

BICS 2008

Proceedings of the 1st International Conference

BIO-INSPIRED COMPUTATIONAL METHODS USED
FOR SOLVING DIFFICULT PROBLEMS—
DEVELOPMENT OF INTELLIGENT AND COMPLEX SYSTEMS

Tirgu Mures, Romania 5 – 7 November 2008

EDITORS
Calin Enachescu
Barna L. Iantovics
Florin Gh. Filip

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Preface

This book contains selected papers presented at BICS 2008, The International Conference “Bio-Inspired Computational Methods Used for Solving Difficult Problems—Development of Intelligent and Complex Systems,” organized by the Romanian Academy, Bucharest and Petru Maior University of Tg. Mures, held on 5 – 7 November 2008 at Petru Maior University of Tg. Mures, Romania. The aim of this conference was to bring together researchers working in the main areas of Complex Systems, Artificial Intelligence, Intelligent Systems and Natural Computing for presenting their recent results and exchanging ideas. The papers included in the book provide an introduction to and a state-of-the-art presentation of bio-inspired computer science. The covered areas included natural computing, such as evolutionary and neural computing, as well as younger research directions, such as DNA computing, ant colony optimization, with connections and applications to intelligent and complex systems and to medical informatics. Thus, both directions of research, from biology to informatics and from informatics to biology were illustrated.

We hope that the next conference which is scheduled for 2010 will present interest for a very large number of scientists working at both the theoretical and practical sides of the scientific areas covered by the topics of the conference.

Looking forward to meeting you at the next edition of BICS !

5 February 2009

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