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Intelligent Information Processing and Web Mining

Advances in Soft Computing

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Preface

This volume contains selected papers, presented at the international conference on Intelligent Information Processing and Web Mining Conference IIS:IIPWM'06, organized in Ustroń (Poland) on June 19-22nd, 2006.

The event was organized by the Institute of Computer Science of Polish Academy of Sciences, a leading Polish research institution in fundamental and applied research in the area of Artificial Intelligence (AI) and of Information Systems (IS), in cooperation with a number of scientific and business institutions. It was a continuation of a series of conferences on these subjects, initiated by Prof. M. Dąbrowski and Dr. M. Michalewicz in 1992.

The conference was addressed primarily to those who are active in Artificial Immune Systems (AIS) and other biologically motivated methods, Computational Linguistics (CL), Web technologies (WT), and Knowledge Discovery (KD), and all kinds of interactions between those fields.

The submitted papers covered new computing paradigms, among others in biologically motivated methods, advanced data analysis, new machine learning paradigms, natural language processing, new optimization technologies, applied data mining using statistical and non-standard approaches. The papers give an overview over a wide range of applications for intelligent systems: in operating systems design, in network security, for information extraction from multimedia (sound, graphics), in financial market analysis, in medicine, in geo-science, etc.

Though numerous papers have been submitted, only a fraction of them (about 40%) was accepted for publication in a rigorous reviewing process.

At this point we would like to express our thanks to the members of Programme Committee, as well as additional reviewers, who kindly agreed to express their opinions, for their excellent job. Also we are thankful to the organizers of the special sessions accompanying this conference. But first of all we are deeply indebted the contributors to this volume and those whose papers were not qualified for publication for their hard research work that made this conference such an exciting event.

On behalf of the Program Committee and of the Organizing Committee we would like to thank all participants: computer scientists, mathematicians, engineers, logicians and other interested researchers who found excitement in advancing the area of intelligent systems. We hope that this volume of

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IIS:IIPWM'06 Proceeding will be a valuable reference work in your further research.

We would like to thank Dr. M. Wolinski for his immense effort in resolving technical issues connected with the preparation of this volume.

Ustroń, Poland
June 2006

Mieczysław A. Kłopotek, Conference Co-Chair
Sławomir T. Wierzchoń, Conference Co-Chair
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