

19th November 2019

17:30 – 18:30	Pre-registration & Welcome Cocktail (Faculty Club)
17:30 – 18:30	Poster set-up (Aula Magna Hall)

20th November 2019

08:00 – 18:45	Registration (Aula Magna “Guido Bossi”)
08:45 – 10:00	<p>08:45 – 09:20 Welcome speech</p> <ul style="list-style-type: none"> - Prof. Gian Luca Gregori – Rector of UNIVPM - Dr. Loretta Bravi – Councillor for education of Marche Region - Dr. Giovanni Biondi – President of INDIRE - Dr. Marco Ugo Filisetti – Director of the USR Marche <p>09:20 – 09:35 Opening speech Eng. Lorenzo Guasti (INDIRE) “Maker@School”</p> <p>09:35 – 10:00 Keynote speech Prof. Paulo Blikstein (Teachers College, Columbia University) <i>“Reinventing education: If we could start from scratch, how schools would look like in the 21st century?”</i></p>
10:00 – 10:30	Coffee break (Room “Sala studio” quote/quota (q.) 150)
10:30 – 12:30	<p>TRACK A1: Maker Spaces and Fablabs at school: a maker approach to teaching and learning (Room q. 160/1)</p> <p>Chairs: Giovanni Nulli (INDIRE), Tamar Fuhrmann (Teachers College, Columbia University) and Lorenzo Guasti (INDIRE)</p> <ol style="list-style-type: none"> 1. Keynote: Giovanni Nulli <i>“School Makerspace Manifesto”</i> 2. Meltem Eti Proto and Ceren Koc Saglam <i>“Furniture Design Education with 3DPrint Technology”</i> 3. Giuseppe Alberghina <i>“Makerspaces for innovation in teaching practices”</i>

4. Tiziano Fattizzo and Pierfrancesco Vania
"Montessori creativity space: how to give a physical space to creativity"
5. Sofia Scataglini and Daniele Busciantella Ricci
"Fab the knowledge"
6. Track Round Table

TRACK B1: Curricular and not curricular robotics in formal, non-formal and informal education (Room q. 160/3)

Chairs: Linda Daniela (University of Latvia), Beatrice Miotti (INDIRE)

1. **Keynote: Linda Daniela**
"Pedagogical considerations for technology enhanced learning"
2. Dave Catlin
"Classroom Maker Projects and User Bots"
3. Laura Screpanti, Lorenzo Cesaretti, Michele Storti and David Scaradozzi
"Educational Robotics and social relationships in the classroom"
4. Lorenzo Cesaretti, Laura Screpanti, David Scaradozzi and Eleni Mangina
"Analysis of Educational Robotics activities using a machine learning approach"
5. Arta Rudolfa and Linda Daniela
"Learning platforms in the context of education digitization as strong innovative character with respect to education methodologies applied - Experience of Latvia"
6. Track Round Table

TRACK C1: How innovative spaces and learning environment condition the transformation of teaching: good practices and pilot projects (Room q. 160/2)

Chairs: Samuele Borri (INDIRE) and Gianluigi Mondaini (Università Politecnica delle Marche)

1. **Keynote: Samuele Borri**
"Learning Spaces: 1+4 Learning Spaces for a new generation of schools in Italy"

	<ol style="list-style-type: none"> 2. Lino Cabras and Fabrizio Pusceddu <i>"UP School: motion, perception, learning"</i> 3. Massimo Faiferri and Samanta Bartocci <i>"Landscapes of knowledge and innovative learning experiences"</i> 4. Marco d'Annunziis and Sara Cipolletti <i>"Child Friendly Architectures. Design spaces for children and adolescents"</i> 5. Anna Celeste Rubino <i>"Multipurpose learning environments for a flexible didactic"</i> 6. Gianluigi Mondaini and Marco Rosciani <i>"Adaptive environments. New spaces for learning"</i> 7. Massimo Ferrari and Claudia Tinazzi <i>"Imagining the School of the future"</i> 8. Keynote: Kasper Kjeldgaard Stoltz <i>"The maker process as design tool for learning spaces and school architecture"</i> 	
12:30 – 14:15	Lunch (Room "Sala studio" q. 150)	Poster session (Aula Magna Hall)
14:15 – 16:15 Short-papers session	TRACK A2: Laboratory Teaching with the makers approach: models, methods and instruments (Room q. 160/1) Chairs: Domenico Aprile (Liceo Scientifico Fermi Monticelli – Brindisi), Margherita Di Stasio (INDIRE) <ol style="list-style-type: none"> 1. Keynote: Domenico Aprile <i>"Maker in education: teaching is a hacking stuff"</i> 2. Valentina Costa and Floriana Falcinelli <i>"The Maker Movement: from the development of theoretical reference framework to the experience of DENSA Coop. Soc"</i> 3. Elena Parodi, Emanuele Micheli and Laura Iozzi <i>"Touch – Arte da toccare: a cultural project of social inclusion, between school, museum and 3d printing lab"</i> 4. Agnese Addone and Luigi De Bernardis <i>"Chesscards: Making a Paper Chess Game with Primary School Students, a Cooperative Approach"</i> 5. Laura Giraldi, Mirko Burberi, Francesca Morelli, Marta Maini and Lorenzo Guasti 	

	<p><i>"New graphic user interface design for children 3D modelling software"</i></p> <p>6. Track Round Table</p> <p>TRACK B1: Curricular and not curricular robotics in formal, non-formal and informal education (Room q. 160/3)</p> <p>Chairs: David Scaradozzi (Università Politecnica delle Marche), Laura Screpanti (Università Politecnica delle Marche)</p> <ol style="list-style-type: none"> Elena Liliana Vitti, Alberto Parola, Margherita Maria Sacco and Ilio Trafeli <i>"Learning technologies for curricular STEAM skills"</i> Lina Cannone <i>"Educational robotics in informal contexts: An experience at CoderDojo Pomezia"</i> Luca Iocchi, Jeffrey Too Chuan Tan and Sebastian Castro <i>"RoboCup@Home Education: a new format for educational competitions"</i> Giovanni Di Dio Bruno <i>"Erwhi Hedgehog: a new learning platform for mobile robotics"</i> Daniela Bagattini, Beatrice Miotti and Fiorella Operto <i>"Educational robotics and gender perspective"</i> Track Round Table 	
<p>14:30 – 16:30</p> <p>Event</p> <p>Aula Magna "Guido Bossi"</p>	<p>"Architecture, Form, Space, Construction"</p> <p>Introduction: Gianluigi Mondaini and Maddalena Ferretti</p> <p>With Kasper Kjeldgaard Stoltz, NERDArchitects, Copenhagen <i>"The maker process as design tool for learning spaces and school architecture"</i></p>	
<p>16:15 – 16:45</p>	<p>Coffee break (Room "Sala studio" q. 150)</p>	
<p>16:30 – 18:30</p> <p>Workshops session</p>	<p>Room "Cesmi 2" q. 155</p> <p>Co-m@king LAB - "hands-on-minds" programming and design laboratory</p> <p>by Domenico Aprile (Liceo)</p>	<p>Room "Cesmi 1" q. 155</p> <p>Coding and Educational Robotics: stereotypes and opportunities</p> <p>by Daniela Bagattini, Beatrice Miotti</p>

	Scientifico Fermi Monticelli – Brindisi)	(INDIRE)
20:00	Social Dinner (Ristorante Giardino, Ancona)	

21st November 2019

08:30 – 18:45	Registration (Aula Magna “Guido Bossi”)
09:00 – 10:00	<p>09:00 – 09:10 Welcome speech Prof. David Scaradozzi (UNIVPM)</p> <p>Plenary session</p> <p>Aula Magna “Guido Bossi”</p> <p>09:10 – 09:35 Keynote speech Prof. Maria Ranieri (University of Florence) <i>“Making to Learn. Pedagogical implications of making in a digital binary world.”</i></p> <p>09:35 – 10:00 Keynote speech Dr. Fiorella Operto (Scuola di Robotica) <i>“Roboethics: for a Responsible Use of Robotics and Digital Systems.”</i></p>
10:00 – 10:30	Coffee break (Room “Sala studio” quote/quota (q.) 150)
10:30 – 12:50	<p>TRACK A2: Laboratory Teaching with the makers approach: models, methods and instruments (Room q. 160/1)</p> <p>Chairs: Luisa Zecca (Università degli Studi Milano-Bicocca), Jessica Niewint (INDIRE)</p> <ol style="list-style-type: none"> Keynote: Luisa Zecca <i>“The game of thinking: interactions between children and robots in educational environments”</i> Alessandra Carlini <i>“Museum education between digital technologies and unplugged processes. Some project experiences”</i> Sara Ricciardi, Stefano Rini and Fabrizio Villa <i>“Officina degli errori: an extended experiment to bring constructivist approaches to public schools in Bologna”</i> Danila Leonori and Irene Frazzarin <i>“Service Learning: a Maker approach proposal”</i>

5. Paola Mattioli
"Makerspaces to foster STEAM and reading"
6. Stefano Di Tore, Giuseppe De Simone and Michele Domenico Todino
"Learning by making: 3D printers Guidelines for teachers"
7. Track Round Table

TRACK B1: Curricular and not curricular robotics in formal, non-formal and informal education (Room q. 160/3)

Chairs: Giovanni Nulli (INDIRE), Lorenzo Cesaretti (Università Politecnica delle Marche)

1. Michele Domenico Todino, Giuseppe De Simone, Simon Kidiamboko and Stefano Di Tore
"European recommendations on robotics and their issues on education in different countries"
2. Rita Tregon and Mirko Labbri
"Growing deeper learners (How to assess robotics, coding, making and tinkering activities for significant learning)"
3. Matteo Torre
"Buzzati Robots"
4. Paola Pazzaglia and David Scaradozzi
"Escape from Tolentino during an earthquake saving more lives and cultural heritage objects as you can"
5. Mariantonietta Valzano, Cinzia Vergine, Lorenzo Cesaretti, Laura Screpanti and David Scaradozzi
"Ten years of Educational Robotics in Primary School"
6. Mauro Gagliardi and David Scaradozzi
"Nintendo Labo for Educational Robotics at the Primary School"
7. Track Round Table

TRACK B2: Educational technologies and assistive robotics (Room q. 160/2)

Chairs: Andrea Monteriù (Università Politecnica delle Marche), Daniele Costa (Università Politecnica delle Marche)

1. Maria Letizia Corradini, Gianluca Ippoliti, Giuseppe Orlando and Simone Terramani

	<p><i>“Study and development of robust control systems for educational drones”</i></p> <ol style="list-style-type: none"> Irene Marzoli, Nico Rizza, Alessandro Saltarelli and Euro Sampaolesi <i>“Arduino: from Physics to Robotics”</i> Michele Storti, Elisa Mazzieri and Lorenzo Cesaretti <i>“Weturtle.org: a web-community for teachers' training and resource sharing on educational technologies”</i> Marco Cantarini and Rita Polenta <i>“Good educational robotics practices in upper secondary school in European projects”</i> Alessandro Freddi, Catia Giaconi, Sabrina Iarlori, Sauro Longhi, Andrea Monteriù and Daniele Proietti Pagnotta <i>“Assistive Robot for Mobility Enhancement of Impaired Students towards a Barrier-free Education: a Proof of Concept”</i> Track Round Table 	
10:00 – 14:30	<p>Atelier informatico q. 150</p> <p>Lab: 3D printing @ Kindergarten with Kindergarten Istituto Comprensivo Solari (Loreto)</p>	
11:00 – 14:30	<p>Aula Magna Hall</p> <p>Lab: Tinkering @ Lunch with Primary School Istituto Comprensivo di Sigillo (Perugia)</p>	
13:00 – 15:00	<p>Lunch (Room “Sala studio” q. 150)</p>	<p>Poster session (Aula Magna Hall)</p>
15:00 – 18:00	<p>Room “Cesmi 2” q. 155</p> <p>Opening conference of RoboPisces Project (Erasmus+ KA201, coordinated by UNIVPM)</p> <p> Co-funded by the Erasmus+ Programme of the European Union</p> <ul style="list-style-type: none"> - 15:00 – 16:00: Opening conference and Project presentation - 16:00 – 16:30: Coffee Break (Room “Sala studio” q. 150) - 16:30 – 18:30: Workshop “RoboPisces: how to build and program educational marine robots with Lego Mindstorms EV3” by Lorenzo Cesaretti & Laura Screpanti, Università Politecnica delle Marche 	

22nd November 2019 - FabLearn Italy

08:30 – 10:30	Registration (Aula Magna “Guido Bossi”)	
09:00 – 10:30	Room q. 160/3 <i>Educational Robotics: modelling learning</i> by Laura Screpanti (Università Politecnica delle Marche)	Room “Cesmi 2” q. 155 <i>Robotics, a practical approach</i> by Leonardo Falanga (student at University of Salerno)
Workshops session		
10:30 – 11:00	Coffee break (Room “Sala studio” quote/quota (q.) 150)	
11:00 – 12:30	Room “Cesmi 2” q. 155 <i>Educational Robotics, problem-solving and creativity</i> by Lorenzo Cesaretti (Università Politecnica delle Marche)	
Workshops session		
12:30 – 12:45	Awards: Best Poster & Best Paper	
Aula Magna “Guido Bossi”		
12:45 – 13:00	Closing FabLearn Italy 2019	
Aula Magna “Guido Bossi”		

22nd November 2019 – Marche Drone-Week

09:00 – 09:30	Student’s Registration (Aula Magna “Guido Bossi”)
09:30 – 09:40	Welcome speech
Aula Magna “Guido Bossi”	

09:40 – 10:45 Aula Magna "Guido Bossi"	Scientific workshop: flying and navigating with intelligent autonomous systems: <ul style="list-style-type: none"> - Structure of an autonomous intelligent system - FPV Drone Racing
10:45 – 11:15	Groups creation
11:30 – 12:45	Activities in groups Pre-admission tests to UNIVPM Visit to laboratories
12:45	Students and teachers leaving OR Lunch at University Canteen
14:30 – 14:45	Groups creation
15:00 – 16:15	Visit to laboratories