

Press Release

Workshop Focuses on Novel Control Methodologies over Wireless Networked Systems

(Venice, 22 July 2009) The FeedNetback European project announced its annual workshop taking place in the historic city on 23 Sept 2009.

FeedNetback has scheduled its first annual Workshop in September this year, focusing on methodologies for solving problems in the context of control of networked systems. Acknowledging the increased interest in the field, the workshop takes place in conjunction with the IFAC Workshop on Estimation and Control of Networked Systems NecSys'09 (<http://www.necsys.org>) in Venice.

First in a series of three, the 2009 FeedNetback Workshop will concentrate on the key issues of design and implementation of feedback over wireless networks, from both a research and industrial perspective. The Workshop is designed for system designers and decision makers including managers and indeed anyone concerned with issues of implementing networked control systems. Speakers from academia and industry will present their experience with existing systems, with information about the latest advances and the remaining challenges.

The Workshop programme places great emphasis on serving the needs of the user community, i.e. companies that own, operate, design, build or maintain facilities and process plants. The programme is organised in four sessions:

- a. session comprising 3 keynote presentations giving a overview of the latest research results on control and complexity, computation and energy efficiency from within the FeedNetback work programme;
- b. session comprising 2 invited academic presentations from Australia and USA presenting the topics of Communication-Constrained Multi-Agent Control and Model segmentation in Networked Control Systems, respectively;
- c. session comprising 3 presentations on the application challenges addressed by the project (motion capture, autonomous underwater vehicles and surveillance systems using networks of smart cameras); and
- d. presentations and a panel discussion with a mixture of external speakers from the Automotive, Aerospace, Industrial Automation and Security sectors presenting and discussing applicability of technologies in current and future application domains.

A major aim of the Workshop is to understand the needs of companies to plan and make the transition from conventional feedback systems as easy (and jargon free) as possible. As a part of this the sessions will include audience participation, and attendees are encouraged to submit the questions they wish to see answered in advance, for the presenters to cover that topic. Further discussions with the presenters and other delegates can be developed during the event breaks. All presentations as well as the key points from the panel discussion will be published electronically in the event's proceedings.

The venue is Centro Culturale, Don Orione Artigiannelli, in Venice, Italy. The fifteenth century structure was once used as a convent by Jesuits, was extended by the Dominicans in the eighteenth century and transformed into a public orphanage after the fall of Napoleon. It has recently completed a multi million euro refurbishment to give all the benefits of an International Congress Centre. The venue is within easy reach of Venice Marco Polo International Airport.

“There are several examples of infrastructures which can benefit on the co-design framework we are developing, such as, camera-based surveillance systems, car traffic control in road networks, power grid control, water distribution networks and autonomous multi-vehicle exploration. The problems to be faced require an interdisciplinary competence covering control, communication and computer science, and consequently the need to establish a common language and culture follows naturally.” says Professor Sandro Zampieri, of Padova University and member of the FeedNetback consortium. “The FeedNetback Workshop 2009 will ascertain the state of the art on the subject by involving several

leading scientists working on these problems and people from industry who are encouraged to contribute in specifying the research objectives”, he continues.

Intending delegates should register on line at <http://www.feednetback.eu/workshop2009>. In case of difficulty contact Myriam Etienne, myriam.etienne@iniralpes.fr. To be kept up to date about the Workshop schedule and outcomes, please join the FeedNetback Interest Group by emailing ig@feednetback.com

Find more information on the FeedNetback web portal www.feednetback.eu

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