

EWSN 2005 PRESS RELEASE

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The Second Annual European Workshop on Wireless Sensor Networks will be held in Istanbul

The Second Annual European Workshop on Wireless Sensor Networks (EWSN 2005) will be held in Istanbul between January 31 and February 2, 2005. The workshop aims to serve as a platform for researchers from academia, research laboratories, and industry from all over the world to share their ideas, views, results, and experiences in the field of wireless sensor networks. It is also an activity of the European project titled "Cooperating Embedded Systems for Exploration and Control featuring Wireless Sensor Networks - Embedded WiSeNts" (<http://www.embedded-wisents.org>), which is a Coordination Action (CA) funded by the European Commission under the Information Society Technology (IST) priority within the 6th Framework Programme (FP6). In EWSN 2005, 35 technical papers and 10 posters will be presented by the researchers from Austria, Belgium, China, Finland, Germany, Greece, India, Ireland, Italy, the Netherlands, Singapore, Spain, Sweden, Switzerland, Taiwan, Turkey, United Kingdom and USA. In addition to this, European Union Projects related to sensor networks, namely, COBIS, COMETS, EYES, E-next, GOODFOOD, MAGNET, MyHeart, NEWCOM, RUNES, Smart Surroundings and Sustainable Bridges as well as the European experience gained in these projects will be explained during a special session. Moreover, there will be two half day tutorials, a parallel workshop for EYES project and a meeting for Embedded WiSeNts project. EWSN 2005 web site is at "<http://www.ewsn.org>."

Wireless Sensor Networks

Wireless Sensor Networks (WSNs) are fast emerging as a new sensing paradigm based on the collaborative effort of large number of sensors deployed close to or inside the phenomenon to be observed, and have the potential of providing diverse services to numerous applications. What started some years ago in the United States, is now becoming one of the hottest areas of research all around the world in various disciplines. Sensor networks, not that long ago considered by many as something strange and unimportant, is now acknowledged to be one of the candidates to be 'the next big thing'.

The realization of WSNs requires intensive technical research efforts especially on energy efficient scalable wireless ad hoc communication protocols due to their unusual application requirements and unique constraints. Additionally, WSNs are further evolving from simple data transportation networks to functionally rich distributed systems such that the tasks of event sensing and acting upon the phenomenon can be collectively realized in an autonomous manner by sensor and actuator nodes.

The sensor network research community at large has been very successful in advancing the infrastructure components for sensing systems, and in exploring the design opportunities for novel applications. This work is compelling but has mostly remained centered around single applications and mechanisms as opposed to distributed systems composed of many devices and supporting various applications. Even though this research have identified some of the requirements for sensor network implementation stressing the role of energy-efficient design, and have proposed solutions for some of the critical issues such as energy-efficient routing, some important areas such as self-configurable and reconfigurable energy-efficient architectures, maintainability, security, as well as application-dependent issues like reliability, have been addressed marginally by the current research. Also an integrated overall approach to energy-efficient design is in its earlier stages, and would be extremely beneficial for sensor network design.

Therefore, it is of great importance that researchers from all over the world collaborate, and through EWSN we hope to give an opportunity to delegates and participants to interact with each other for inspiration and guidance to address some of the challenging interdisciplinary problems. The objective of EWSN 2005 is to bring together researchers from different backgrounds ranging from hardware to applications, to create a forum where cross-layer integration, novel solutions for specific problems, and the future development of WSN functionalities can be discussed.