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Autonomous Intelligent Systems: Agents and Data Mining

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Preface

This volume contains the papers presented at the International Workshop "Autonomous Intelligent Systems: Agents and Data Mining" (AIS-ADM 2005) held in St. Petersburg, Russia, during June 6–8, 2005. The workshop was organized by the St. Petersburg Institute for Informatics and Automation of the Russian Academy of Sciences (SPIIRAS) in cooperation with Binghamton University (SUNY, USA) and the Web Intelligence Consortium.

Autonomous Intelligent Systems (AIS) constitute an emerging class of intelligent information systems integrating recent advances in various technologies of Artificial Intelligence. Modern AIS incorporate multi-agent and data mining systems providing a new dimension for further progress in intelligent information technology.

AIS-ADM 2005 provided an international forum to multi-agent and data mining researchers. A total of 29 papers from 15 countries relating to various aspects of both theory and applications of multi-agent systems, data mining and their joint area were submitted to AIS-ADM 2005. Out of them 17 were selected as regular presentations. Three technical sessions were organized, namely: Integration of Multi-agent and Data Mining Techniques; Ontology Issues and Web Mining; and Applications and Case Studies of the Integrated Technology. The panel discussion was devoted to the mutual enrichment and challenging problems emerging in the joint area of research. The AIS-ADM 2005 program was enriched by six distinguished invited speakers: Nick Jennings, Chengqi Zhang, Mircea Negoita, Pericles Mitkas, Hai Zhuge and Leonid Perlovsky.

The success of the workshop was assured by the team efforts of sponsors, organizers, reviewers and participants. We would like to acknowledge the contribution of the individual Program Committee members and thank the paper reviewers. Our sincere gratitude goes to the participants and all the authors of the submitted papers.

We are grateful to our sponsors, the European Office of Aerospace Research and Development (EOARD) of the US Air Force; the US Office of Naval Research Global (ONRGlobal); the U.S. Army International Technology Center-Atlantic, European Research Office; the Russian Foundation for Basic Research (RFBR); the Ministry of Science and Education of the Russian Federation; and AgentLink III- European Co-ordination Action for Agent-Based Computing, for their generous support.

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June 2005

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