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Preface

At present, we observe very fast progress in the development of information and communication technologies affecting all the sectors of our life. New economy (called also knowledge-based economy) is becoming more and more important. It is often combined with information and communication technologies, technical progress, and innovations.

In information society and knowledge-based economy, knowledge is treated as a one of the most valuable assets. One can observe a tendency to know more and more. New information and communication technologies offer better, faster, and more powerful tools and techniques; on the other hand, these new possibilities create new needs.

The Department of Artificial Intelligence Systems since the beginning of 1990s has managed seventeen conferences recently focused on different knowledge acquisition and management topics. In 2010 the event took place in Książ Castle (Lower Silesia, close to Wałbrzych) in the very original scenery, where our discussions were located in historical locations, reminding participants about the mixture of cultures and scientific disciplines representing different sorts and approaches to knowledge exchange. The researchers participating personally or virtually in this conferences represented academic centres from Europe and overseas (Belarus, France, Ireland, and Australia). Apart from traditional sessions, the conference was enriched by video presentations with the participation of our guests from Europe as well as Poland. The following persons presented papers in this way: Krzysztof Michalik (Poland), who spoke about “Diagnosis of industry sets using expert systems”, Eunika Mercier-Laurent from France, who presented some ideas about “Knowledge EcoInnovation” (later published also a larger book about it), and Markus Helfert representing Ireland, who delivered a talk about “Current and future trends in knowledge management”.

This year from over 20 submitted papers, 15 were accepted and included as research papers in this volume. The papers appear in the alphabetical order of authors' names. The proceedings consist of papers divided into three areas:

- methods of artificial intelligence: papers written by Roman Karpovich, Małgorzata Nycz, Maciej Pondel, Maria Radziuk, Tatyana Solodukha and Boris Zhelezko;
- applications of intelligent systems: papers authored by Jerzy Korczak and Marcin Iżykowski, Antoni Ligeza, Maria Mach, Jerzy Surma, Paweł Weichbroth;
- knowledge management: papers prepared by Iwona Chomiak-Orsa, Eunika Mercier-Laurent, Mieczysław L. Owoc, Radosław Wójtowicz, Radosław Zatoka and Cezary Hołub.

Special thanks are addressed to the Reviewers for their discerning and constructive comments that allowed the Authors to prepare papers of better quality. Separate thanks go to our departmental colleagues responsible for the conference organisation: Barbara Smok, PhD, Janina Jakubczyc, PhD, and Maciej Pondel, PhD.

We hope that this monograph as well as the conference stand a valuable contribution in the dissemination of knowledge acquisition and management topics.

Wrocław, May 2010

Małgorzata Nycz, Mieczysław Lech Owoc