

TABLE OF CONTENTS

<i>J. Stepanić</i>	ii	Editorial
<i>K. Martinás</i>	iii	Guest Editorial
<i>J. Bryson and I. Čače</i>	iv	Announcement
<i>J. Stepanić</i>	v	List of referees
<i>K. Martinás</i>	63	Non-equilibrium Economics
<i>É. Hideg</i>	80	Emergence in the Foresight
<i>A. Margitay-Becht</i>	89	Aid Competition – a Simple Agent-Based Model of Competition for Financial Aid
<i>A.M. Tsirlin and V. Kazakov</i>	102	Optimal Processes in Irreversible Microeconomics
<i>A.M. Tsirlin, V. Kazakov and T.S. Romanova</i>	124	Optimal Separation Sequence for Three-Component Systems
<i>J. Stepanić, H. Štefančić and V. Zlatić</i>	136	Social Free Energy of a Pareto-Like Resource Distribution
<i>P. Gábor</i>	144	Complex Systems Built by Simple Elements

EDITORIAL

Dear readers, this issue of INDECS contains the selected contributions to the international conference DECOS 2006, the details of which are given by the guest editor, Prof. Katalin Martinás in the following page.

The release of this issue marks the beginning of the INDECSA 2006 contest, the result of which will be given in the INDECS 5(1).

In order to contribute further to linking complex systems description with topics important for our world, INDECS 5(2) is devoted to *Modelling Related to Poverty and Human Development*, and will be guest edited by Prof. Joanna Bryson and Ivana Čače. Please find more details regarding that in the Announcement on page *iv* of this issue.

Zagreb, 20 December 2006

Josip Stepanić

GUEST EDITORIAL

The DECOS 2006 conference was a continuation of the series of international workshops and conferences on Complex Systems in Natural and Social Sciences (CSNSS), which took place in Hungary (Matrafüred 1995 and 2002, Tata 1996, Budapest 1997 and 2003) in Poland (Kazimierz Dolny 1999, Zakopane 2000, Torun 2001) and in Croatia (Zagreb 2005). Its purpose was to bring together the interdisciplinary groups of researchers working on complex systems and nonlinear dynamics in sciences, economy and humanities; to provide a forum for exchange of new ideas, for discussing the emerging topics and also for gaining fresh insights into possible applications of methods of sciences to study of socio-economic systems.

We hope that this purpose has been fulfilled, at least partially, since definitive success cannot be expected in this “never-ending story” of interchange between real life and various research domains.

The conference was financially supported by the Croatian Ministry of Science, Education and Sport.

Articles for the Proceedings were accepted after affirmative evaluation by the Scientific Committee.

Budapest and Krakow, 15 January 2007

Katalin Martinás

ANNOUNCEMENT

The Journal INDECS announces the special issue *Modelling Related to Poverty and Human Development*, to be released as INDECS 5(2).

The motivation for that topic is to contribute to the Global Theme Issue on Poverty and Human Development, initiated by the Council of Science Editors. In particular, science journals throughout the world will simultaneously publish papers on this topic of worldwide interest – to raise awareness, stimulate interest, and stimulate research into poverty and human development.

Human Development and Poverty are situated within a complex web of factors of both local and global scale: environmental, political, economic, religious, personal and other. We are looking for papers that describe parts of this network and analyse the relationships between the many factors that play a part in poverty and human development.

We hope that you will participate in this initiative by submitting articles for the special issue, in order to help shed some light on these important issues.

Both papers presenting original research as well as viewpoint and review articles, are invited. We do not wish to pose strict limits on length, but we do encourage authors not to use more words than the topic requires.

Research methods we are interested in include (but are not limited to) simulations, agent based or otherwise, or other descriptive models of complex real-world systems. The target research areas could be any of a number of topics, that in some way relate to human development and poverty. For example, in no particular order: urbanisation, war, charity, over-fishing, trade, improved access to information, disease threats, recent liberalisation trends in utilities, public traffic, public health care, corruption, migration, human trafficking, energy demands. Insights in to the research methods themselves are also welcome, answering questions like: How to compare simulation results with data?

Prospective authors are invited to submit an extended abstract of approximately 500 words by 15 April, in order to enable us to give feedback in an early stage. The deadline for full papers is 1 June 2007, to allow sufficient time for review process. The common publication date for all the journals participating in this theme issue will be Monday, October 22, 2007.

Bath and Utrecht, February 1, 2007

Joanna Bryson and Ivana Čač

LIST OF REFEREES

The following scholars, listed in alphabetic order, refereed manuscripts for the journal INDECS in 2006:

Attila Grandpiere

Timotej Jagrič

Helena Jeriček

Maja Jokić

Boris Kožnjak

Katalin Martinás

Vladimir Mikuličić

Ning Nan

Barbara Pabjan

Mirjana Pejić-Bach

Mohammad Rahmat Widyanto

Yasufumi Takama

Their contribution to the quality of the Journal's content is acknowledged.

Zagreb, 20 December 2006

Josip Stepanić

