

Call for papers

17th International Conference on

Methods and Models in Automation and Robotics

27 – 30 August 2012

Amber Baltic Hotel, Międzyzdroje, Poland



IEEE Robotics and Automation Society

IEEE Control Systems Society

IFAC Non Linear Control Systems

IFAC Mechatronic Systems

Committee of Automation and Robotics **Polish Academy of Sciences**

Polish Society for Measurement, Automatic Control and Robotics (Polish NMO of IFAC)

Organized by Faculty of Electrical Engineering,
West Pomeranian University of Technology in Szczecin

The conference proceedings will be available on IEEE Xplore

For more information see <http://www.mmar.edu.pl>

WELCOME

It is our great pleasure to invite You to participate in the 16th International Conference on Methods and Models in Automation and Robotics, MMAR 2012 to be held in Międzyzdroje, Poland, from August 27nd to August 30th, 2012.

The Conference will be a good opportunity for highlighting the new results and directions of Automatic Control theory, technology and applications. As such, it mainly will concentrate on the following key points:

- Emphasis on invited lectures including plenaries,
- Industry participation promotion,
- Attract young people to study and work in the field.

The participants of the 17th International MMAR Conference will have the opportunity to take part in the wide spectrum of categories for technical presentations, including plenary lectures, regular papers of both lecture and poster session types, and panel discussion. We look forward to seeing our old and New friends in Poland. You are kindly invited to participate in the 17th International MMAR Conference in Międzyzdroje, Poland.

Prof. Zbigniew Emirsajłow
Chairman of the MMAR 2012 Organizing Committee
Faculty of Electrical Engineering
West Pomeranian University of Technology in Szczecin

INTRODUCTION

The 17th International Conference on Methods and Models in Automation and Control (MMAR'2012) is to be held August 27-30, 2012 in Miedzyzdroje (Poland). The conference aims to bring together engineers and scientists from academia, research institutes and industry so that they can discuss the latest developments and

requirements in traditional and non-traditional areas of Automation and Robotics.

Technical programme will include a broad range of topics covering new theoretical and technological developments and applications in:

- linear and non-linear predictive control
- robust and adaptive control
- networked control systems
- fuzzy logic, neural networks and intelligent control
- modelling and identification
- distributed parameter systems
- discrete events and hybrid systems
- cooperative, coordinated and decentralized control
- computer aided control systems design and other computational aspects
- marine and aerospace guidance and control
- advanced process control
- fault detection, diagnosis and fault tolerant control
- recent drive systems in robotics
- kinematics and dynamics of robots
- mathematical foundations of robotics
- motion planning and algorithms
- human-robot interaction
- advanced robotics
- robot control modeling
- nonholonomic systems
- sensory feedback in robots, visual systems feedback
- various applications of robotic systems
- hybrid control in robotics

Apart from plenary and invited sessions the programme will also include invited and tutorial sessions, panel discussions, software demonstrations and hardware displays.

SUBMISSION OF PAPERS AND PROPOSALS FOR INVITED SESSIONS

Detailed instructions on preparation of your papers. can be found at

<http://mmar2012.e-papers.org/>

Persons wishing to organize an invited session related to the main topics of the Conference should submit a proposal stating the topic of the session, briefly describing its scope and justifying its inclusion in the Conference Program.

The proposal should contain the title, a short abstract with three keywords for each contribution, the name, affiliation, postal and e-mail addresses, fax and telephone numbers of each proposed speaker.

LANGUAGE

The official language of the Conference is English.

Activities

A social program for participants and accompanying persons is planned. Further details will be announced in due course.

PAYMENT

The Conference registration fee, covering the costs of Conference Proceedings, reception, lunches, dinners and access to all social events.

INTERNATIONAL PROGRAM COMMITTEE

T. Kaczorek (PL) Chairman

K. Kozłowski (PL) Co-Chairman

A. Bartoszewicz (PL) Co-Chairman

P. Albertos (E)

F. Allgöwer (D)

M. Ange (SG)

P. J. Antsaklis (USA)

H. Aschemann (D)

S. Arimoto (J)

S. Bańka (PL)

M. Bodson (USA)

P. Dario (I)

S. Domek (PL)

Z. Emirsajłow (PL)

E. Fornasini (I)

T. Fukuda (J)

K. Gałkowski (PL)

A. Giua (I)

M. Grimble (UK)

H. Hashimoto (J)

J. Kacprzyk (PL)

R. Kaszyński (PL)

J. Klamka (PL)

D. Kocur (SK)

M. Krstic (USA)

J. Kurek (PL)

J. Korbicz (PL)

A. Kowalewski (PL)

A. Krzyżak (CAN)

V. Kučera (CZ)

B. Lampe (D)

I. Lasiecka (USA)

K. Latawiec (PL)

J. Levine (F)

K. Malinowski (PL)

J. L. Martins de Carvalho (P)

E. Mosca (I)

T. Nambu (J)

H. Nijmeijer (NL)

G. Oriolo (I)

D. H. Owens (UK)

B. Pasik-Duncan (USA)

I.R. Petersen (AUS)

E. Rogers (UK)

T. Samad (USA)

C. Samson (F)

J. Sasiadek (CAN)

R. Scattolini (I)

B. Siciliano (I)

J. Sokołowski (F)

M. Spong (USA)

O. Staffans (FIN)

S. Sugano (J)

R. Tadeusiewicz (PL)

P. Tatiewski (PL)

K. Tchoń (PL)

M. Tomizuka (USA)

S. Townley (UK)

T. Uhl (PL)

M.E. Valcher (I)

J. Węglarz (PL)

W. Winiecki (PL)

S. Yuta (J)

L. A. Zadeh (USA)

LOCAL ORGANIZING COMMITTEE

Z. Emirsajłow (PL) Chairman

R. Kaszyński (PL) Co-Chairman

T. Barciński (PL)

P. Dworak (PL)

J. Piskorowski (PL)

DEADLINES

12 March 2012 23:59 (GMT -0700) Submission of draft papers

18 May 2012 Notification of acceptance

29 June 2012 Author registration and payment
Submission of camera-ready papers

27 August 2012 Conference desk opening at Amber
Baltic Hotel

Secretariat - Addresses

J. Jończyk

MMAR 2011 Conference Secretariat

Faculty of Electrical Engineering

West Pomeranian University of Technology, Szczecin

Sikorskiego 37

70-310 Szczecin, Poland

www: www.mmar.edu.pl

e-mail: mmar@mmar.edu.pl