Wednesday, September 30

09:00-09:20 Opening Session
- Welcome & Introduction
  Richard Balogh, Wilfried Lepuschitz, David Obdržálek – RiE 2020 Co-Chairs

09:20-10:45 Technical Session 1: Workshops, Curricula and Related Aspects #1
- Robotikum – Promoting STEM Education in Schools Using an Adaptive Learning Scenario (#7)
  Sabrina Zeaiter and Patrick Heinsch
- ROSSINI: RobOt kidS deSign thiNkling (#35)
  Simon Haller-Seeber, Philipp Zech, Erwan Renaudo, Florian Westreicher, Stefan Strappler, Markus Walzthöni, Cornelia Vidovic and Justus Piater
- Using Robots for Digital Storytelling. Teaching Human Rights for Primary School Students (#8)
  Janika Leoste, Luis Pastor, José San Martín López, Carlos Garre, Paul Seitlinger, Pilar Martinho and Elena Peribañez
- Geriatronics - a student workshop on senior citizens, robotics and ethical issues (#23)
  Sabina Muminovic, Lisa Burr and Lorenz Kampschulte

10:45-11:15 Break

11:15-12:15 Technical Session 2: Programming Environments
- Physical Bits: A live programming environment for educational robotics (#20)
  Ricardo Moran, Matias Teragni and Gonzalo Zabala
- A Block–based IDE Extension for the ESP32 (#33)
  Patrick Lamprecht, Simon Haller-Seeber and Justus Piater
- Automatic assessment of programming solutions for educational robots Lego Mindstorms EV3 (#25)
  Liljana Pushkar and Ana Sovic Krzic
- The concept of using AR and VR technologies in the vocational training system in robotics and automation (#41)
  Piotr Falkowski, Zbigniew Pilat, Polyxeni Arapi, Mart Tamre, Peter Dulencin, Jozef Homza and Mikulas Hajdul

12:15-13:30 Lunch Break

13:30-15:00 Technical Session 3: Robotics Competitions
- Learning 21st century skills through educational robotics competitions - Selected results of an evaluation study of the World Robot Olympiad in Germany in 2019 (#6)
  Nicolia Pöhner, Martin Hennecke and Markus Fleige
- The European Robotics Hackathon (EnRich) - Fostering Robotic Solutions for the Radiological and Nuclear Application Domain (#15)
  Frank E. Schneider and Dennis Wildermuth
- Educational Contribution from Summer Robotic League (#34)
  Karolina Mayerova and Jakub Krcho
- Robotics competitions as an integral part of STEM education (#13)
  Eftychios Christoforou, Sotiris Avgousti, Panicos Masouras, Pericles Cheng and Andreas Panayides
Thursday, October 01

09:00-10:30 Technical Session 4: Workshops, Curricula and Related Aspects #2
- Keeping Students Engaged in Robotics Creations while Learning from the Experience (#47)
  Amy Eguchi
- “Parents and children together with robots”: The influence of parents-children co-education on technology on parents’ technological competence (#40)
  Nikolaos Fachantidis and Christina Lousta
- Teaching daily life skills in Autism Spectrum Disorder (ASD) interventions using the social robot Pepper (#16)
  Rafael Efstratiou, Charalampos Karatsioras, Maria Papadopoulou, Cristina Papadopoulou, Chris Lytridis, Christos Bazinas, George Papakostas and Vassilis Kaburlasos
- Synergy of Intelligent Algorithms for Efficient Child-Robot Interaction in Special Education: A Feasibility Study (#17)
  George Sidiropoulos, Christos Bazinas, Chris Lytridis, George Papakostas, Vassilis Kaburlasos, Petros Kechayas, Efi Kourampa, Sotirianna-Rafaela Katsi and Charalampos Karatsioras

10:30-11:00 Break

11:00-12:10 Technical Session 5: Technologies for Educational Robotics
- Maera: A Hybrid Wheeled-Legged Robot designed for Research and Education (#29)
  Ilias Zournatzis, Kostantinos Koutsoukis, Kostantinos Machairas, Andrés Kecskeméthy and Evangelos G. Papadopoulos
- Andruino-R2: Android and Arduino based Low-cost ROS-integrated Educational Robot from Scratch (#36)
  Francisco M. López-Rodríguez and Federico Cuesta
- An exploratory study about the NAVS robot emotional effect in educational contexts (#3)
  Edwin Alexander Valderrama Higuera and John Jairo Páez Rodríguez
- Easy Controlling a Robot Using Voice for Hobbyists (#42)
  Andrej Lucny

12:10-13:30 Lunch Break

13:30-15:00 Technical Session 6: Integrating Robotics with School Subjects
- Teachers' perceptions of Bee-Bot robotic toy and their ability to integrate it in their teaching (#28)
  Despoina Schina, Vanessa Esteve-Gonzalez and Mireia Usart
- Spike up Prime Interest in Physics (#51)
  Pavel Petrovič
- Mathematics through Educational Robotics in a first primary class: a comprehensive study (#50)
  Loredana Cacco, Michele Moro and Ambra Smerghetto
Friday, October 02

09:00-10:30 Technical Session 7: Workshops, Curricula and Related Aspects #3

- Compiling ROS Schooling Curricula via Contentual Taxonomies (#39)
  Alexander Ferrein, Marcus Meeßen, Nicolas Limpert and Stefan Schiffer
- Robot Security Education: Hands-on Lab Activities based Teaching Approach (#26)
  Zouheir Trabelsi and Fady Alnajjar
- Robotics and Vision Station for Education (#45)
  Felipe Hernandez-Rodriguez
- DOPPLER project: inspiring a new generation in STEM (#27)
  Antonio Batel Anjo, Soraia Amaro, Rui Bispo, Valério Ribeiro, Domingos Barbosa and Miguel Bergano

10:30-11:00 Break

11:00-12:15 Technical Session 8: Evaluating Educational Robotics

- Perspectives of Educational Robotics in the Ongoing Technological Transformations (#38)
  Anton Yudin and Andrey Vlasov
- Towards a conceptual and methodological framework for the evaluation of educational robotics activities (#48)
  Georg Jäggle, Wilfried Lepuschitz, Tanja Tomitsch, Peter Wachter and Markus Vincze
- Placemat Instructions for Open-Ended Robotics Challenges (#14)
  Sara Willner-Giwerc, Ethan Danahy and Chris Rogers

12:15-13:30 Lunch Break

13:30-14:45 Technical Session 9: Cross Topics

- The effectiveness of a robot animal as a virtual instructor (#12)
  Alexandra Sierra Rativa, Cindy Carolina Vasquez, Fernando Martinez, Wily Orejuela Ramirez, Marie Postma and Menno van Zaanen
- From diagram to breadboard: Limiting the gap and strengthening the understanding (#44)
  Bjarke Kristian Maigaard Kjær Pedersen, Jørgen Christian Larsen and Jacob Nielsen
- A robotic teacher community to foster the integration of educational robotics in school (#18)
  Lucio Negrini, Sophia Reyes Mury and Dio Moonnee
- MAKER DAYS for kids: Learnings from a Pop-up Makerspace (#37)
  Maria Grandl, Martin Ebner, Sandra Schön and Benedikt Brünner

14:45-15:00 Closing Session

- Résumé / Outlook on RiE 2021
  Richard Balogh, Wilfried Lepuschitz, David Obdržálek – RiE 2020 Co-Chairs

Information about presentations:

Time specifications of sessions are given in Central European Summer Time UTC +2

Regular paper presentations: 15-20 minutes plus 5 minutes Q&A
Short paper presentations: 7 minutes plus 3 minutes Q&A