

**Education and New Developments**  
**2019**

**Volume II**

**Edited by**  
**Mafalda Carmo**

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## FOREWORD

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This book contains the full text of papers and posters presented at the International Conference on Education and New Developments (END 2019), organized by the World Institute for Advanced Research and Science (WIARS).

Education, in our contemporary world, is a right since we are born. Every experience has a formative effect on the constitution of the human being, in the way one thinks, feels and acts. One of the most important contributions resides in what and how we learn through the improvement of educational processes, both in formal and informal settings. The International Conference seeks to provide some answers and explore the processes, actions, challenges and outcomes of learning, teaching and human development. The goal is to offer a worldwide connection between teachers, students, researchers and lecturers, from a wide range of academic fields, interested in exploring and giving their contribution in educational issues. We take pride in having been able to connect and bring together academics, scholars, practitioners and others interested in a field that is fertile in new perspectives, ideas and knowledge.

We counted on an extensive variety of contributors and presenters, which can supplement our view of the human essence and behavior, showing the impact of their different personal, academic and cultural experiences. This is, certainly, one of the reasons we have many nationalities and cultures represented, inspiring multi-disciplinary collaborative links, fomenting intellectual encounter and development.

END 2019 received 547 submissions, from more than 50 different countries, reviewed by a double-blind process. Submissions were prepared to take form of Oral Presentations, Posters, Virtual Presentations and Workshops. The conference accepted for presentation 135 submissions (25% acceptance rate), from which, 114 submissions are published in full text in these volumes. The conference also includes a keynote presentation from an internationally distinguished researcher, Prof. Dr. Denise Whitelock, Professor of Technology Enhanced Assessment and Learning, Institute of Educational Technology, The Open University, UK, to whom we express our most gratitude.

This conference addressed different categories inside the Education area and papers are expected to fit broadly into one of the named themes and sub-themes. To develop the conference program, we have chosen four main broad-ranging categories, which also covers different interest areas:

- In **TEACHERS AND STUDENTS**: Teachers and Staff training and education; Educational quality and standards; *Curriculum* and Pedagogy; Vocational education and Counseling; Ubiquitous and lifelong learning; Training programs and professional guidance; Teaching and learning relationship; Student affairs (learning, experiences and diversity; Extra-curricular activities; Assessment and measurements in Education.
- In **PROJECTS AND TRENDS**: Pedagogic innovations; Challenges and transformations in Education; Technology in teaching and learning; Distance Education and eLearning; Global and sustainable developments for Education; New learning and teaching models; Multicultural and (inter)cultural communications; Inclusive and Special Education; Rural and indigenous Education; Educational projects.
- In **TEACHING AND LEARNING**: Critical Thinking; Educational foundations; Research and development methodologies; Early childhood and Primary Education; Secondary Education; Higher Education; Science and technology Education; Literacy, languages and Linguistics (TESL/TEFL); Health Education; Religious Education; Sports Education.
- In **ORGANIZATIONAL ISSUES**: Educational policy and leadership; Human Resources development; Educational environment; Business, Administration, and Management in Education; Economics in Education; Institutional accreditations and rankings; International Education and Exchange programs; Equity, social justice and social change; Ethics and values; Organizational learning and change, Corporate Education.

This is the Volume II of the book *Education and New Developments 2019* and it contains the results of the research and developments conducted by authors who focused on what they are passionate about: to promote growth in research methods intimately related to teaching, learning and applications in Education nowadays. It includes an extensive variety of contributors and presenters, who will extend our view in exploring and giving their contribution in educational issues, by sharing with us their different personal, academic and cultural experiences.

This second volume focus in the main areas of TEACHING AND LEARNING and ORGANIZATIONAL ISSUES.

We would like to express thanks to all the authors and participants, the members of the academic scientific committee, and of course, to our organizing and administration team for making and putting this conference together.

Hoping to continue the collaboration in the future.

Respectfully,

Mafalda Carmo  
World Institute for Advanced Research and Science (WIARS), Portugal  
*Conference and Program Chair*

Porto, Portugal, 22 - 24 June, 2019

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## KEYNOTE LECTURE

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### ASSESSMENT FOR LEARNING: WHERE ARE WE ON THE DIGITAL ASSESSMENT SPECTRUM?

**Prof. Dr. Denise Whitelock**

*(B.Sc. M.Ed Ph.D)*

*Professor of Technology Enhanced Assessment and Learning, Institute of Educational Technology,  
The Open University (United Kingdom)*

#### Abstract

Digital assessment is an evolving construct used in education to enrich, inform and complement the teaching process. Using automatic feedback however has been under-utilised and under-valued throughout the assessment process. This presentation will take you through a number of projects which have automated some aspects of assessment.

Those selected from my own research have a strong conceptual underpinning, for instance Dweck's work to develop Open Comment which provided feedback to Arts students. With Open Mentor, I used Bale's work on interactive categories to help tutors develop effective and supportive feedback. SafeSea, on the other hand, allows students to trial essay writing before taking the sometimes daunting step of submitting their first essay, using analysis based on Pask's conversational framework.

This presentation will discuss the issues raised by teachers and students in this arena. It will provide examples of how their concerns are currently being addressed by both researchers and software developers in order to support educator feedback to students. Finally, the issue of potential disruptors will be raised which moves us into the realm of crystal ball gazing.

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#### Biography

Professor Denise Whitelock has over twenty years experience in designing, researching and evaluating online and computer-based learning in Higher Education. She is a Professor of Technology Enhanced Assessment and Learning in the Open University's Institute of Educational Technology. She is currently leading the UK's contribution to the Adaptive Trust e-Assessment System for Learning (TeSLA) <http://tesla-project.eu/project>. She has just completed directing the CODUR [http://in3.uoc.edu/opencms\\_in3/opencms/webs/projectes/codur/en/index.html](http://in3.uoc.edu/opencms_in3/opencms/webs/projectes/codur/en/index.html) and SAFeSEA <http://www.open.ac.uk/researchprojects/safesea/projects>. The aim of this latter research was to provide an effective automated interactive feedback system that yields an acceptable level of support for university students writing essays in a distance or e-learning context. Her work has received international recognition as she holds visiting chairs at the Autònoma University, Barcelona and the British University in Dubai.

Website: <https://iet.open.ac.uk/profiles/denise.whitelock>

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