Preface

CANS 2008

This book contains selected papers presented at the International Conference “Complexity and Intelligence of the Artificial and Natural Complex Systems. Medical Applications of the Complex Systems. Biomedical Computing”. The conference was organized by the Romanian Academy, Bucharest and Petru Maior University of Targu Mures and was held between 8-10 November 2008 at Petru Maior University of Targu Mures, Romania.

The aim of the conference was to bring together researchers working in the main areas of Complex Systems, Artificial Intelligence, Intelligent Systems, Medical Applications and Biomedical Computing for presenting their recent results, and exchanging ideas related to the solutions of difficult problems whose solving involves multidisciplinary approaches. Another aim was the offering of an insight into the essence and variety of facets of complexity that we commonly encounter in artificial and natural systems. With the growing complexity of present-day artificial systems, the development of suitable and effective techniques becomes indispensable. Of particular interest were various issues, paradigms and solutions related with to the development of artificial complex systems, and the establishment of connections between their complexity and intelligence, in order to solve difficult problems in domains like medical sciences and biology.

We hope that, the next edition of the conference that will take place in 2010, will attract a very large number of scientists interested by the theoretical and practical sides of the scientific areas covered by the topics of the conference.

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