

TEEM 2017 Preface

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TEEM 2017 Conference Chairs

Welcome to The Fifth International Conference on Technological Ecosystem for Enhancing Multiculturality, TEEM 2017

Four years ago, it started an amazing challenge in the Research Institute for Educational Sciences at the University of Salamanca (<http://iuce.usal.es/>) with the TEEM first edition [8; 26]. It meant a new way to organize an academic conference and, by the way, to maximize the creation of a research community around the Knowledge Society topic from an interdisciplinary perspective [17] and in which the PhD students might have a good opportunity to network with other peers and to be in contact with consolidated researchers all around the world [7; 15; 16].

The first edition was very successful, with 83 full papers accepted and published in the ACM proceedings, which are indexed in the Web of Science and Scopus, and several special issues published in international and well-ranked journals [4-6; 9-13; 24; 32; 36].

The Second TEEM edition, TEEM 2014 [14], was held in Salamanca, Spain again. It meant the consolidation of the idea behind the conference. We grew in the number of submissions, 153, and we finally published 102 papers in the conference proceedings. Several special issues in international journals [23; 29; 34; 35; 37] were published too.

The Third TEEM edition in 2015 [2] was held in Porto, Portugal, being the first edition that was organized out of the University of Salamanca, starting the series of one year out of the Salamanca scope one year in Salamanca. It was very significant for the maturity of the conference. 90 full papers were accepted to be published in the proceedings and several special issues have been organized [1; 28; 30; 38].

The TEEM 2016 [21] returned to the University of Salamanca and received an amazing response of the researching community, with 235 submissions, of which 165 have been accepted as full papers.

The TEEM 2017 (<https://2017.teemconference.eu/>) has moved to the University of Cádiz. We have received 109 submissions, of which 84 have been accepted as full papers that are available in these proceedings. It means a 23% rejection ratio. All of the submitted papers were, at least, double blind reviewed. These papers have been organized in 11 thematic tracks:

- Track 1. Computational thinking issues
- Track 2. 21st Century Challenges in Engineering and Technological Learning
- Track 3. Educational Assessment & Evaluation in Digital Society
- Track 4. New publishing and scientific communication ways: Electronic edition, digital educational resources
- Track 5. Learning analytics: Expanding the frontier
- Track 6. Technology, Health Sciences Education and Health
- Track 7. A world of digital competences: mobile apps, e-citizenship and computational systems as learning tools
- Track 8. Educational innovation

- Track 9. New trends in Digital Humanities
- Track 10. 8th International Workshop on Software Engineering for E-learning (ISELEAR'17)
- Track 11. Doctoral Consortium

With regard to the TEEM 2017 conference participants, 346 authors and co-authors distributed by 18 countries are presented in the proceedings. Besides, the International Program Committee has been formed by 134 members distributed by 24 countries.

In addition, this year the conference also serves as host for several activities apart of the parallel sessions to present the papers submitted to the conference. First of all, TEEM this year supports activities and dissemination events carried out by SNOLA (Spanish Network of Learning Analytics) [3]. This thematic research network, funded and supported by the Spanish Ministry of Economy and Competitiveness TIN2015-71669-REDT, organizes a special session during the conference to gather experiences in developing research networks in both Spain and international contexts. These experiences are going to be shared by three recognized international speakers invited by the conference and the different attendees to the conference that have participated in research networks and research associations in previous years and funding calls.

The TEEM Conference hosts the workshop “Improving Financial culture through a Banking platform”, where researchers from different countries and research areas try to collaborate and discuss about the use of ICT tools to improve financial culture of EU citizens, proposing an implementation of a Bank open platform that can be used as a teaching-learning tool in didactic environments. This workshop is carried out as a part of a Jean Monnet Project (ref. 587661-EPP-1-2017-1-ES-EPPJMO-PROJECT) funded by the Erasmus+ programme of the European Union.

Also, the TEEM Conference hosts a special session for the dissemination of the first results of the *Emphasys* project, which aims at the design, development and prototyping of an individualized and customized health care system oriented to prevention, pre-assistance and self-management of health. This project is funded by the Spanish Ministry of Economy and Competitiveness (grant ref. RTC-2016-5095-1) through the National Agency of Innovation and by the EU through the European Regional Development Fund, with the thematic goal of “Promoting technological development, innovation and quality research”.

I would like to thank the members of the Steering Committee for their counsel, the International Program Committee for their accurate and timely reviewing. I would also like to thank the Track Chairs for their efforts in organizing the academic issues related to each track, and the Organizing Committee for their huge effort in all the associated tasks that an international conference involves. I would like to do a special mention for the Editors-in-Chief of the linked journals that have offered special issues or slots in their regular issues for those selected and extended papers of TEEM 2017 conference that will have another in-depth review following the guidelines of each journal. Last, but not least, I would like to thank the participating organizations: The University of Cádiz research groups SPI-FM and EVALfor, the University of Salamanca GRIAL Research Group [19; 31]; and ACM for its support.

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TEEM Conference Chairs

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