

Introduction

The 4th International Workshop “Teaching Robotics & Teaching with Robotics” (TRTWR) and the International Conference “Robotics in Education” (RiE) joined forces in 2014. The joint TRTWR & RiE 2014 event was held in Padova, Italy, July 18, 2014, hosted by the 13th International Conference on Intelligent Autonomous Systems <http://www.ias-13.org/>

TRTWR and RiE have a history of previous successful editions which witnesses the continuously growing interest in educational robotics in Europe and world-wide. The TRTWR workshop originated by the TERECOP project (www.terecop.eu) in [Venice \(2008\)](#) and grew up in [Darmstadt \(2010\)](#) and in [Riva del Garda \(2012\)](#). RiE conference counts so far 4 editions: in [Bratislava \(2010\)](#), [Vienna \(2011\)](#), [Prague \(2012\)](#) and [Łódź \(2013\)](#).

Several efforts and tools developed recently to integrate robotics in tertiary and school education, mainly in science and technology subjects, were presented in the workshop and are reported in the workshop proceedings. The papers present results from robotics projects developed in primary and secondary classes, clubs, camps and competitions. Others examine robotics as a learning tool to support educational transformation, computational thinking, evolution of design ideas, creativity and innovation in education.

We really hope that the proceedings of this event, and the discussion held during the event as well, will contribute to the further development and advancement of the dialogue among the research community of educational robotics at European level.

The Chairs

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