

## Preface

The special issue on Information Fusion contains a collection of extended papers selected from presentations on two scientific events organized by the FP7 project “Advanced Computing for Innovation” (AComIn), Grant Agreement 316087 of Call FP7 REGPOT-2012-2013-1.

The majority of papers were presented at the International Workshop on Information Fusion (IWIF’2015) that was held on 25 September 2015 in the Institute of Information and Communication Technologies at Bulgarian Academy of Sciences (IICT-BAS). The workshop was aimed at addressing new challenges, sharing solutions, and discussing future research directions in Information Fusion relating mainly signal processing applications. It was also organized to spread out the AComIn project results and to present the IICT-BAS excellence at regional, national and international levels by bringing together researchers from academia and industry.

The scientific program of the workshop consisted of four invited talks and 9 presentations given by researchers from IICT-BAS and from several Bulgarian universities.. The plenary invited talk was given by the President elect of the International Society of Information Fusion, Dr. Jean Dezert (ONERA, France) and the three invited talks – by Dr. Dimiter Prodanov (IMEC, Belgium), Prof. Prokopenko (National Aviation University, Ukraine), and Prof. Lukin (O. Ya. Usikov IRE, NAS of Ukraine).

The articles included in this issue concern data association (Dezert, Tchamova), radar technologies (Lukin, Prokopenko, Kudriashov, Lazarov), image analysis (Prodanov, Nikolov), signal estimation (Chyrka, Alexiev), neuro-fuzzy clustering (Koprinkova) and biometrics (Minchev).

The workshop paper selection was enriched by a paper on patient monitoring through smartphone sensors (Nikolovski, Lameski, Chorbev) presented on the

International Conference “Advanced Computing for Innovation” (ACOMIN’2015) that was held on 10-11 November 2015 in the Best Western Plus City Hotel, Sofia. The conference aimed at providing a forum for international scientific exchange between Central/Eastern Europe and the rest of the world in several fundamental for computational intelligence topics enabling radical progress and development of novel applications.

More than ten years have passed since the last event devoted on Information Fusion technologies was organized in Bulgaria – NATO Advanced Study Institute “Multisensor Data and Information Processing for Rapid and Robust Situation and Threat Assessment”. That is why, we are really happy to propose for the readers of Cybernetics and Information Technology journal this selected collection of papers reflecting state-of-the-art in this fast developing area of Information and Communication Technologies.

*Kiril Alexiev – IWIF Chair*  
*Gennady Agre – ACOMIN’2015 Local Organizing Committee Chair*