Worksop: Modular Surgical Robotics: how can we make it possible?
18th May 2012, St. Paul - Minnesota, USA

http://www.icra2012.org/

Chairs:

Paolo Fiorini, University of Verona, Italy
Giancarlo Ferrigno, Politecnico di Milano, Italy
Elena De Momi, Politecnico di Milano, Italy

IMPORTANT DATES

Deadline for submission of contributions: **April 15th, 2012**

Notification of Acceptance: **May 1st, 2012**

CALL FOR CONTRIBUTIONS

We invite scientists and companies active in the field of **robotic surgery** to submit contributions to the Workshop on Modular Surgical Robotics that will be held at ICRA2012. Contributions are expected to discuss how surgical robotics can be made modular by means of appropriate methods, e.g. standards, new interfaces, software and hardware architectures, validation, and benchmarking. The workshop topics are in the focus of the new **European project Eurosurge** (http://www.eurosurge.eu/), which is aimed at structuring a **network of laboratories**

in robotic surgery and at
promoting modularity
in
the cooperative (open hardware) development of robots.

The workshop will be divided into three sessions:

the first summarizing the current status of Eurosurge; the second with presentations from experts outside the project; and the third with a
discussion expected to provide suggestions and opinions about introducing
modularity into robotic surgery.

Program:

8:30	Welcome
8:35 P. Fiorini	Robotic surgery, the need for synergies and standardization
9:05 G. S. Virk	International robot safety standardization
9:35 T. Haidegger	Standardization efforts in medical robotics

10:05

Coffee break

10:30 G. A. Cole	Closed-loop actuated modular surgical system utilizing real-time in-situ MRI
11:00 G. Ferrigno	Modular control strategies in neurosurgical robots
11:30 F. Vicentini	Distributed real-time robot control: the ACTIVE project experience

12:00

Lunch

13:30 J. Hergenhan	An electrotactile display with spiked electrodes for robot-assisted minimally
14:00 P. Fiorini	Patient safety and automation in robotic surgery: the Safros and Isur EU pro
14:30 K. Althoefer	Variable stiffness controllable and learnable manipulator for MIS

15:00	K. Cleary	A modular system architecture for robotic natural orifice transluminal endosc
15:30	M. Niccolini	Development of robotic platforms for single port anc

16:00

Coffee break

16:30	G. Salvietti	A task priority approach for modular robots in minim
17:00	P. Fiorini	Discussion

17:30

Closing

Please send inquiries and contributions to:

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