Workshop on Nonstationary Models of Pattern Recognition and Classifier Combinations

Michał Woźniak[1] and Bartosz Krawczyk[1]

Department of Systems and Computer Networks, Faculty of Electronics
Wrocław University of Science and Technology
e-mail: [michal.wozniak, bartosz.krawczyk]@pwr.edu.pl

The progress in information systems allowed many institutions to collected huge amounts of data, analysis of which is impossible by human beings. Nowadays simple methods of data mining are not sufficient for efficient management of an average enterprise, since for smart decisions the knowledge hidden in data is highly required. Additionally, the canonical algorithms assume that statistical properties of the discovered concept are being unchanged, which can be seen as their major limitation. Therefore designing data mining methods, especially classification ones for data streams with the presence of so-called *concept drift* is currently the focus of intense research. On the other hand we can usually use a number of varied classifiers for each of pattern recognition tasks. Therefore developing classifier ensembles has been mentioned as ones of the most promising trends in the contemporary pattern recognition which can exploit unique elementary classifier strengths and could adapt to the changes of classification models.

Workshop Non-stationary Models of Pattern Recognition and Classifier Combinations aims to bring together researches and to provide an international forum for sharing, exchange, presentation and discussion of original research results in both methodological issues and different application areas of computational aspects of pattern recognition systems for streaming and challenging problems.

The second edition of the workshop groups 6 carefully selected works focusing on different aspects of compound pattern recognition and efficient computing platforms dedicated to the mentioned above tasks. Unfortunately, several valuable works have not been accepted, because the competition has been fierce as only a limited number of presentations can be accommodated to the workshop. During the workshop we will have a pleasure to participate in an extraordinary keynote talk by Prof. Bogusław Cyganek from AGH University of Science and Technology (Poland) concentrated on *Computational Aspects of Data Processing and Pattern Recognition with Tensor Methods.*

Organizers would like to thank all the authors which submitted their works to the workshop and reviewers for their hard works and valuable comments. We also appreciate the help of Organizers of International Conference of Computational Sciences (ICCS), which have given us opportunity to organize this scientific event.