

Welcome to the 10th International Conference on Bio-inspired Information and Communications Technologies (BICT 2017). Consistent with the goal of prior editions, BICT 2017 aims to provide a multidisciplinary venue for researchers and practitioners in diverse disciplines that seek the understanding of key principles, processes and mechanisms in biological systems, and leverage those understandings to develop novel information and communications technologies (ICT). This year, BICT takes place in Hoboken, New Jersey in the United States with the sponsorships by European Alliance for Innovation (EAI).

BICT2017 delivers a high-quality technical program with 23 technical paper presentations. In addition to the main track targeting broad and mainstream research topics, BICT 2017 includes a keynote talk by Jane Hillston (University of Edinburgh, UK) and four invited talks by Hagsoon Yoon (Norfolk State University, USA), Samantha Kleinberg (Stevens Institute of Technology, USA), Narayan Ganesan and Vishakha Sharma (Georgetown University, USA). BICT 2017 also includes a co-hosted workshop on Logics for Unconventional Computing (LUC), organized by Andrew Schumann (University of Information Technology and Management in Rzeszow, Poland). We appreciate all the paper authors, speakers, TPC chairs [Aftab Ahmad (The City University of New York, USA), William Casey (Carnegie Mellon University, Software Engineering Institute, USA), Bilal Khan (University of Nebraska-Lincoln, USA)] and TPC members for maintaining the quality of the technical program.

Our congratulations go to Best Paper winners. The three papers have been selected as the Best Papers of BICT 2017: (1) “Evolutionary Pressures in Emerging Societies of Secondary Users in Cognitive Radio Networks” by Anna Wisniewska (City University of New York, USA), Bilal Khan (University of Nebraska-Lincoln, USA), Ala Al-Fuqaha (Western Michigan University, USA), Krik Dombrowski (University of Nebraska-Lincoln, USA) and Mohammad Abu Shattal (Western Michigan University, USA), (2) “A Cellular Model of Swarm Intelligence in Bees and Robots,” by Martina Szopek, Martin Stefanec, Michael Bodi, Gerald Radspieler and Thomas Schmickl (Karl-Franzens University Graz, Austria), and (3) “Hyperdimensional Computing for Noninvasive Brain-Computer Interfaces: Blind and One-Shot Classification of EEG Error-Related Potentials,” by Abbas Rahimi, Pentti Kanerva (UC Berkeley, USA), José del R. Millán (EPFL, Switzerland), and Jan M. Rabaey (UC Berkeley, USA).

The selection and organization of the BICT 2017 technical program relies on the contributions by Organizing Committee members as well as TPC members. It was our privilege to work with these respected colleagues. We here thank again all the organizing Committee members. Last but not least, special thanks go to EAI, particularly Sinziana Vieriu, for helping us organize BICT 2017.

General Chairs:

Adriana Compagnoni, Stevens Institute of Technology, USA

Tadashi Nakano, Osaka University, Japan