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Foundations of Intelligent Systems

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Preface

This volume contains the papers selected for presentation at the Tenth International Symposium on Methodologies for Intelligent Systems - ISMIS'97, held in Charlotte, North Carolina, October 15-18, 1997. The symposium was hosted by UNC-Charlotte and sponsored by the Oak Ridge National Laboratory, First Union National Bank, University of Warsaw, UNC-Charlotte, and others.

ISMIS is a conference series that was started in 1986 in Knoxville, Tennessee. Since then it has been held in Charlotte (North Carolina), Knoxville (Tennessee), Torino (Italy), Trondheim (Norway), and Zakopane (Poland).

The Program Committee selected the following major areas for ISMIS'97:

- Approximate Reasoning
- Evolutionary Computation
- Intelligent Information Systems
- Knowledge Representation and Integration
- Learning and Knowledge Discovery
- Logic for Artificial Intelligence
- Methodologies

The contributed papers were selected from 117 full draft papers by the following Program Committee: Luigia Carlucci Aiello, Alan Biermann, Jacques Calmet, Wesley Chu, Robert Demolombe, Jon Doyle, Attilio Giordana, Diana Gordon, Mirsad Hadzikadic, Jiawei Han, David Hislop, Janusz Kacprzyk, Willi Kloesgen, Yves Kodratoff, Alberto Martelli, Robert Meersman, Zbigniew Michalewicz, Ryszard Michalski, Ephraim Nissan, Lin Padgham, Rohit Parikh, Lynne Parker, Gregory Piatetsky-Shapiro, Francois Pin (Program Co-Chair), Henri Prade, Luc De Raedt, Lorenza Saitta, Erik Sandewall, Yoav Shoham, Andrzej Skowron (Program Co-Chair), Richmond Thomason, Shusaku Tsumoto, S.K. Michael Wong, Jing Xiao, Carlo Zaniolo, Gian Piero Zarri, Maria Zemankova, and Jan M. Zytkow. Additionally, we acknowledge the help in reviewing the papers from: Lawrence Cavedon, Jianhua Chen, David Chiu, Jutta Eusterbrock, Jerzy Grzymala-Busse, Bozena Kostek, Marzena Kryszkiewicz, Neil Murray, Xumin Nie, Olga Pons, Henryk Rybinski, Roman Swiniarski, Stan Szpakowicz, Les Sztandera, Christel Vrain, Anita Wasilewska, Hans Weigand, Alicja Wieczorkowska, and Wojtek Ziarko.

The Symposium was organized by the Computer Science Department, UNC-Charlotte. The Organizing Committee consisted of I.I. Ageenko, B. Bachman, M. Hadzikadic, K. Harber, M. Klopotek, M.S. Narasimha, Z.W. Ras (chair), J. Senyszyn, and M. Szymanowska. Z.W. Ras was the general chair of the Symposium.

We wish to express our thanks to Alan Biermann, Jaime Carbonell, Wesley Chu, Michael Lowry, and Gregory Piatetsky-Shapiro who presented the invited talks at the symposium. We would like to express our appreciation to the sponsors of the symposium and to all who submitted papers for presentation and publication in the proceedings. Special thanks are due to Alfred Hofmann of Springer-Verlag for his help and support.

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