

3rd International Workshop

“Teaching Robotics, Teaching with Robotics” 2012 Integrating Robotics in School Curriculum

Riva del Garda(TN), Italy - Friday April 20th, 2012

Chair

Dimitris Alimisis, Dept. of Education, School of Pedagogical and Technological Education, Patras, Greece

Michele Moro, Dept. of Information Engineering, Univ. of Padova, Italy

Local Chair

Emanuele Menegatti, Dept. of Information Engineering, Univ. of Padova, Italy

Agenda

8.00-9.00 Registration

9.00-9.15 Welcome – Introduction to the workshop

9.15-10.45 Oral presentations 1

9.15-9.30 **Dave Catlin** - Maximising the Effectiveness of Educational Robotics through the Use of Assessment for Learning Methodologies

9.30-9.45 **Martina Kabátová**, Ludmila Jašková, Peter Lecký and Vladimíra Laššáková - Robotic Activities for Visually Impaired Secondary School Children

9.45-10.00 **Karolina Mayerova** - Pilot activities: LEGO WeDo at primary school
Bulent Cavas and Teoman Kesercioglu - The Effects of Robotics Club on the Students' Performance on Science Process & Scientific Creativity Skills and Perceptions on Robots, Human and Society

10.00-10.15 **Daniel Toháček** and Jakub Lapeš - Project of integration educational robotics into the training programme of future ICT teachers

10.15-10.30 **Grzegorz Cielniak**, Nicola Bellotto and Tom Duckett - Integrating Vision and Robotics into the Computer Science Curriculum

Poster presentations

Elisa Buselli, Francesca Cecchi, Paolo Dario and Luca Sebastiani - Teaching Robotics through the Inquiry Based Science Education approach

Fausto Ferreira, Ana Dominguez and Emanuele Micheli - Twitter, Robotics and Kindergarten

10.45-11.00 Stavros Demetriadis, **Soumela Atmatzidou** and Theodosios Sapounides - The AUTH Framework for Research in Educational Robotics: Collaboration Scripts, Metacognitive Skills, Tangible Interfaces and the CPPC+ Model

Martin Kandlhofer, Gerald Steinbauer and Petra Sundström - Educational Robotics – Evaluating long-term effects

Raphaela Schneider, Christoph Leibinger, Alexandra Jentsch, Iolanda Leite, Ana Paiva, Carsten Zoll and Sibylle Enz - Does empathic Robot Behavior enhance positive Emotions in Child-Robot Interaction?

11.00-11.15 Coffee break – Poster session

11.15-12.45 Oral presentations 2

11.15-11.30 **Iliaria Gaudiello**, Elisabetta Zibetti and Carol-Ann Pinaud - Control heuristics for educational robots: a pilot study

11.30-11.45 **O Duill Micheál** - Technicity, T-concepts, Turing Teaching and Elementary Robotics

11.45-12.00 Lorella Burlin and **Tito Sartori** - Ingenium: an exploratory research on learning processes specific to robotic labs

12.00-12.15 **Filippo Bonaccorso**, Antonio D'Arrigo, Giovanni Muscato and Alessandro Napoli - Minirobot - An original international robotic competition for high school students of Etna Valley: considerations after seven editions

12.15-12.30 **Dominik Kirchner** and Kurt Geihs - Merging Backgrounds – An Interdisciplinary Course Concept for a Robotic Laboratory

12.30-12.45 **Michele Scandola** and Paolo Fiorini - Digital Storytelling Teaching Robotic Basics in a Surgical Robotic Curriculum

12.45-14.00 Lunch – Poster session

14.00-15.30 Oral presentations 3

14.00-14.15 **Dave Catlin** and Sylvester Robertson - Using Educational Robots to Enhance the Performance of Minority Students

14.15-14.30 Rosella Gennari, **Gabriella Dodero** and Andrea Janes - Junior University Workshops for Children

14.30-14.45 **Edoardo Datteri**, Luisa Zecca, Federico Laudisa and Marco Castiglioni - Explaining robotic behaviors: a case study on science education

14.45-15.00 **Tullia Urschitz** and Tasha Carl - Mission on Mars – Interactive robotics session, on videoconference, through the use of Interactive White Board (IWB)

15.00-15.15 Marco Ruzzenente, Moreno Koo, Katherine Nielsen, **Lorenzo Grespan** and Paolo Fiorini - A Review of Robotics Kits for Tertiary Education

15.15-15.30 **Kostas Dimitriou** - A more structured way to teach robotics with robotics

15.30-15.45 Coffee break – Poster session

15.45-16.15 Oral presentations 4

15.45-16.00 **Dimitris Alimisis** - Integrating Robotics in Science and Technology Teacher Training Curriculum

16.00-16.15 Fransiska Basoeki, Fabio Dalla Libera, **Emanuele Menegatti** and Michele Moro - Robot kits from Japan: new frontiers in education

16.15-17.55 Workshop panel

Panel discussion: development of studies and methodologies to integrate robotics in school curriculum

17.20-18.00

17.55-18.00 Farewell

Location: The workshop will take place at the FiereCongressi of Riva del Garda , Parco Lido (Trento, Italy) (<http://www.palacongressi.it>)

Further Information

<http://www.terecop.eu/TRTWR2012.htm>

