



The 2<sup>nd</sup> edition of the International Conference on Big Data Analytics, Data Mining and Computational Intelligence (BigDaCI'17) (part of the IADIS Multi Conference on Computer Science and Information Systems 2017) was hosted in Lisbon, Portugal, during **21-23 July, 2017**.

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

The growth of data both structured and unstructured will present challenges as well as opportunities for industries and academia over the next few years. With the explosive growth of data volumes, it is essential that real-time information that is of use to the business can be extracted to deliver better insights to decision-makers, understand complex patterns etc. Computational Intelligence tools offer adaptive mechanisms that enable the understanding of data in complex and changing environments. The main building blocks of computational intelligence involve computational modelling of biological and natural intelligent systems, multi-agent systems, hybrid intelligent systems etc. The conference aimed to provide an opportunity for the researchers to meet and discuss the latest solutions, scientific results and methods in solving intriguing problems in the fields of Big Data Analytics, Intelligent Agents and Computational Intelligence. Submissions were accepted under the following topics: Big Data Algorithms and Architectures; Computational Intelligent Frameworks for Big Data Processing; Data Mining Topics and Applications; Big Data Applications and Multi-Agent Systems: Models, Architectures and Applications



The proceedings of the BigDaCI'17 were jointly published with the 11<sup>th</sup> International Conference on Computer Graphics, Visualization, Computer Vision and Image Processing 2017. These events received 213 submissions from more than 38 countries. Each submission was anonymously reviewed by an average of five independent reviewers, to ensure that accepted submissions were of a high standard. Consequently only 33 full papers were approved which represented an acceptance rate of 16%. A few more papers were accepted as short papers, reflection papers and posters.

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

- ❖ IADIS International Journal on Computer Science and Information Systems (ISSN: 1646-3692)



Besides the presentation of full papers, short papers, reflection papers and posters, these events also included two keynote presentations by Professor Nir Shavit, MIT (Massachusetts Institute of Technology, USA) and Dr. Dr. Norbert Streitz (Scientific Director, Smart Future Initiative, Germany).



**Keynote Presentation:**

**HIGH THROUGHPUT CONNECTOMICS: THE BUILDING OF A BRAINSCOPE**



by Professor Nir Shavit, MIT (Massachusetts Institute of Technology), USA



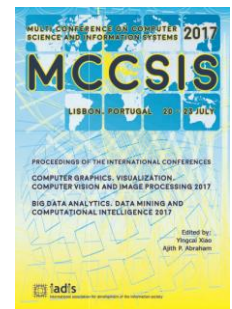
**Keynote Presentation:**

**RE-DEFINING THE “SMART EVERYTHING” PARADIGM TOWARDS RECONCILING HUMANS AND TECHNOLOGY**



by Dr. Dr. Norbert Streitz (Scientific Director), Smart Future Initiative, Germany

The BigDaCI'17 was published in hard copy (ISBN: 978-989-8533-66-1) by IADIS Press.



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