The 20th International Conference on Applied Computing (AC 2023) was held in Madeira Island, Portugal, from 21 to 23 October 2023.

This conference was organized by the International Association for Development of the Information Society.

This event tried to address the foremost issues of concern within the applied computing area and related fields. This conference covered fundamentally technical aspects regarding the context of applied computing research. Its areas of interest were: Application Fields, Fundamental Concepts and Engineering, Performance, Communication and Usability and Hardware Scope.

The 2023 edition was published jointly with the 22nd International Conference on WWW/Internet (ICWI 2023) and received 143 submissions from more than 22 countries. Each submission was anonymously reviewed by an average of four independent reviewers, to ensure the final high standard of the accepted submissions. The final result was the approval of 24 full papers, which meant that the acceptance rate was 17%.

Extended versions of the best papers were selected to be published in:


Besides the papers’ presentations, the conferences included one keynote presentation by Professor Sean Siqueira, Department of Applied Informatics, Federal University of the State of Rio de Janeiro (UNIRIO), Brazil. It also featured two tutorials:

- “PRACTICAL DATA SCIENCE USING THE SHELL” by Andreas Schmidt, University of Applied Sciences Karlsruhe, Germany and Mohamad Anis Koubaa, Karlsruhe Institute of Technology, Karlsruhe, Germany;
- “HIGH-LEVEL INTERACTION DESIGN FOR AUTOMATED WEB GUI GENERATION” by Hermann Kaindl, TU Wien, Vienna, Austria.

Keynote Presentation:

“BACK TO THE DIFFERENCES: RETHINKING INFORMATION SEARCH (AND RECOMMENDATION) ON THE WEB”

by Professor Sean Siqueira, Department of Applied Informatics, Federal University of the State of Rio de Janeiro (UNIRIO), Brazil


Edited by Paula Miranda and Pedro Isaias
Program Committee Members:

Conference & Program Chair

Paula Miranda, Polytechnic Institute of Setubal, Portugal

Committee Members

Abbas Fadhil Aljuboori, University of Information Technology and Communications, Iraq
Anastasios Doulamis, National Technical University of Athens, Greece
Andreas Andreou, Cyprus University of Technology, Cyprus
Andrew Adamatzky, University of the West of England, United Kingdom
Antonio LaTorre, Universidad Politécnica de Madrid, Spain
Antonio Robles-Gómez, Spanish University for Distance Education, UNED, Spain
Carmen Carrion, University of Castilla-La Mancha, Spain
Carolina Yukari Veludo Watanabe, Federal University of Rondonia, Brazil
Cathal Gurrin, Dublin City University, Ireland
Cristiano Costa, Universidade do Vale do Rio dos Sinos (UNISINOS), Brazil
Dan Li, Eastern Washington University, USA
Dana Petcu, West University of Timisoara, Romania
Denis Gracanin, Virginia Tech, USA
Dessislava Vassileva, Sofia University St. Kliment Ohridski, Bulgaria
Dhiya Al-Jumeily OBE, Liverpool John Moores University, United Kingdom
Dorian Gorgan, Computer Science Department, Technical University, Romania
Efstratios Georgopoulos, Technical University of Kalamata, Greece
Francesca Lonetti, ISTI-CNR, Italy
Francesca Martelli, Istituto di Informatica e Telematica - CNR, Italy
Francisco José García-Peñalvo, University of Salamanca, Spain
Grigorios Beligiannis, University of Patras, Greece
Habib Zhu, Nipissing University, Canada
Holger Hofmann, Baden-Wuerttemberg Cooperative State University, Germany
Ivan Jelinek, Czech Technical University, Czech Republic
Joao Paulo Papa, São Paulo State University, Brazil
Jose Luis Vazquez-Poletti, Complutense University of Madrid, Spain
Jose Manuel Molina, Universidad Carlos III de Madrid, Spain
Juan J. Pardo, Universidad De Castilla-la-mancha, Spain
Kelton Costa, São Paulo State University, Brazil
Ken Barker, University of Calgary, Canada
Konstantinos Giotopoulos, University of Patras, Greece
Kuo-Chan Huang, National Taichung University of Education, Taiwan
Liz Bacon, University of Greenwich, United Kingdom
Luca Pardini, University of Pisa, Italy
Maiga Chang, Athabasca University, Canada
Manuel Castillo-Cara, Universidad Politécnica de Madrid, Spain
Manuel Gil Pérez, University of Murcia, Spain
Marcela Xavier Ribeiro, Federal University of São Carlos, Brazil
Marcos Quires, Federal University of Sao Paulo, Brazil
Marek Woda, Wroclaw University of Technology, Poland
Matthias Lange, Leibniz Institute of Plant Genetics and Crop Plant Research, Germany
Michael Hobbs, Deakin University, Australia
Michael N. Vrahatis, University of Patras, Greece
Minoru Uehara, Toyo University, Japan
Pablo Rabanal, Universidad Complutense de Madrid, Spain
Pedro Henrique Bugatti, Federal University of São Carlos, Brazil
Priscila Tiemi Maeda Saito, Federal University of São Carlos (UFSCar), Brazil
Renato Ishii, Federal University of Mato Grosso Do Sul, Brazil
Sharon Cox, Birmingham City University, United Kingdom
Sherri Weitl-Harms, Creighton University, USA
Stephane Maag, Telecom Sudparis, France
Sucheta Ghosh, HITS gGmbH, Germany
Tomasz Walkowiak, Wrocław University of Science and Technology, Poland
Vicente Gonzalez, Universidad Católica, Paraguay
Vincent Hilaire, UTBM, France
Vincenzo Deufemia, Università di Salerno, Italy
Walid Gaaloul, Institut Telecom, France
Witold Andrzejewski, Poznan University of Technology, Poland
Yousef Farhaoui, Moulay Ismail University, Morocco