

CALL FOR PAPERS

The 17th IEEE International Conference on Advanced Learning Technologies ICALT2017



Timișoara, Romania

July 3-7, 2017

<http://www.ieee-icalt.org>

Deadline: ~~January 20~~ **February 3 (extended), 2017**

A new wave of technologies is disrupting innovation in the education sector now more than ever before. Phenomena and technologies such as learning analytics, cloud computing, maker spaces, 3-D printing, wearable technologies, cognitive profiling and augmented reality are just a few examples that have seen early adopters bringing new hope and optimism to the debate about the usefulness and relevance of new technologies and learning support. At the same time, new standards are also emerging with the intention of bringing these innovations to a level where they are widely accepted and sustainable. Such rapid growth of the field is not without mixed blessings, as it changes the ways that people access, design, deploy and support learning, posing challenges for educational organisations, researchers, practitioners and policy makers, especially with regard to the development of advanced technologies that accommodate the needs of a new generation of learners and a changing social environment. The choice of appropriate technologies and their application in emerging learning contexts are huge challenges for 21st century learning technologists.

ICALT is an annual international conference on Advanced Learning Technologies and Technology-enhanced Learning organized by the IEEE Computer Society and the IEEE Technical Committee on Learning Technology. After its kick-off as IWALT in Palmerston North, New Zealand (2000), ICALT has been held in Madison, USA (2001), Kazan, Russia (2002), Athens, Greece (2003), Joensuu, Finland (2004), Kaohsiung, Taiwan (2005), Kerkade, The Netherlands (2006), Niigata, Japan (2007), Santander, Spain (2008), Riga, Latvia (2009), Sousse, Tunisia (2010), Athens, Georgia, USA (2011), Rome, Italy (2012), Beijing, China (2013), Athens, Greece (2014), Hualien, Taiwan (2015) and Austin, Texas, USA (2016).

The **17th IEEE International Conference on Advanced Learning Technologies (ICALT2017)** will be hosted by Politehnica University of Timișoara, Romania. ICALT2017 is built around the following tracks that target the key areas of research in Learning Technologies, namely:

- [Track 1. Technologies for Open Learning and Education \(i-OPENLearn@ICALT2017\)](#)
- [Track 2. Adaptive and Personalised Technology-Enhanced Learning \(APTel@ICALT2017\)](#)

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- [Track 3. Wireless, Mobile, Pervasive and Ubiquitous Technologies for Learning \(WMUTE@ICALT2017\)](#)
- [Track 4. Digital Game and Intelligent Toy Enhanced Learning \(DIGITEL@ICALT2017\)](#)
- [Track 5. Computer Supported Collaborative Learning \(CSCL@ICALT2017\)](#)
- [Track 6. Technology-enhanced Assessment in Formal and Informal Education \(TeASSESS@ICALT2017\)](#)
- [Track 7. Big Data in Education and Learning Analytics \(BDELA@ICALT2017\)](#)
- [Track 8. Technology-Enhanced Science, Technology, Engineering and Math Education \(TeSTEM@ICALT2017\)](#)
- [Track 9. Technology Enhanced Language Learning \(TELL@ICALT2017\)](#)
- [Track 10. Motivational and Affective Aspects in Technology-enhanced Learning \(MA-TEL@ICALT2017\)](#)
- [Track 11. Technology Enabled Learning of Thinking Skills \(TELoTS@ICALT2017\)](#)
- [Track 12. Recommender and Decision Support Systems for Learning \(ReSyL@ICALT2017\)](#)
- [Track 13. Technology Supported Education for People with Disabilities \(TeDISABLE@ICALT2017\)](#)
- [Track 14. Artificial Intelligence and Smart Learning Environments \(AISLE@ICALT2017\)](#)
- [Track 15. Augmented Reality and Virtual Worlds in Education and Training \(VWET@ICALT2017\)](#)
- [Track 16. Maker Spaces and 3-D Printing Based Innovations in Learning \(Make&3DPrint@ICALT2017\)](#)
- [Track 17. Applications of Semantic Web technologies for Learning \(SW-EL@ICALT2017\)](#)
- [Track 18. Affective Computing in Learning \(AffectLearn@ICALT2017\)](#)

ICALT2017 KEYNOTE SPEAKERS

-Will be announced soon-

IMPORTANT DATES

~~January 20~~ **February 3 (extended), 2017**: Submissions of papers (Full paper, Short paper, Poster)

March 15, 2017: Authors' Notification on the review process results

May 2, 2017: Authors' Registration Deadline

May 2, 2017: Final Camera-Ready Manuscript and IEEE Copyright Form submission

May 16, 2017: Early Bird Registration

July 3-7, 2017: ICALT2017 Conference

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SUBMISSIONS

We invite submission of papers reporting original academic or industrial research in the area of on *Advanced Learning Technologies* and *Technology-enhanced Learning*. All papers will be double-blindly peer-reviewed. Complete papers are required to be reviewed. The expected types of submissions include:

The anticipated types of submissions for all tracks are:

- **Full paper:** 5 pages
- **Short paper:** 3 pages
- **Posters:** 2 pages

Please submit your manuscript using the EasyChair Conference System at: <https://easychair.org/conferences/?conf=icalt2017>

If you have any problems with the above web submission form, you can contact ICALT 2017 Office at: icalt2017@cm.upt.ro (Subject: ICALT2017 Submission Enquiry) and the Chairs will contact you for further assistance.

CONFERENCE ORGANIZATION

Hosted by
Politehnica University of Timișoara, Romania

Organized by
The IEEE Computer Society
The IEEE Technical Committee on Learning Technology

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- Politehnica University of Timișoara, Romania
- eLearning Center, Politehnica University of Timișoara, Romania

CONTACT INFORMATION

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- Sponsorship Inquiries: icalt2017@cm.upt.ro

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- Renate Simion, Politehnica University of Timisoara

Track Program Chairs (* Invited)

Track 1. Technologies for Open Learning and Education (i-OPENLearn@ICALT2017)

Diana Andone, Politehnica University of Timisoara, Romania [**Co-ordinator**]

Vanessa Chang, Curtin University, Australia

Paloma Diaz, Carlos III University of Madrid, Spain

Martin Ebner, Graz University of Technology, Austria

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Vincent Wai-Leuk Tam, University of Hong Kong, Hong Kong

Track 2. Adaptive and Personalised Technology-Enhanced Learning (APTeL@ICALT2017)

Elvira Popescu, University of Craiova, Romania [**Co-ordinator**]

Yacine Atif, University of Skovde, Sweden

Sabine Graf, Athabasca University, Canada

Sharon I-Han Hsiao, Arizona State University, USA

Kyparisia Papanikolaou, School of Pedagogical & Technological Education, Greece

Track 3. Wireless, Mobile, Pervasive and Ubiquitous Technologies for Learning (WMUTE@ICALT2017)

Ulrike Lucke, University of Potsdam, Germany [**Co-ordinator**]

Gwo-Jen Hwang, National Taiwan University of Science and Technology, Taiwan

Eric Klopfer, Massachusetts Institute of Technology, USA

Marcelo Milrad, Linnaeus University, Sweden

Hiroaki Ogata, Kyushu University, Japan

Marcus Specht, Open University, The Netherlands

Track 4. Digital Game and Intelligent Toy Enhanced Learning (DIGITEL@ICALT2017)

Maiga Chang, Athabasca University, Canada [Co-ordinator]

Baltasar Fernández-Manjón, Complutense University of Madrid, Spain

Ju-Ling Shih, National University of Tainan, Taiwan

Seng Yue Wong, Taylor's University, Malaysia

Track 5. Computer Supported Collaborative Learning (CSCL@ICALT2017)

Stavros Demetriadis, Aristotle University of Thessaloniki, Greece [Co-ordinator]

Andreas Harrer, Dortmund University of Applied Sciences and Arts, Germany

Andreas Lingnau, Humboldt-Universität zu Berlin, Germany

Yannis Dimitriadis, University of Valladolid, Spain

Lanqin Zheng, Beijing Normal University, China

Track 6. Technology-enhanced Assessment in Formal and Informal Education (TeASSESS@ICALT2017)

Dirk Ifenthaler, University of Mannheim, Germany [Co-ordinator]

David Gibson, Curtin University, Australia

Cher Ping Lim, The Hong Kong Institute of Education, Hong Kong

Mary Webb, King's College London, UK

Track 7. Big Data in Education and Learning Analytics (BDELA@ICALT2017)

Vive Kumar, Athabasca University, Canada [Co-ordinator]

Phillip Dawson, Deakin University, Australia

Michail Giannakos, Norwegian University of Science and Technology, Norway

Abelardo Pardo, The University of Sydney, Australia

Xiao Hu, The University of Honk Kong, Hong Kong

Track 8. Technology-Enhanced Science, Technology, Engineering and Math Education (TeSTEM@ICALT2017)

Tzu-Chien Liu, National Taiwan Normal University, Taiwan [Co-ordinator]

Jack Hsu, National Pingtung University of Science and Technology, Taiwan

Ying-Tien Wu, National Central University, Taiwan

Chin-Chung Tsai, National Taiwan University of Science & Technology, Taiwan

Maggie M. Wang, The University of Hong Kong, Hong Kong

Track 9. Technology Enhanced Language Learning (TELL@ICALT2017)

Yu-Ju Lan, National Taiwan Normal University, Taiwan [Co-ordinator]

Adèle Botha, CSIR Meraka Institute, South Africa

Ching Sing Chai, National Institute of Education, Singapore

Scott Crossley, Georgia State University, USA

Meei-Ling Liaw, National Taichung University of Education, Taiwan

Mathias Schulze, University of Waterloo, Canada

Rustam Shadiev, National Cheng Kung University, Taiwan

Yuping Wang, Griffith University, Australia

De Bao Xu, University of Macau, Macau

Jie-Chi Yang, National Central University, Taiwan

Track 10. Motivational and Affective Aspects in Technology-enhanced Learning (MA-TEL@ICALT2017)

Meng-Jung Tsai, National Taiwan University of Science and Technology, Taiwan [Co-ordinator]

Arif Altun, Hacettepe University, Turkey

Charles Hodges, Georgia Southern University, USA

Hao-Chiang Koong Lin, National University of Tainan, Taiwan

Lin Lin, University of North Texas, USA

Ramón Zatarain Cabada, Culiacán Institute of Technology, Mexico

Track 11. Technology Enabled Learning of Thinking Skills (TELoTS@ICALT2017)

Sridhar Iyer, Indian Institute of Technology Bombay, India [Co-ordinator]

Chandan Dasgupta, Purdue University, USA

Sahana Murthy, IIT Bombay, India

Amali Weerasinghe, University of Adelaide, Australia

Track 12. Recommender and Decision Support Systems for Learning (ReSyL@ICALT2017)

Yanyan Li, Beijing Normal University, China [Co-ordinator]

Ting-Wen Chang, Beijing Normal University, China

Hendrik Drachsler, Open University of Netherlands, The Netherlands

Fanny Klett, German Workforce ADL Partnership Laboratory, Germany

Demetrios G. Sampson, Curtin University, Australia

Olga C. Santos, Spanish National University for Distance Education, Spain

Track 13. Technology Supported Education for People with Disabilities (TeDISABLE@ICALT2017)

Charalampos Karagiannidis, University of Thessaly, Greece [Co-ordinator]

Fahriye Altinay, Near East University, Cyprus

Silvia Baldiris, University of Girona, Spain

Mohamed Jemni, University of Tunis, Tunisia

Track 14. Artificial Intelligence and Smart Learning Environments (AISLE@ICALT2017)

Kinshuk, University of North Texas, USA [Co-ordinator]

Nian-Shing Chen, National Sun Yat-sen University, Taiwan

Ronghuai Huang, Beijing Normal University, China

Wu-Yuin Hwang, National Central University, Taiwan

Alke Martens, University of Rostock, Germany

Track 15. Augmented Reality and Virtual Worlds in Education and Training (VWET@ICALT2017)

Tassos A. Mikropoulos, University of Ioannina, Greece [Co-ordinator]

Ignacio Aedo, Universidad Carlos III de Madrid, Spain

Christian Gütl, Graz University of Technology, Austria

Morris S. Y. Jong, The Chinese University of Hong Kong, Hong Kong

Track 16. Maker Spaces and 3-D Printing Based Innovations in Learning (Make&3DPrint@ICALT2017)

Glen Bull, University of Virginia, USA [Co-ordinator]

Rachel Sheffield, Curtin University, Australia

David Slykhuys, James Madison University, USA

Tandra Tyler-Wood, University of North Texas, USA

Track 17. Applications of Semantic Web technologies for Learning (SW-EL@ICALT2017)

Francesco Orciuoli, University of Salerno, Italy [**Co-ordinator**]

Fernando Bobillo, Universidad de Zaragoza, Spain

Ig Ibert Bittencourt, Universidade Federal de Alagoas, Brazil

Giuseppe Fenza, Università degli Studi di Salerno, Italy

Jelena Jovanovic, University of Belgrade, Serbia

Sergio Miranda, Università degli Studi di Salerno, Italy

Track 18. Affective Computing in Learning (AffectLearn@ICALT2017)

Kostas Karpouzis, National Technical University of Athens, Greece [**Co-ordinator**]

Rilla Khaled, Concordia University, Canada

George Korres, NYU Abu Dhabi Multimedia and Visual Computing Lab, UAE

Manolis Mavrikis, University College London, UK

Ana Paiva, INESC-ID, Portugal

Georgios Yannakakis, University of Malta, Malta