eu 2012 Robotics Forum
march 5-7 ODENSE DENMARK

Towards new horizons

Workshop on ***Robotics in Education***

Educational Robotics for tomorrow's roboticists and forthcoming non roboticists users of service robots

Better tools, improved methodology

Odense, Denmark

Magasinet, Farvergården 19

5000 Odense C

March 6, 15:30 – 18:00

"Educational robotics" has been proved to be valuable not only for its motivational effects to excite students about science and technology, and to prepare future robotics engineers, but also as a growing commercial sector.

This workshop will address the new horizons of "learning about robotics, learning through robotics", featuring methodology and tools from elementary school grades to PhD's.

A new class of robotic engineers could come out from well tuned application of educational robotics to the educational system, so widening the research areas and market products.

Furthermore, a new class of non-roboticists end users of robots (medical doctors, nurses, clerks, employees, ecc.) are to be considered: they will need easy-to-learn training courses where the whole methodology and tools studied and tested in the educational robotics classes will be employed.

Organizers:

- Center for Experimental Surgical Robotics, Verona, Paolo Fiorini (paolo.fiorini@univr.it)
- Master RIS, University of Naples "Federico II", Bruno Siciliano (siciliano@unina.it)
- School of Robotics, Italy (micheli@scuoladirobotica.it)

For information: micheli@scuoladirobotica.it

UNIVERSITÀ DEGLI STUDI DI VERONA

GENOVARCHITETTURA

Università degli Studi di Genova
Facoltà di Architettura
University of Genoa
Faculty of Architecture

ALDEBARAN Robotics

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Robotics and Intelligent Systems

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PROGRAM

15: 30 *Introduction*: Bruno Siciliano, Faculty of Engineering, University of Naples

15:40 Paolo Fiorini, Center for Experimental Surgical Robotics, Verona:
From LEGO to YouBot, a new education path in service robotics

16:00 Emanuele Micheli, School of Robotics:
Verticality and continuity in educational robotics' programming languages

16:20 Rodolphe Gelin, Aldebaran: *Humanoid robots for education*

16:40 David Cuartielles, Arduino: *Arduino Platform for Robotics*

17:00 Bruno Siciliano:
The Master's on Robotics and Intelligent Systems at University of Naples Federico II

17:20 Niccolò Casiddu, University of Genoa:
Design and Robotics for people with special needs: An academic experience

17:40 Conclusions.

Objectives:
Featuring new educational robotics platforms (Nao, Arduino, YouBot);
Promoting new learning methodologies (Virtual Lab, synergies among scientific subjects, starting research;)
Presenting some case studies where professional tools (LabVIEW, Autodesk Inventor, Kuka Sim.Pro, at al.) applied to educational robotics have been profitably used in school;
Outline the beneficial feedback effects - from school to research and industry - of some interesting robotics applications.

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