



1 5 / 2 / 2 0 2 0

Open and Interdisciplinary
Journal of Technology,
Culture and Education

Special issue
From the Teaching machines
to the Machine learning.
Opportunities and challenges
for Artificial Intelligence
in education

Edited by
Valentina Grion
& *Graziano Cecchinato*

- Editor*
- M. Beatrice Ligorio** (University of Bari "Aldo Moro")
- Coeditors*
- Stefano Cacciامani** (University of Valle d'Aosta)
- Donatella Cesareni** (University of Rome "Sapienza")
- Valentina Grion** (University of Padua)
- Associate Editors*
- Carl Bereiter** (University of Toronto)
- Michael Cole** (University of San Diego)
- Kristine Lund** (CNRS)
- Roger Salijo** (University of Gothenburg)
- Marlene Scardamalia** (University of Toronto)
- Scientific Committee*
- Sanne Akkerman** (University of Utrecht)
- Ottavia Albanese** (University of Milan – Bicocca)
- Susanna Annese** (University of Bari "Aldo Moro")
- Alessandro Antonietti** (University of Milan – Cattolica)
- Pietro Boscolo** (University of Padua)
- Lorenzo Cantoni** (University of Lugano)
- Felice Carugati** (University of Bologna – Alma Mater)
- Cristiano Castelfranchi** (ISTC-CNR)
- Alberto Cattaneo** (SFIVET, Lugano)
- Graziano Cecchinato** (University of Padua)
- Carol Chan** (University of Hong Kong)
- Cesare Cornoldi** (University of Padua)
- Crina Damsa** (University of Oslo)
- Frank De Jong** (Aeres Wageningen Applied University, The Netherlands)
- Ola Erstad** (University of Oslo)
- Paolo Ferrari** (University of Milan – Bicocca)
- Alberto Fornasari** (University of Bari "Aldo Moro")
- Carlo Galimberti** (University of Milan – Cattolica)
- Begona Gros** (University of Barcelona)
- Kai Hakkarainen** (University of Helsinki)
- Vincent Hevern** (Le Moyne College)
- Jim Hewitt** (University of Toronto)
- Antonio Iannaccone** (University of Neuchâtel)
- Liisa Ilomaki** (University of Helsinki)
- Sanna Jarvela** (University of Oulu)
- Richard Joiner** (University of Bath)
- Kristina Kumpulainen** (University of Helsinki)
- Editorial Staff*
- Minna Lakkala** (University of Helsinki)
- Mary Lamon** (University of Toronto)
- Leila Lax** (University of Toronto)
- Marcia Linn** (University of Berkeley)
- Kristine Lund** (CNRS)
- Anne-Nelly Perret-Clermont** (University of Neuchâtel)
- Donatella Persico** (ITD-CNR, Genoa)
- Clotilde Pontecorvo** (University of Rome "Sapienza")
- Peter Renshaw** (University of Queensland)
- Nadia Sansone** (Unitelma Sapienza)
- Vittorio Scarano** (University of Salerno)
- Roger Schank** (Socratic Art)
- Neil Schwartz** (California State University of Chico)
- Pirita Seitamaa-Hakkarainen** (University of Joensuu)
- Patrizia Selleri** (University of Bologna)
- Robert-Jan Simons** (IVLOS, NL)
- Andrea Smorti** (University of Florence)
- Jean Underwood** (Nottingham Trent University)
- Jaan Valsiner** (University of Aalborg)
- Jan van Aalst** (University of Hong Kong)
- Rupert Wegerif** (University of Exeter)
- Allan Yuen** (University of Hong Kong)
- Cristina Zucchermaglio** (University of Rome "Sapienza")
- Web Responsabile*
- Nadia Sansone**



Publisher

Progedit, via De Cesare, 15
70122, Bari (Italy)
tel. 080.5230627
fax 080.5237648
info@progedit.com
www.progedit.com

qwerty.ckbg@gmail.com
www.ckbg.org/qwerty

Registrazione del Tribunale di Bari
n. 29 del 18/7/2005
© 2020 by Progedit
ISSN 2240-2950

Index

<i>Editorial</i>	5
Valentina Grion, Graziano Cecchinato	
 INVITED ARTICLE	
<i>Will knowledge building remain uniquely human?</i>	12
Marlene Scardamalia, Carl Bereiter	
 ARTICLES	
<i>Automatic feedback, self-regulated learning and social comparison: A case study</i>	27
Donatella Persico, Marcello Passarelli, Flavio Manganello, Francesca Pozzi, Francesca Maria Dagnino, Andrea Ceregini, Giovanni Caruso	
<i>Perusall: University learning-teaching innovation employing social annotation and machine learning</i>	45
Graziano Cecchinato, Laura Carlotta Foschi	
<i>Student teachers' pedagogical reasoning in TPCK-based design tasks. A multiple case study</i>	68
Ottavia Trevisan, Marina De Rossi	
<i>The role of the instructor and the tutor in the discursive interaction in a blended university course: A case analysis</i>	85
Vittore Perrucci, Ahmad Khanlari, Stefano Cacciamani	
<i>To assign or not to assign? Role taking in higher education</i>	105
Manuela Fabbri	

