Synthesizing Environmental Information

Division IX (AES, GRS, IT, ITS, OE, SP, VT) for Quality of Life

Monday, July 27 , 17:30 - 19:00
Location Room Yellow 1 1st floor

Division IX groups seven IEEE Societies: Aerospace and Electronics Systems (**AES**), Geoscience and Remote Sensing (**GRS**); Information Theory (**IT**), Intelligent Transportation Systems (**ITS**), Ocean Engineering (**OE**), Signal Processing (**SP**), Vehicular Technology (**VT**).

Since 2013 the Division IX Societies have identified a common technical interest in the activities related to the use of technology for improving the Quality of Life of people. In this frame, the Division has recently identified a common topic to work on: **S**ynthesizing **E**nvironmental **I**nformation (**SEI**). SEI is multidimensional and multidisciplinary approach that moves from the skills of the seven Societies and aims at gathering a worldwide community around the topic where young professionals and students will play a key-role.

The scope of SEI is to extract and utilize knowledge on the E-environment in order cope with the environmental issues (global and local scales) with a systematic and timely engineering design approach, and a SoS (System of Systems) framework. One of the goals is also to bring together scholars and practitioners in eScience and in engineering to develop a framework for building an optimal knowledge infrastructure for researchers working on the core scientific issue of earth system dynamics – one which has immense importance for the future management of our planet. One of the themes could be the use of big data from the social and natural sciences to improve the quality of life for future generations.

Division IX has also started a Research Group on the pilot version of the new IEEE tool named Collabratec™ about the topic.

The Session will present the topic "**S**ynthesizing **E**nvironmental **I**nformation", the contributions therein from the Division Societies, the related activities on Collabratec^{TM} and future perspectives.

In particular, the speakers are:

- **Division IX**: Marina Ruggieri (Director, ruggieri@uniroma2.it)

- **AES and SPS**: Sabrina Maria Greco (Division IX activities rep, m.greco@iet.unipi.it)

- **OE:** René Garello (President, rene.garello@telecom-bretagne.eu).

- **GRS:** Adriano Camps (camps@tsc.upc.edu)

A welcoming address to the Session will be given by Kamal Sarabandi (**GRS** President, saraband@eecs.umich.edu) and by the IGARSS 2015 General Co-Chairs, Sebastiano Serpico and Vito Pascazio.