## APPLIED MATHEMATICS AND COMPUTER SCIENCE

## Editor-in-Chief

Józef KORBICZ

University of Zielona Góra, Institute of Control and Computation Engineering, Poland, e-mail: J. Korbicz@issi.uz.zgora.pl **Scientific Secretary** 

Dariusz UCIŃSKI

University of Zielona Góra,

Institute of Control and Computation Engineering, Poland, e-mail: D. Ucinski@issi.uz.zgora.pl

## **Associate Editors**

Marian ADAMSKI

University of Zielona Góra, Poland

Robert BABUŠKA

Delft University of Technology,

The Netherlands

Stanisław BANKA

Technical University of Szczecin, Poland

Pierre BORNE

Ecole Centrale de Lille, Villeneuve, France

Abdelhaq EL JAI

University of Perpignan, France

Michel FLIESS

Centre des Mathématiques et de Leurs

Applications, Cachan, France

Paul M. FRANK University of Duisburg, Germany

Toshio FUKUDA

Nagoya University, Japan

Krzysztof GAŁKOWSKI

University of Zielona Góra, Poland

Adam GRZECH

Wrocław University of Technology, Poland

Janusz KACPRZYK

Polish Academy of Sciences,

Warszawa, Poland

Michał KISIELEWICZ

University of Zielona Góra, Poland

Jerzy KLAMKA

Silesian University of Technology,

Gliwice, Poland

Witold KOSINSKI

Polish-Japanese Institute of Information

Technology, Warszawa, Poland

Jan M. KOŚCIELNY

Warsaw University of Technology, Poland

Zdzisław KOWALCZUK

Gdańsk University of Technology, Poland

Krzysztof KOZŁOWSKI

Poznań University of Technology, Poland

Arkadii KRYAZHIMSKII

Russian Academy of Sciences, Moscow, Russia

Anton KUMMERT

University of Wuppertal, Germany

James LAM

University of Hong Kong, Hong Kong

Irena LASIECKA

University of Virginia, Charlottesville, U.S.A.

Vyacheslav MAKSIMOV

Russian Academy of Sciences, Ural Branch, Ekaterinburg, Russia

Krzysztof MALINOWSKI

Warsaw University of Technology, Poland

Teodor MARCU

University of Duisburg, Germany

Woiciech MITKOWSKI

University of Mining and Metallurgy,

Kraków, Poland

Henk NIJMEIJER

Eindhoven University of Technology,

The Netherlands

Thomas PARISINI

University of Trieste, Italy

Ronald J. PATTON

University of Hull, U.K.

Witold PEDRYCZ

University of Alberta, Edmonton, Canada

Seppo POHJOLAINEN

Tampere University of Technology, Finland

Marios POLYCARPOU

University of Cincinnati, U.S.A.

Ewaryst RAFAJŁOWICZ

Wrocław University of Technology, Poland

Fred W. RAMIREZ

University of Colorado, Boulder, U.S.A.

Eric ROGERS

University of Southampton, U.K.

Leszek RUTKOWSKI

Technical University of Częstochowa, Poland

Jose SÁ da COSTA

Technical University of Lisbon, Portugal

Roman SŁOWIŃSKI

Poznań University of Technology, Poland

Piotr SMOLARKIEWICZ

National Center for Atmospheric Research,

Boulder, Colorado, U.S.A.

Jan SOKOŁOWSKI

University of Nancy, Vandoeuvre, France

Tomasz SZMUC

University of Mining and Metallurgy,

Kraków, Poland

Andrzej ŚWIERNIAK Silesian University of Technology,

Gliwice, Poland

Ryszard TADEUSIEWICZ

University of Mining and Metallurgy,

Kraków, Poland

Krzysztof TCHOŃ

Wrocław University of Technology, Poland

Joseph J. WINKIN

Facultés Universitaires Notre-Dame

de la Paix, Namur, Belgium

Xinghuo YU

RMIT University, Melbourne, Australia

Frequency: Published 4 issues per year; two regular and two special issues prepared by invited editor(s).

Subscription: Annual Institutional Subscription Rate 2002: Europe US \$ 180.00. All other countries US \$ 200.00. Prices include postage and are subject to change without notice. Subscriptions are accepted on a prepaid basis only and are entered on a calendar year basis. Issues are sent by standard mail (surface within Europe, and air delivery outside Europe). To subscribe, send a cheque payable to the University of Zielona Góra or make a payment by bank transfer to Kredyt Bank S.A., Zielona Góra, Poland, account No. 15001810–121810038655 (Postscript: AMCS'2002 subscription).

Internet: International Journal of Applied Mathematics and Computer Science is currently available on-line. Author's kit, Scope & Profile, Subscription Notes, Editorial Information and Summaries of recent issues can be found at: http://www.issi.uz.zgora.pl/amcs

Publishing and Editorial Office: University of Zielona Góra, Int. J. of Applied Mathematics and Computer Science, ul. Podgórna 50, 65-246 Zielona Góra, Poland

E-mail: amcs@issi.uz.zgora.pl

Fax: (+48 68) 325-46-15Tel.: (+48 68) 32–82–506

Copyright ©University of Zielona Góra, Poland. All rights reserved.

Copyright ©Lubusky Scientific Society in Zielona Góra. All rights reserved.

## **Information for Authors**

**Types of contribution.** Research articles, review papers and book reviews.

**Submission by Internet.** Submitting the paper by Internet considerably speeds up the submission procedure. Only *Postscript* or *PDF* files that are ready to be printed can be accepted. Go to our website

http://www.issi.uz.zgora.pl/amcs

select Submit now and follow the instructions.

**Submission by ordinary mail.** Send three copies of the manuscript in English, each copy complete with illustrations. Enclose the cover letter that includes to whom correspondence should be addressed, including full contact details, fax and e-mail address of the corresponding author. Mail your manuscripts to the Editor—in—Chief:

Prof. Józef Korbicz Int. J. Applied Mathematisc and Computer Science University of Zielona Góra Institute of Control and Computation Engineering ul. Podgórna 50, 65–246 Zielona Góra, Poland

**Review process.** All manuscripts are sent to at least two independent reviewers to ensure both accuracy and relevance to the journal. The final decision on acceptance will be made by Editor–in–Chief.

Phone: (+48 68) 328-24-22 or 324-72-95

E-mail: amcs@issi.uz.zgora.pl

Fax: (+48 68) 325-46-15

**Text.** Typewrite with double-space and use one side of sheet only. Good office-duplicated copies are acceptable. Headings and subheadings for different sections of the paper should be clearly indicated and numbered in Arabic numerals. The title page should include each author's name and affiliation, and a full correspondence address, including fax and e-mail, for the contact author. Provide an informative 100- to 250-words abstract at the head of the manuscript, and moreover max. 5–7 keywords.

**References.** All publication cited in the text should be present in a list of references following the text of the manuscript. In the text refer to the author's name and year of publication, e.g. (Pandolfi, 1998; 1999). Up to two authors can be mentioned in text references, e.g. (Burns and King, 1995; Rosenblum and Rovnyak, 1985); more than two authors should be shortened to the first author's name with *et al.*, e.g. (Banks *et al.*, 2000). References should be listed alphabetically at the end of the manuscript and should conform to the examples below.

Journals:

Banks H.T., del Rosario R.C.H. and Smith R.C. (2000): *Reduced order model feedback control design: Numerical implementation in a thin shell model.* — IEEE Trans. Automat. Contr., Vol.45, No.7, pp.1312–1324.

Pandolfi L. (1998): *Dissipativity and Lur'e problem for parabolic boundary control systems.* — SIAM J. Contr. Optim., Vol.36, No.6, pp.2061–2081.

Books:

Burns J.A. and King B.B. (1995): *Representation of feedback operators for hyperbolic systems*, In: Computation and Control IV (K.L. Bowers and J. Lund, Eds.). — Boston: Birkhäuser, pp.57–74.

Rosenblum M. and Rovnyak J. (1985): Hardy Classes and Operator Theory. — New York: Oxford U.P.

Proceedings: Pandolfi L. (1999): *Recent results on the Kalman-Popov-Yakubovich problem.* — Proc. Int. Conf. *Mathematics and its Applications*, Yogyakarta, Indonesia, pp.47–60.

**Illustrations.** All illustrations are to be referred to as figures. They should be submitted on separate sheets in a form suitable for reproduction. To facilitate identification and processing, on the back of each figure, the number, the first author's name, and the orientation of the figure should be indicated.

**Electronic publishing.** In order to accelerate editing and printing, the authors of the accepted manuscript will be required to provide its final version on a computer MS-DOS formatted disk along with one paper copy or by Internet (source file). Most word processing formats are accepted but LATEX is preferred.

**Voluntary page charge.** Papers selected for publication in the Int. J. *AMCS* are subject to a voluntary *Page Charge*, which will be invoiced through the author to the author's company, institution, or agency. Publication is not dependent on the payment of the voluntary *Page Charge*. 15 reprints and one sample copy of the journal are provided when the paper has been published. Additional reprints and journal copies can be ordered from the Editorial Office.