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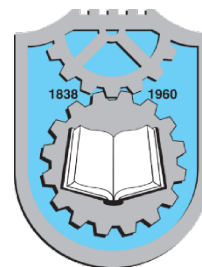
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IEEE Catalog Number: CFP15266-USB

ISBN: 978-1-4673-7982-3

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Welcome Message

Dear colleagues and students,

On behalf of the Organizing Committee, it is our great pleasure to invite you to the 15th International Conference on Bioinformatics and BioEngineering (IEEE BIBE 2015) which will take place in Belgrade, Serbia, on November 2nd-4th, 2015.

The IEEE International Conference on Bioinformatics & Bioengineering (BIBE) promotes complementary disciplines that hold great promise for the advancement of research and development in complex medical and biological systems, agriculture, environment, public health, drug design, and so on. The BIBE series provides a common platform for the cross fertilization of ideas and shaping knowledge and scientific achievements by bridging these two very important and complementary disciplines into an interactive and attractive forum. The main conference includes twenty three technical sections varying from biomechanics and bioimaging, biomedical decision support system, data mining, privacy, security, and personalized diagnostics, bio-signal processing, protein structure prediction, to tissue and cell engineering, biomedical image processing, analysis and visualization, high performance computing and sports bioengineering. In addition to the main conference, we also have three workshops dealing with the issues in the fields of computer modeling of the cochlea mechanics, computational chemistry and cell and tissue engineering, respectively. Also satellite event for abdominal aortic aneurysm rupture risk assessment is organized. For all workshops, the workshop chairs were fully in charge of their submission and control of the quality of the papers in the workshops. The conference is organized and sponsored by the Institute of Electrical and Electronic Engineers (IEEE) and Research and Development Center for Bioengineering BioIRC, Ministry of Education, Science and Technological Development of the Republic of Serbia, Faculty of Engineering of the University of Kragujevac, Serbia.

The 15th IEEE BIBE is a large international conference with 15 years of tradition and leading reputation. It follows previous successful conferences held in Washington DC, USA, in 2000, in Bethesda, USA, in 2001, in Bethesda, USA, 2003, in Taichung, Taiwan, in 2004, in Minneapolis, USA, in 2005, in Washington DC, USA, in 2006, in Boston, USA, in 2007, in Athens, Greece, in 2008, in Taichung, Taiwan, in 2009, in Philadelphia, USA, in 2010, in Taichung, Taiwan, in 2011, in Larnaca, Cyprus, in 2012, in Chania, Greece, in 2013, and in Boca Raton, Florida, USA in 2014. BIBE 2015 gathers eminent scientists and researchers, as well as students and representatives of companies, aiming to promote interdisciplinary and multidisciplinary approaches needed for solving complex problems, which requires expertise in the field of biomedical sciences and engineering.

This year, the 15th IEEE BIBE has received more than 180 high-quality research papers. Each paper was reviewed and ranked by at least 2 professors and scientists in the program and scientific review committee. As a result of the strict review process and evaluation, the committee selected 117 papers as full regular research papers. We are delighted to announce 12 world renowned scientists as IEEE BIBE 2015 Keynote Speakers:

Dr. Tim McGloughlin, *Chair, Biomedical Engineering, Khalifa University, Abu Dhabi, UAE*

Dr. Zoran Obradovic, *Laura H. Carnell Professor of Data Analytics, Data Analytics and Biomedical Informatics Center, Computer and Information Sciences, Department, Statistics Department Temple University, PA, USA*

Dr. Dimitrios I. Fotiadis, *Professor of Biomedical Engineering, Unit of Medical Technology and Intelligent Information Systems, Dept. of Materials Science and Engineering, University of Ioannina and Institute of Molecular Biology and Biotechnology, Dept. of Biomedical Research, Ioannina, Greece*

Dr. Veljko Milutinovic, *Department of Computer Engineering, School of Electrical Engineering, University of Belgrade, Belgrade, Serbia*

Dr. Zoran Ivanovic, *MD, DSc, HDR, Scientific Director of Aquitaine-Limousin Branch of French Blood Institute, Head of Cell Engineering Research Laboratory Aquitaine-Limousin Branch of French Blood Institute, Group Leader of "Adult stem cells" UMR 5164 CNRS/University Bordeaux, Bordeaux, France*

Dr. Valentin Djonov, *Head of Section for Topographic and Clinical Anatomy, Institute of Anatomy, University of Bern, Bern, Switzerland*

Dr. Chris Oostenbrink, *Head of Institute of Molecular Modeling and Simulation (MMS), University of Natural Resources and Life Sciences, Vienna, Austria*

Dr. Saso Dzeroski, *Scientific Councillor at Jozef Stefan Institute, Dept. of Knowledge Technologies, Professor at Jozef Stefan International Postgraduate School, Scientific Councillor at Centre of Excellence for Integrated Approaches in Chemistry and Biology of Proteins, Ljubljana, Slovenia*

Dr. Maria Giovanna Trivella, *CNR (Italian National Research Council), Clinical Physiology Institute (IFC), Senior Investigator, Head of Experimental Laboratory of Clinical Physiology Institute, Head of IFC-CNR Research Unit of Milano-Niguarda, Pisa, Italy*

Dr. David Vorp, *Associate Dean for Research, Swanson School of Engineering, University of Pittsburgh, USA*

Dr. Akira Tsuda, *Principal Research Scientist, Environmental Science and Psychology, Harvard School of Public Health, Boston, MA, USA*

Dr. Xingyu Jiang, *Principle Investigator in the National Center for NanoScience and Technology of China (NCNST), The University of Chinese Academy of Sciences, Beijing, China*

We must also say that the conference would certainly not have been so successful without the efforts of many people who were actively engaged in organization of such a major internationally recognized academic event. We give our special gratitude to the members of the program and scientific review committee as well as to all chairs, organizers and committee members for their dedication and support.

This year, BIBE Conference is held in Belgrade, Serbia, a city with rich cultural heritage and extensive and colourful history. We hope that you will find time to explore the city and experience its soul. Serbia already has a number of very good scientists in the area of bioengineering and bioinformatics and BIBE2015 is an excellent opportunity to introduce their research and scientific achievements in these challenging areas.

On behalf of the Organizing Committee, we wish you all a pleasant stay in Belgrade and a productive conference.

Dr. Nenad Filipović, Conference Program Chair