytime. This trend unavoidably has huge impacts on the design of the next-generation satellite systems. On the other hand, with its broadcasting nature and unique coverage, satellite systems also can play an important role in the next-generation Internet. For example, satellite systems can be a good driver for the deployment of IPv6 in the Internet, and can provide a fast way to reach end-users because they do not rely on construction of a high-speed terrestrial networks. This workshop will focus on the IP networking of the next-generation satellite systems.

Program of the workshop:

Time	Program
8:50 – 9:00	Welcome and reception
9:00 – 9:20	<i>New Architecture for Next Generation Broadband Satellite Systems -- the Satsix Approach</i> Cedric Baudoin Thales Alenia Space
9:20 – 9:40	<i>SATLIFE: A big step into the enhancement of the regenerative satellite generation</i> Miriam Catalán Hispasat
9:40 – 10:00	<i>SATSIX Satellite System and Network</i> Elisa Callejo Thales Alenia Space España
10:00 – 10:20	<i>Fast IP Handover Between Satellite Network and Wireless LAN Network for high-speed trains</i> Myung Hee Han Korea Aerospace University
10:20 – 10:40	<i>SATSIX Mobility Architecture and its performance evaluation</i> Inge Melhus SINTEF
10:40 – 11:00	Coffee Break
11:00 – 11:20	<i>Cross-layer anticipation of resource allocation for multimedia applications over DVB-RCS based on SIP signalling</i> Frédéric Nivor LAAS-CNRS
11:20 – 11:40	<i>Radio Resource Management for next generation DVB-RCS systems</i> Antonio Pietrabissa University of Rome “La Sapienza”
11:40 – 12:00	<i>SATSIX: A network architecture for next generation DVB-RCS systems</i> Linghang Fan University of Surrey
12:00 – 12:20	<i>Overview of SATNEX Project</i> Anton Donner DLR
12:00 – 12:40	<i>Interworking Strategy between DVB-RCS and WiMAX</i> Filippo Rodriguez Telespazio S.p.A.
12:40 – 13:00	<i>The use of novel satellite broadcast technologies for the provision of integrated services</i> Evangelos Pallis NCSR 'Demokritos'
13:00 – 14:00	Lunch Break
14:00 – 14:20	<i>Service Integration in Satlife Regenerative Network</i> Isaac Moreno Thales Alenia Space España
14:20 – 14:40	<i>Satsix QoS Architecture</i> Borja de la Cuesta University of Valladolid
14:40 – 15:00	<i>SatSix and Recent Standardisation Results in ETSI Broadband Satellite Multimedia (BSM) networks</i> Rob Mort Systemk

15:00 – 15:20	<i>IPv6 Networking Over Satellite For Mobile User Groups</i> Axel Jahn Triagnosys
15:20 – 15:40	<i>Multicast architecture for IPv6 over DVB-RCS Satellite Networks</i> Ana Yun Thales Alenia Space España
15:40 – 16:00	<i>PLATINE: DVB-S2/RCS enhanced Testbed for Next Generation Satellite Networks</i> Cedric Baudoin Thales Alenia Space
16:00 – 16:20	Tea break
16:20 – 16:40	<i>Overview of the SATSIX trials</i> Aurora Ramos Telefonica I+D
16:40 – 17:00	<i>ULE Link Layer Security for DVB Networks</i> Sunil Iyengar University of Surrey
17:20 – 17:40	<i>Comparison of Header Compression Schemes over Satellite Links</i> Gerasimos Dimitriadis Aristotle University of Thessaloniki - AUTH
17:40 – 18:00	<i>Implementing VoIP support in VSAT networks based on SoftSwitch integration</i> Yosy Hecht Gilat Satellite Networks Ltd.
18:00 – 18:20	<i>VIVALDI Meta-Architecture: Flexible QoS Provisioning over DVB-RCS Satellite Networks</i> Teemu Kärkkäinen Helsinki University of Technology TKK
18:20 – 18:40	<i>Secure Multicast in the Broadband Satellite Multimedia Networks</i> Haitham Cruickshank University of Surrey
18:40	Close the Workshop

