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IFAC Journals

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Engineering Applications of Artificial Intelligence

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can be found respectively at

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Modelling and Control in Biomedical Systems

(including Biological Systems)

5th IFAC Symposium

Melbourne, Australia, 21 – 23 August, 2003

The 5th IFAC Symposium on Modelling and Control in Biomedical Systems (including Biological Systems) was held in Hilton on the Park, Melbourne, Australia, from 21–23 August 2003. The Symposium was sponsored by IFAC TC on Modelling and Control of Biomedical Systems (BIOMED) and co-sponsored by the International Union of Physical and Engineering Sciences in Medicine (IUPESM), the Institute of Electrical and Electronic Engineers, Engineering in Medicine and Biology Society (IEEE-EMBS), the International Measurement Confederation (IMEKO), Engineers Australia (IEAust), the University of Sydney, and the Hong Kong Polytechnic University.

Previous Symposia on this prominent theme took place in Venice, Italy in 1988, Galveston, USA in 1994, Warwick, UK in 1997 and Karlsburg/Greifswald, Germany in 2000. A precursor to this series of events was a Conference on “Regulation & Control in Physiological Systems” sponsored by IFAC (Systems Committee), American Physiological Society and the International Union of Physiological Sciences that was held at the University of Rochester, USA in 1973.

The aim of the 5th IFAC BIOMED Symposium was to act as an international forum for researchers and practitioners, both in academia and industry, to present their latest research and ideas in the field of biomedical system control and modelling, including but not limiting to:

- Biomedical Functional Imaging and Data Modelling
- Biomedical Kinetic Modelling and System Control
- Biomedical Systems and Signal Processing
- Cellular and Molecular Systems, and Bioinformatics
- Circulatory and Respiratory Systems
- Critical Care and Decision Support Systems
- Endocrine and Metabolic Systems
- Neurosystems and Musculoskeletal Systems

Being multi- and interdisciplinary in nature, 101 papers representing 24 countries (28 countries if co-authors’ home countries are also included) were carefully reviewed and selected for presentation in the Symposium by the International Programme Committee consisting of 95 members, who are prominent researchers in various disciplines of biomedical system modelling and control. In order to accommodate the large number of high quality

papers presented in the single-track sessions of the Symposium over the tight two day schedule, short oral presentations at the platform plus 1.5-hour poster presentation and discussion with the attendees before the posters were the main means used during this Symposium for attendees to exchange ideas. Such a combination of short oral presentations at the platform (in a single-track session) and discussions with attendees before the well displayed posters had proven to be the most effective way to exchange ideas in a number of the most prestigious conferences recently, including our own previous IFAC symposia. In addition, 25 papers, in most cases one paper per country, were selected for oral presentations. Both groups of papers possess the same high quality in spite of their difference in modes of presentation. In the light of a vote of the IPC members and session chairs at a meeting held right after the Symposium was closed, 13 application-oriented papers and 3 theoretical papers were selected and their extended versions will be recommended for possible inclusion in Control Engineering Practice and Automatica, respectively.

The programme of the Symposium included eight sessions, with four oral presentation sessions and three poster sessions, as well as a plenary session in which two invited keynote presentations were given by internationally prominent and well-recognised research leaders. One is in the area of clinical research and was given by Dr. Geoffrey Parkin, Founding Director of the Intensive Care Unit at the Monash Medical Centre in Melbourne. The other was in the IT-related and high-tech research area given by Dr. Wesley W. Chu, Professor and Former Head, Department of Computer Science, University of California at Los Angeles.

The TC meeting was held on the first day of the event and a number of issues were discussed, including the scope of the TC, membership development and enhancement, summary report from the Chairman, plans for future activities, and possible research collaborations.

The Symposium attracted over 100 participants from 24/28 countries. It was the also the first IFAC event that a Proceedings volume instead of a Preprints volume was available to delegates at the Symposium. This kind of publication arrangement was discussed during the 15th Triennial World Congress in Barcelona with Elsevier. The Symposium was a success, and the TC on BIOMED decided that the 6th IFAC BIOMED Symposium will be held in Reims, France in September, 2006.

D. Feng, NOC Chair



Papers from the March 2004 Issue

HDD Dual-stage Servo-controller Design Using a μ -analysis Tool
G. Herrmann, G. Guo
Economic Evaluation and Design of an Electric Arc Furnace Controller Based on Economic Objectives
D.J. Oosthuizen, I.K. Craig, P.C. Pistorius
Regularised Kernel Density Estimation for Clustered Process Data
Q. Chen, U. Kruger, A.T.Y. Leung
High Performance Hybrid Mold Level Controller for Thin Slab Caster
D. Lee, Y. Kueon, S. Lee
Synchronous Disturbance Attenuation in Magnetic Bearing Systems Using Adaptive Compensating Signals
J. Shi, R. Zmood, L. Qin
Design of Generalized Conceptual Guidance Law Using Aim Angle
K.-S. Kim, Y. Kim

Special Section on Benchmarking Modelling and Control in Wastewater Treatment

Preface
U. Jeppsson and M.-N. Pons

Editorial

The COST Benchmark Simulation Model-current State and Future Perspective
U. Jeppsson, M.-N. Pons
Simulation of Respirometry-based Detection and Mitigation of Activated Sludge Toxicity
J.B. Copp, H. Spanjers
Benchmarking Procedure for Full-scale Activated Sludge Plants
A. Abusam, K.J. Keesman, H. Spanjers, G. van Straten
Comparison of Advanced Control Strategies for Improving the Monitoring of Activated Sludge Processes
W. Zarrad, J. Harmand, M. Devisscher, J.P. Steyer
Multicriteria Control Strategy for Cost/quality Compromise in Wastewater Treatment Plants
C. Cadet, J.F. Beteau, S. Carlos Hernandez

Control Strategy Robustness with Respect to Hydraulics
M.-N. Pons, O. Potier
Benchmarking Combined Biological Phosphorus and Nitrogen Removal Wastewater Treatment Processes
K.V. Gernaey, S.B. Jorgensen

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Improvements to the Water Management of a Run-of-river HPP Reservoir: Methodology and Case Study
D. Paravan, T. Stokelj, R. Golob
Block-oriented Approximate Feedback Linearization for Control of Pneumatic Actuator System
F. Xiang, J. Wikander
Regularisation Approach for Real-time Modelling of Aero Gas Turbines
T.V. Breikin, V.Y. Arkov, G.G. Kulikov
Recursive Spline Interpolation Method for Real-time Engine Control Applications
A. Stotsky, A. Forgo
A Simple Method for Robust Control Design, Application on a Non-linear and Delayed System: Engine Torque Control
Y. Chamaillard, P. Higelin, A. Charlet
A Controlled Friction Damper for Vehicle Applications
E. Guglielmino, K.A. Edge
The Implementation of a Dual-redundant Control System
Y. Zhao, F. Liu

Special Section on UKACC Conference Control 2002

Preface
S. Daley

Four-term Bilinear PID Controller Applied to an Industrial Furnace
S. Martineau, K.J. Burnham, O.C.L. Haas, G. Andrews, A. Heeley
Active Vibration Control for Marine Applications
S. Daley, F.A. Johnson, J.B. Pearson, R. Dixon
Global Optimisation-based Control Algorithms Applied to Boundary Layer Transition Problems
G.V. Veres, O.R. Tutty, E. Rogers, P.A. Nelson
Towards Fault-tolerant Active Control of Rotor-magnetic Bearing Systems
M.O.T. Cole, P.S. Keogh, M.N. Sahinkaya, C.R. Burrows
From Research to Product Using a Common Development Platform
M. Tombs, M. Henry, C. Peter

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Model Based Diagnosis of the Air Path of an Automotive Diesel Engine
M. Nyberg, T. Stutte
Feedback Control for QoS of Mixed Traffic in Communication Networks
H.S. Kim, S.Y. Shin, W.H. Kwon
An Automated Performance Monitor for Process Controllers
Q. Li, J.R. Whiteley, R.R. Rhinehart
Neural-network-based Payload Determination of a Moving Loader
M. Savia, H.N. Koivo
Computational Simulation and Experimental Research on Speed Control of VVVF Hydraulic Elevator
Y. Huayong, Y. Jian, X. Bing
Field Performance Assessment of the ADVANCE-F Automatic Steering Control Vehicle
T.-H. Chang
Robust Disturbance Observer for the Track-following Control System of an Optical Disk Drive
J.R. Ryoo, T.-Y. Doh, M.J. Chung
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R.P. Paiva, A. Dourado, B. Duarte
Control Approaches to Bio- and Ecological Systems
Y. Hashimoto, I. Farkas, H. Murase, E.R. Carson, A. Sano

Special Section on Fuzzy System Applications in Control

Preface
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Engine Load Prediction in Off-road Vehicles Using Multi-objective Nonlinear Identification
K. Maertens, T.A. Johansen, R. Babuska
Fuzzy Control of Reactive Navigation with Stability Analysis Based on Concavity and Lyapunov Theory
F. Cuesta, A. Ollero
Fuzzy State Feedback Gain Scheduling Control of Servo-pneumatic Actuators
H. Schulte, H. Hahn



FORTHCOMING EVENTS

2004
No. 2
April

Title	2004	Place	Further Information
IFAC Symposium Cost Oriented Automation – COA04	June 7 – 9	Gatineau Canada	http://www.uqo.ca/blum/ifac/ e-mail: heinz.erbe@tu-berlin.de
IFAC Symposium Automatic Control in Aerospace	June 14 – 18	St. Petersburg Russia	http://aca2004.aanet.ru e-mail: aca2004@aanet.ru
IFAC Symposium Telematics Applications in Automation and Robotics – TA 2004	June 21 – 23	Helsinki Finland	http://www.automaatioseura.fi/TA04 e-mail: office@atu.fi
American Control Conference – in co-operation with IFAC –	June 30 – July 2	Boston MA, USA	http://www.mie.uiuc.edu/acc2004/ e-mail: speyer@seas.ucla.edu
IFAC Symposium Intelligent Autonomous Vehicles – IAV 2004	July 5 – 7	Lisbon Portugal	http://iav04.isr.ist.utl.pt e-mail: iav04@isr.ist.utl.pt
IFAC Symposium Dynamics and Control of Process Systems – DYCOPS-7	July 5 – 7	Cambridge MA, USA	http://www.dycops.org/ e-mail: craven@dycops.org

FORTHCOMING EVENTS (ctd.)

Title	2004	Place	Further Information
IFAC Conference Control Applications in Marine Systems – CAMS 2004	July 7 – 9	Ancona Italy	http://cams04.unian.it e-mail: cams04@unian.it
IFAC Workshop Fractional Differentiation and its Applications – FDA '04	July 19 – 20	Bordeaux France	http://www.lap.u-bordeaux.fr/fda04/home.html e-mail: fda04@lap.u-bordeaux.fr
Asian Control Conference (5th) – in co-operation with IFAC –	July 20 – 23	Melbourne Australia	http://www.ascc2004.com/ e-mail: ascc@ee.mu.oz.au
IFAC Symposium Large Scale Systems: Theory and Applications	July 26 – 28	Osaka Japan	http://www-watt.mech.eng.osaka-u.ac.jp/lss2004/ e-mail: ifac-lss04@watt.mech.eng.osaka-u.ac.jp
IFAC Symposium Modeling and Control of Economic Systems	July 28 – 31	Redlands CA, USA	http://newton.uor.edu/ifac_sme_2004/ e-mail: SME_2004@Redlands.edu
INSTICC/IFAC Intl. Conference Informatics in Control, Automation and Robotics – ICINCO 2004	August 25 – 28	Setubal Portugal	http://www.icinco.org e-mail: secretariat@icinco.org
IFAC Workshops on – Adaptation and Learning in Control and Signal Processing – ALCOSP – Periodic Control Systems – PSYCO	August 30 – September 1	Yokohama Japan	http://www.contr.sd.keio.ac.jp/ifacws04/main.htm e-mail: sano@sd.keio.ac.jp e-mail: katayama@amp.i.kyoto-u.ac.jp
IFAC Symposium 6 th Nonlinear Control Systems – NOLCOS'04	September 1 – 3	Stuttgart Germany	http://www.nolcos2004.uni-stuttgart.de e-mail: nolcos2004@ist.uni-stuttgart.de
IFAC Multitrack Conference Advanced Control Strategies for Social and Economic Systems	September 2 – 4	Vienna Austria	http://www.ihr.tuwien.ac.at/acs04/ e-mail: kopacek@ihr.tuwien.ac.at
IFAC Workshop Internet Based Control Education – IBCE'04	September 6 – 7	Grenoble France	http://ibce.lag.ensieg.inpg.fr e-mail: ibce@inpg.fr
IFAC Symposium Mechatronic Systems	September 6 – 8	Sydney Australia	http://rumi.newcastle.edu.au/mech2004/ e-mail: kdisney@mail.newcastle.edu.au
IFAC Workshop Real Time Programming – WRTP 2004	September 6 – 8	Istanbul Turkey	http://www.enre.umd.edu/iwss2004/ e-mail: Jose.Hurtado@umd.edu
IFAC/(IFIP/IFORS/IEA) Symposium 9 th Analysis, Design, and Evaluation of Human-Machine Systems – HMS 04	September 7 – 9	Atlanta GA, USA	http://www.isye.gatech.edu/IFAC-HMS2004 e-mail: sheila.devezin@isye.gatech.edu
IFAC Workshop 5th Time Delay Systems	September 8 – 10	Leuven Belgium	http://www.cs.kuleuven.ac.be/conference/tds04/ e-mail: tds04@cs.kuleuven.ac.be
IFAC Symposium 11 th Automation in Mining, Mineral and Metal Processing – MMM 2004	September 8 – 10	Nancy France	http://www.cran.uhp-nancy.fr/ifac-mmm2004/ e-mail: mmm2004@cran.uhp-nancy.fr
IFAC Workshop 2 nd Advanced Fuzzy/Neural Control	September 16 – 17	Oulu Finland	http://www.ntsat.oulu.fi/ e-mail: office@atu.fi
IFAC Workshop Discrete Event Systems	September 22 – 24	Reims France	http://www.univ-reims.fr/wodes04 e-mail: wodes04@univ-reims.fr
IFAC Workshop Generalized Solutions in Control Problems GSCP-2004	September 24 – 26	Pereslavl-Zalessky Russia	http://www.botik.ru/PSI/CPRC/GSCP2004 e-mail: gscp@cprc.botik.ru
IFAC Workshop Modelling and Control for Participatory Planning and Managing Water Systems	Sep. 29 – Oct. 1	Venice Italy	http://www.elet.polimi.it/IFAC_TC_Environment/Venice2004 e-mail: venice2004@elet.polimi.it
IFAC Workshop Automatic Systems for Building the Infrastructure in Developing Countries: Regional and Global Aspects (DECOM – TT)	October 3 – 5	Bansko Bulgaria	http://hsi.iccs.bas.bg/decom04/ e-mail: decom04@hsi.iccs.bas.bg
SCS/IFAC Conference Advances in Vehicle Control and Safety – AVCS	October 28 – 31	Genova Italy	http://www.liophant.org/i_m_scs/i3m2004/avcs/ e-mail: rachid@u-picardie.fr
IFAC Conference Management and Control of Production and Logistics – MCPL-2004	November 2 – 5	Santiago Chile	http://www.uamericas.net/MCPL2004 e-mail: mcpl@uamericas.cl
IFAC Workshop Programmable Devices and Systems PDS-2004	November 18 – 19	Cracow Poland	http://pds2004.iele.polsl.gliwice.pl e-mail: pds2004@iele.polsl.gliwice.pl
IFAC Workshop Intelligent Assembly and Disassembly – IAD'2004	November 18 – 20	Vienna Austria	http://www.ihr.tuwien.ac.at/iad04/ e-mail: han@ihr.tuwien.ac.at
IFAC Symposium System Structure and Control	December 8 – 10	Oaxaca Mexico	http://sssc04.cinvestav.mx e-mail: jtorres@cinvestav.mx

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Implicit Fault-tolerant Control: Application to
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Book Reviews

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A. Serrani
Optimal Control, an Introduction, by Arturo
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A Convex Optimization Approach to the Mode
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Comments on "On the Equivalence of Causal LTI
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D.H. Owens, E. Rogers
Author's Reply to Comments on "On the
Equivalence of Causal LTI Iterative Learning
Control and Feedback Control"

Book Review

Nonlinear System Identification – Input-output
Modelling Approach, Vols 1 and 2, by R. Haber
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