IFAC International Federation of Automatic Control
Secretariat: Schlossplatz 12, A-2361 Laxenburg, Austria
Phone (+43 2236) 71 4 47, Fax (+43 2236) 72 8 59, E-mail: secretariat@ifac-control.org – URL: http://www.ifac-control.org

2013
No. 1
Feb.

Newsletter

Contents:

The Tables of Contents of the IFAC Journals can be found respectively at

Automatica
http://www.elsevier.com/locate/automatica

Control Engineering Practice
http://www.elsevier.com/locate/conengprac

Engineering Applications of Artificial Intelligence
http://www.elsevier.com/locate/engappai

Journal of Process Control
http://www.elsevier.com/locate/jprocont

Annual Reviews in Control
http://www.elsevier.com/locate/arcontrol

Journal on Mechatronics
http://www.elsevier.com/locate/mechatronics

IFAC-PapersOnLine and Academic Indices

Search and citation engines are being increasingly used in the academic community as a means for information retrieval and also for the quality assessment of research results. Consequently, publishing in journals and conference proceedings that are well placed in academic indices has become a major factor in a researcher's career. IFAC is well aware of this fact, and is pursuing efforts to have all the papers published in proceedings from IFAC events indexed in the most important indices in its field of interest. The requirement that all papers appearing in IFAC Proceedings have been peer-reviewed as full draft papers is a first step in this direction.

IFAC Proceedings dating back from 2007 are published in IFAC-PapersOnLine (**www.ifac-papersonline.net**), an open on-line archive website which is is operated in partnership with Elsevier. IFAC papers can be cited and retrieved by means of internationally accepted identifiers: the ISSN 1474-6670 for the whole IFAC Proceedings series, an ISBN for each Proceedings volume, and a DOI for each individual paper. These keys enable all IFAC papers to be uniquely identified and retrieved in search engines, thus making it possible for indexing engines to locate them.

Google Scholar, an open access web search engine that includes the most relevant academic journals and conference proceedings series, automatically indexes all papers published in IFAC-PapersOnLine. This makes IFAC papers easily found by researchers looking for reference publications, and increases the chances for them to be cited by other authors.

IFAC-PapersOnLine is also indexed in Scopus and Engineering Index (EI). Scopus is a subscription-based service run by Elsevier that includes abstracts, citations, and links to papers from nearly 20 000 journals and conference proceedings series worldwide. Engineering Index, also known as Compendex, is currently part of Engineering Village, which was acquired by Elsevier some years ago.

A third prominent search and citation engine is Thomson ISI's Web Of Science (WoS). WoS is a scientific database including more than 12 000 journals and over 150 000 conference proceeding volumes. Only a few IFAC Proceedings volumes are currently indexed by ISI, but IFAC is undertaking conversations with Thomson in order to have all the contents of IFAC-PapersOnLine indexed as well.

Juan A. de la Puente
Editor-in-Chief, IFAC-PapersOnLine

Calls for Nominations for Journal Paper Awards

All IFAC Journals (with the exception of Annual Reviews in Control) award prizes at the IFAC World Congresses for the best Journal papers published in the past triennium.

The Call for Nominations for the Automatica Paper Prize 2014 is now available on the IFAC website at

http://www.ifac-control.org/news/2014-automatica-paper-prize-call-for-nominations-1

The other four Journals will publish their respective Calls for Nominations on their website addresses as shown on the left.

International Stability and Systems Engineering - SWIIS 2012

IFAC Conference

Waterford, Ireland, 11 - 13 June 2012

The IFAC Conference on International Stability and Systems Engineering (SWIIS 2012) was held at the Waterford Institute of Technology, in Ireland on 11-13 June 2012. It was organized and hosted by the INSYTE Centre for Information Systems of the Waterford Institute of Technology sponsored by the IFAC Technical Committee 9.5 on Technology, Culture and International Stability (SWIIS/TECIS). Additional sponsors included the Science Foundation of Ireland.

The event attracted 48 participants from 18 countries. Overall 32 papers were presented at the event and there were three "no shows". The conference included 11 sessions. Research by women represented one third of all the presentations. Furthermore, half of the papers were presented by postgraduate and young researchers new to IFAC.

Some female delegates at SWIIS 2012

The sessions comprised a good mix of theory and applications, as well as visionary work set out in a panel discussion session and a plenary session. Former IFAC president Professor Tibor Vamos opened the conference with a keynote presentation examining the role of human systems in the information society. A second keynote paper in the opening session was presented by Dr. David Martin, CEO of M-CAM Inc., Chair of Economic Innovation for the UN-Affiliated Intergovernmental Renewable Energy Organisation and founder of the Global Innovation Commons. His keynote paper set out the clear implications of the failure of Adam Smith's economic vision as a kind of control problem. We learned how M-CAM were developing new systems which were based upon a new formula for sustainable, controlled economic development. His paper was highly visionary, challenging and rather sobering in light of the economic and environmental instabilities we have been experiencing. Prof. (em) Peter Kopacek of Technical University of Vienna reviewed important developments in robotics and explored their implications for engineering ethics. Prof. Karamjit Gill explored human-machine symbiotics since the 1970s and reflected on developments in neuroscience as a route towards a holistic symbiosis between human and machine systems.

Presentations included the use of internet-based supply-chain systems in criminal human trafficking networks and how these systems can be combated, the impact of control and automation systems development processes in high growth economies and case studies of optimal management network topologies in CIMM architectures. Artificial intelligence in policy formation was explored, as well as important policy gaps in Africa and the implementation of e-Agriculture in less developed regions. New empirical research on Micro-finance technologies for the control of financial activity in the Cameroon was presented. Tuesday opened with a special session on Engineering Ethics organised by Dr. Marion Hersh with presentations from both academia (for example Professor Alan Cottey of the Scientists for Global Responsibility (SGR)) and industry (Josef Bogdan Lewoc of BPBiT Leader in Poland).

A session on future oriented e-Health control and automation systems included global, internet-based care architectures based upon wearable applications, privacy systems for psychiatric monitoring in developing countries and a case study of the successful application of telemedical systems after a major conflict.

On the international stage system risk has gained considerable attention. There was a session on System Complexity and Risk addressing disaster recovery and new theoretical models for the effective management of system risk.

Service engineering contributions included low-cost, internet-based control of service robots which offer an important opportunity for the care of people living in very marginalised and remote communities. A paper from IBM India and WIT Ireland looked at effective large-scale complex systems implementations using lean-Sigma. Hungarian research explored problems and solutions associated with message representation in internet-based knowledge sharing and service automation.

A Human and Machine Intelligence session set out policy-development applications of machine intelligence, the use of social media in providing online semi-automatic learning solutions in marginalised communities and the use of machine-based musical intelligence systems to improve communications across cultural boundaries.

The panel discussion set out contributions from outside of control and automation systems engineering. This session provided a platform for further discussion of possible new trajectories for IFAC research.

Dr. Larry Stapleton, NOC Chair

Dr. Stapleton, Dr. Martin and Prof. Smith
Speaking with the Irish Radio at SWIIS

Women in Engineering

As a strong advocate for science, technology, engineering and mathematics (STEM) research and education, and a strong advocate for women in STEM disciplines I am thrilled to see that the IFAC is taking this new challenge to bring more visibility and recognition to its female members and to attract more women.

I have been involved in national and international activities to promote women in professional organizations where the activism of myself and others have a strong positive effect on the careers of women. Making connections among different disciplines in STEM education has been always my passion. Advocating and promoting women in STEM disciplines around the globe has been my mission. Control engineering as a field has a great potential to attract the future generation. It is a field that spans beautifully and powerfully science, technology, engineering and mathematics; control engineering with its cross boundary nature and its technology and almost universal presence in solving complex world problems to benefit humanity is an attractive field for young people.

I have found that the IFAC can serve as a global platform for attracting women, by bringing a strong visibility and recognition for women in engineering. Intensive studies everywhere around the world show that attracting women to STEM disciplines has been a true challenge. I have treated this invitation as a great opportunity to reconnect with so many colleagues in the network built to support women in engineering. I have received a large flow of resources that provide all kinds of data related to women in engineering or broadly in STEM and the analysis of this data.

We are all aware that a large gender gap exists. Women are underrepresented in engineering fields around the world with women making roughly 10% of engineers, according to the 2009 Global Women in Engineering survey by the UK Resource Centre for Women in Science, Engineering and Technology. That percentage has remained relatively constant for the past few years. Many studies focus on trying to understand why women continue to remain underrepresented and whether this really matters. What can be done to close the gap?

It would be tremendously beneficial for the IFAC to engage all 51 NMOs in the project focused on statistics for Women in Engineering at all levels of studies but also at the workplaces in academia and in industry in their countries and their professional organizations. It would be meaningful to make comparisons among countries and among world regions. Let us engage women in control in this important analysis and let us engage them also in mentoring and advising through our educational activities to serve as role models for other women and let us try to make significant changes in the statistics of women in IFAC.

It seems to me that the entire professional world is currently involved in the issues focused on women in engineering. There are very many great resources for statistics for Women in Engineering. All of them demonstrate the same: women are underrepresented in some engineering fields more than in others. Bio- and biomedical engineering fields have been experiencing stronger interest among women than electrical and mechanical engineering fields. A similar phenomenon can be noted between biology which attracts more women than physics does. Multiple studies show that women are attracted to careers that benefit humanity. Some of our new technical committees will provide new opportunities for women to be involved and engaged.

ctd. p. 6

Robot Control - SYROCO 2012
IFAC Symposium (10th)
Dubrovnik, Croatia, 5 - 7 September 2012

The 10th IFAC Symposium on Robot Control (SYROCO 2012) was held in Dubrovnik, Croatia, from 5 to 7 September 2012. It was organized by the Croatian Society for Communications, Computing, Electronics, Measurement and Control – KoREMA (http://www.korema.hr/) and the Centre of Research Excellence for Advanced Cooperative Systems – ACROSS (http://across.fer.unizg.hr). SYROCO 2012 was sponsored by the IFAC Technical Committee on Robotics (TC 4.3) and co-sponsored by the IFAC Technical Committee on Mechatronic Systems (TC 4.2), and the IFAC Technical Committee on Control Design (TC 2.1) as well as the Ministry of Science, Education and Sports of the Republic of Croatia and the University of Zagreb, Faculty of Electrical Engineering and Computing.

SYROCO has been held every three years since 1985 allowing researchers to become acquainted with the latest accomplishments and innovations in advanced control of robotic systems. Robot control technology is widely used for space, surgery, rehabilitation, micro machine, entertainment, underwater, civil engineering, professional and domestic services, security etc. As the robot control technology will continue to play an increasing role in the areas of robot-robot and human-robot cooperation in various dynamic scenarios, „Robot Control in Dynamic Cooperative Scenarios“ was chosen as the primary topic for the SYROCO 2012.

In our view, 145 accepted and presented papers, authored by 376 authors from 34 countries (selected from a submission pool of 186 papers authored by 443 authors from 39 countries), are a testimony to an increasing appeal of the symposium. Each paper was evaluated by two independent expert reviewers and by a member of the International Program Committee (IPC) or National Organising Committee (NOC). SYROCO 2012 was supported by a large IPC with 64 members from 22 countries. The SYROCO 2012 technical program was divided into twenty three regular oral sessions and five invited sessions, which were arranged in four parallel tracks for the three days of the Symposium. Contributions on basic research as well as on relevant applications were included in the technical program. These contributions covered a wide range of topics related to robot control technology, and provided an accurate picture of the state of the field at the present time. The ten most common keywords were: Mobile robots and vehicles, robot control (adaptive, robust, learning), sensory based robot control, modeling and identification, humanoid robot, multi cooperative robot control, force and compliance control, telemanipulation, professional and domestic services and networked robots.

The technical program of the Symposium also included four invited plenary lectures given by distinguished professors. The first one, entitled “Probabilistic Techniques for Mobile Robot Navigation” presented by Professor Wolfram Burgard (University of Freiburg, Germany) outlined major challenges of probabilistic approaches as the most powerful approaches to highly relevant problems in mobile robotics including robot state estimation and localization. The second lecture “New Directions of iSpaces in Cognitive Info-Communication and Personal Mobility based on Robotics” presented by Professor Hideki Hashimoto (Chuo University, Japan) described the concept of Intelligent Spaces which have functions of understanding environments by networking sensors and serving people by using Mechatoronics/Robotics devices. The third lecture “Human-Centered Robotics” given by Professor Oussama Khatib (Stanford University, USA) focussed on the ongoing effort to develop human-centred robotic systems that combine the essential characteristics of safety, interactivity, and performance with emphasis on (i) human-friendly design concepts and novel sensing modalities; (ii) compliant whole-body control strategies; and (iii) human-inspired behaviours through synthesis of human motion and skills. The forth lecture “Active Vision for Object Manipulation” presented by Professor Danica Kragić (Royal Institute of Technology - KTH, Sweden) addressed some of the most important challenges and outlined some of the results of her long-term work in the area of vision based sensing and control.

Danica Kragic - KTH Sweden

Moreover, a special plenary session from industry was scheduled on September 6, 2012, where three companies (Dok-Ing, Ltd. and HSTec, Inc. from Croatia and PPM AS from Norway) presented their research and development activities related to robotics.

To conclude, it can be said that the 10th IFAC Symposium on Robot Control (SYROCO 2012) had a very high level of attendance (170 participants from 31 countries), with a very active participation in technical activities and the general feeling we got from attendees’ comments has been very positive. The participants appreciated the technical program as well as the social one and were very happy with the quality of the presentations and the friendly atmosphere. Of course, the success of the SYROCO 2012 is the result of the effort of many people. On behalf of the NOC and IPC, we would like to thank all the authors, IPC members, NOC members, reviewers, and participants for their contributions, and also the session chairs and co-chairs for conducting the technical sessions and providing valuable feedback on their development. We are also grateful to the volunteers who contributed to the organization.

Further details about the Symposium including the final program (with paper abstracts) and a picture gallery of the event can be found at the web page http://www.syroco2012.org.

Ivan Petrović, NOC Chair
Péter Korondi, IPC Chair

Distributed Estimation and Control in Networked Systems
IFAC Workshop
Santa Barbara, CA, USA
14 - 15 September 2013

The 3rd IFAC Workshop on Distributed Estimation and Control in Networked Systems (NECSYS’12) was held at the Fess Parker Doubletree Resort in Santa Barbara, California, USA on 14-15 September 2012. The workshop was organized, hosted, and partly sponsored by the Center for Control, Dynamical-systems and Computation (CCDC) and Institute for Collaborative Biotechnologies (ICB) in the College of Engineering at the University of Santa Barbara, California (UCSB).

The workshop was organized in a non-traditional format with 10 plenary sessions and 3 technical poster sessions. This non-traditional format was in keeping with the NECSYS tradition: the similar format (a large number of invited speakers and interactive presentations for all contributed papers) was adopted for NECSYS’09 in Venice, Italy, and NECSYS’10 in Annecy, France. It is the strong belief of the organizers that this workshop format leads to plentiful opportunities for stimulating discussions, scientific networking and collaborations.

The workshop attracted over 100 participants from Australia, Colombia, France, Germany, Italy, Japan, Netherlands, Sweden, Switzerland, Turkey, the United Kingdom and the United States. There were 70 submitted papers, out of which 54 papers were accepted for presentation at the workshop, after a rigorous peer review process.

The list of plenary speakers, together with titles, abstracts and slides for their presentations is available at the conference website: http://necsys2012.engr.ucsb.edu/program.html
The website contains also the technical program with information about each presented poster.

The conference was opened with an introduction by Professor Francesco Bullo, who served as one of the conference co-chairs alongside Professor João Hespanha. IFAC representative Tamer Başar gave a brief history of the IFAC, and Professor Sandro Zampieri, who served as the chair of the international program committee, presented awards to those students who qualified for the Best Paper awards.

Best Student Paper Award
Prof. S. Zampieri congratulating
Mr. Ali Khanafer

ctd. p. 6

Control in Transportation Systems CTS'12,
IFAC Symposium (13th)
Sofia, Bulgaria, 12-14 September 2012

The IFAC Symposium on Control in Transportation Systems (CTS'12) was held in Sofia, Bulgaria from 12-14 September 2012, organized by the Union of Automatics and Informatics, which is the NMO of IFAC in Bulgaria

.

CTS'12 has been sponsored by the IFAC Technical Committee on Control in Transportation Systems (TC 7.4) and co-sponsored by the IFAC Technical Committees TC 1.3 Discrete Event and Hybrid Systems; TC 1.4 Stochastic Systems; TC2.4 Optimal Control; TC3.1 Computers for Control; TC 4.5 Human Machine Systems; TC7.1 Automotive Control; TC7.2 Marine Systems; TC 7.3 Aerospace; TC 7.5 Intelligent Autonomous Vehicles.

The IFAC Symposium on Control in Transportation Systems CTS'12 aimed at gathering academic and industrial experts in the field in order to present the recent research developments in the modeling, design, optimization, control and implementation of control solutions for the domain of transportation systems, to provide perspectives for the future requirements and functionalities of the control systems. The symposium is the general triennial activity of the IFAC Technical Committee TC7.4.

This IFAC CTS Symposium was the 13th in the sequence of CTS Symposia and has been carried out in conjunction with a working meeting of a COST project 1102 titled "Towards Autonomic Road Transport Support Systems," funded by the European COST program, which is an intergovernmental framework for European Cooperation in Science and Technology.

Innovative ideas, combined with the paradigm of autonomic transportation and targeted by this COST (an intergovernmental framework for European Cooperation in Science and Technology project), providing fruitful environments for researchers of the domain Control in Transportation Systems.

The application of the automatic control and associated technologies improves considerably the efficiency of the transportation systems. Better and more efficient use of the existing transportation infrastructure is targeted by the implementation of control and automation on the basics of information and communication technological solution. A set of spin-off effects resulting from the automatic control on transportation systems concerns the reduction of traffic emissions, optimization of travel time, fuel consumption, and increase of the quality of transportation services.

Transportation of people and goods has always been necessary for society. But the problems connected with transportation problems such as traffic congestion and delay cannot be resolved by simply extending the available infrastructure. Efficient exploitation of transport systems can be achieved by the application of concepts, originated from the control theory, information and communication technologies.

CTS´12 was supported by a large IPC comprised of 34 members from 16 countries. The core of the symposium were the 70 papers which were presented by their authors in 16 oral sessions. These contributions covered all technical areas of control in the transportation domain and provided an accurate picture of the state of the field at the present time. The sessions covered topics related to the transportation systems-- modeling, simulation control and optimization in transportation systems, intelligent transportation systems, automated highway systems, autonomic control in transportation systems, transport flows, intelligent and automated vehicles, freight transportation and scheduling, fault detection and reliability in transport control, parking systems, planning and scheduling. The transportation systems are addressed in air, rail, road and maritime cases. Safety and reliability was an intensively explored domain for all areas of traffic.

The number of papers submitted to the Symposium was 81 papers, meaning that the ratio of rejected papers in the reviewing process was 15%. The number of no-show papers was five, representing seven percent for the Symposium program. During the opening ceremony, the welcome addresses to the Symposium participants, sent by Minister of Regional Developments of Bulgaria and from the Vice-minister of Transport and Information Technologies of Bulgaria were read.

The accepted papers for presentation have been published in advance as hard copy volume and a CD version and they have been distributed to the registered participants. The technical program of the Symposium included four plenary lectures given by prominent professors for the areas of control of transport systems. The first plenary talk was given by assoc. prof. Giovanni Indiveri from the University of Salento, Lecce, Italy in Systems and Control Engineering Department. Currently, he is acting Chair of IFAC TC7.5 on Intelligent Autonomous Vehicles. His talk was entitled "Intelligent Autonomous Vehicles: current trends and future challenges". The key point of the presentation was the cooperation between autonomous vehicle, their internal coordination for achieving cooperative goals.

The second plenary speaker was Prof. Antonio Pascoal, full professor at the Institute for Systems and Robotics, Dynamical Systems and Ocean Robotics Laboratory, Lisbon, Portugal. Currently he is chairing IFAC TC7.2 on Marine Systems. His presentation was named "Cooperative motion planning, navigation and control of autonomous marine vehicle". The plenary talk continues to discover problems, related to the coordination and cooperation of traffic objects. The next two plenary talks have been scheduled for the next day of the Symposium.

The third plenary speaker was Prof. Markos Papageorgiou, full professor in Technical University of Crete, Greece, Department of Production Engineering and Management, Dynamic Systems and Simulation Laboratory and a former Chair of the IFAC TC 7.4. His presentation was an overview named "Freeway Traffic Control". The general conclusion made was that freeway traffic flow can be substantially improved by use of conventional technology, but the currently employed control strategies are often not sufficiently efficient or even simplistic.

The last plenary talk was prepared by coauthors Prof. Michel Flies (Ecole Polytechnique), Prof. Cedric Join (INRIA), Violina Yordanova (Groupe System du Transport) and Prof. Hassane Abouaissa from the University of Lille, all from France. The talk, "Freeway Ramp Metering Control Made Easy and Efficient," was presented by Prof. Abouaissa. The application of a new "flat" control strategy in transport systems was presented.

During the symposium representatives from Synegon Integrator Ltd from Hungary presented the project "ITS (Intelligent Transport System) Development in Budapest – The Largest Ongoing Project in the CEE Region".

The organizer team had provided excellent conditions for the Symposium participants by mean this event to be successful scientific and cross cultural meeting.

As a conclusion, the NOC of CTS'2012 received a lot of e-mails from the Symposium attendants, giving positive assessments and thanks for the organization of the Technical program of the Symposium and for it social attributes.

Todor Stoilov, NOC Chair
Petros Ioannou, IPC Chair

ctd. from p. 5

The plenary sessions addressed broad range of problems in the context of control of network systems, communications and control problems, network security, and large dynamical networks. The plenaries discussed applications to pattern formation in nanoscale systems, network coding, signal processing, power grids, and collaborative filtering. The three poster sessions were entitled „Decentralized Algorithms for Network Sensing, Control and Actuation," „Distributed and Cooperative Optimization," and „Multivehicle Systems, Interconnected Systems, and Consensus."

NECSYS 2012 was a great success, as confirmed by attendees who praised the technical schedule and organization of poster sessions. Also widely approved were the networking possibilities allowed by the enjoyable venue where the workshop was held.

Sandro Zampieri, IPC Chair
Francesco Bullo and
P. Hespanha, Conference Co-chairs

ctd. from p. 2

Women in Engineering

Some useful resources focused on statistics for women in engineering were provided by the Quanser team lead by Zuzana Fabusova, Marketing Specialist:

- Statistics on engineering degrees awarded to women in the USA: http://www.asee.org/papers-and-publications/publications/college-profiles/2011-profile-engineering-statistics.pdf
- A video posted by the University of Maryland Baltimore County - Dr. Anne Spence talks with Dr. Susan Hoban about her career, women in engineering and STEM education: http://www.youtube.com/watch?v=ItzFH1qR7yY
- An insight into the situation in Canada covered in the article published by The Globe and Mail newspaper: http://www.theglobeandmail.com/report-on-business/careers/career-advice/why-more-women-arent-becoming-engineers/article1216432/
- A recent article in the British The Guardian: http://www.guardian.co.uk/business/2012/dec/18/few-women-bosses-in-engineering-firms

I would like to take the opportunity to thank Iven Mareels, Vice-President and Chair of the Technical Board of IFAC , for very inspiring discussions on women in engineering. Finally I would wish everyone a very happy New Year. Let us call 2013 the Year of Women in Engineering.

Bozenna Pasik-Duncan

FORTHCOMING EVENTS

2013
No.1
Feb.

Title	2013	Place	Further Information
IFAC Symposium System Structure and Control	February 04 – 06	Grenoble France	http://www.gipsa-lab.grenoble-inp.fr/colloque/sssc2013/ e-mail: sssc2013@gipsa-lab.grenoble-inp.fr
IFAC Conference Biorobotics	March 27 – 29	Sakai Japan	http://ifac2013.shita.jp/index.html e-mail: not yet available
IFAC Symposium Mechatronic Systems	April 10 – 12	Hangzhou China	http://sklofp.zju.edu.cn/ifac2013/ e-mail: not yet available
IFAC Workshop Convergence of Information Technolgies and Control Methods with Power Systems	May 22 – 24	Cluj-Napoca Romania	http://icps13.conference.utcluj.ro/ e-mail: icps13@conference.utcluj.ro
IFAC Workshop Workshop on Intelligent Manufacturing Systems (IMS 2013)	May 22 – 24	São Paulo Brazil	http://www.ims2013.poli.usp.br/ e-mail: not yet available
IFAC Workshop International Stability, Technology and Culture (SWIIS 2013)	June 06 – 08	Prishtina Kosovo	http://www.ubt-uni.net/swiis2013 e-mail: kopacek@ihrt.tuwien.ac.at
American Control Conference (ACC'13) - in cooperation with IFAC	June 17 - 19	Washington, DC USA	http://a2c2.org/conferences/acc2013/
IFAC Conference Manufacturing Modelling, Management, And Control (MIM 2013)	June 19 – 21	St. Petersburg Russian Fed.	http://mim2013.org/ e-mail: noc@mim2013.org
Asian Control Conference ASCC'13 - in cooperation with IFAC	June 23 – 26	Istanbul Turkey	http://www.ascc.boun.edu.tr/ e-mail: ascc@boun.edu.tr
IFAC Symposium Intelligent Autonomous Vehicles - IFAC-IAV 2013	June 26 – 28	Gold Coast City Australia	http://www.iav2013.org/ e-mail: l.vlacic@griffith.edu.au
IEEE IFAC Workshop Robot Motion and Control (RoMoCo 2013)	July 03– 05	Warsaw Poland	http:// romoco.put.poznan.pl e-mail: waldemar.wroblewski@put.poznan.pl
IFAC Workshop Periodic Control Systems- (PSYCO'2013)	July 03 – 05	Caen France	http://psyco-2013.sciencesconf.org/ e-mail: psyco-2013@sciencesconf.org
IFAC Workshop Adaptation and Learning in Control and Signal Processing (ALCOSP 2013)	July 06 – 08	Caen France	http://www.ubt-uni.net/swiis2013 e-mail: alcosp-2013@sciencesconf.org
IFAC, IFORS, IMACS, IFIP Symposium Large Scale Complex Systems: Theory and Applications - 13th	July 07– 10	Shanghai China	http://lss2013.sjtu.edu.cn e-mail: lss2013@sjtu.edu.cn
IFAC Workshop Thermodynamic Foundations of Mathematical Systems Theory	July 14 – 16	Lyon France	http://www.lagep.univ-lyon1.fr/TFMST2013/ e-mail: TFMST2013@lagep.univ-lyon1.fr
European Control Conference (ECC 13) - in cooperation with IFAC	July 17 – 19	Zürich Swiss	http://www.ecc13.ch/ e-mail: secretariat@ecc13.ch
INSTICC/ IFAC Conference Informatics in Control, Automation and Robotics (ICINCO10th)	July 29 – 31	Reykjavík Iceland	http://www.icinco.org/ e-mail: icinco.secretariat@insticc.org
IFAC/(IFIP/IFROS/IEA) Symposium Analysis, Design, and Evaluation of Human-Machine Systems – HMS 201	August 11 – 15	Las Vegas USA	http://www.cs.wright.edu/ifac/ e-mail: not yet available
IFAC Symposium Mining, Mineral and Metal Processing (MMM 2013)	August 25 – 27	San Diego, California USA	http://www.flogen.org/MMM2013/ e-mail: fkongoli@flogen.com
IFAC Symposium Advances in Control Education - ACE 2013	August 28 – 30	Sheffield UK	http://ace2013.group.shef.ac.uk/ e-mail: ace2013@shef.ac.uk
IFAC Conference Modelling and Control in Agriculture, - Horticulture and Post Harvest Industry (AGRICONTROL 2013)	August 28 – 30	Espoo Finland	http://agricontrol2013.automaatioseura.com/ e-mail: office@atu.fi
IFAC Symposium Automatic Control in Aerospace - ACA 2013	September 02 – 06	Wuerzburg Germany	http://www7.informatik.uni-wuerzburg.de/aca2013 e-mail: aca2013@informatik.uni-wuerzburg.de

FORTHCOMING EVENTS (ctd.)

IFAC Conference Intelligent Control and Automation Science - ICONS 2013	September 02 – 04	Chengdu China	http://risit.org/icons2013 e-mail: sec.icons@gmail.com
IFAC Symposium Nonlinear Control Systems - NOLCOS	September 04 – 06	Toulouse France	http://www.laas.fr/NOLCOS2013 e-mail: nolcos2013@laas.fr
IFAC Workshop Dependable Control of Discrete Systems (DCDS 4th)	September 04 – 06	York United Kingdom	http://dcds13.net.dcs.hull.ac.uk/ e-mail: not yet available
IFAC Symposium Advances in Automotive Control AAC 2013	September 04 – 07	Tokyo Japan	http://www.sice.or.jp/IFAC-AAC2013 e-mail: ifac-aac2013@c-linkage.co.jp
IFAC Conference Management and Control of Production and Logistics – MCPL 2013	September 12 – 14	Fortaleza Brazil	http://www.cti.gov.br/mcpl2013/ e-mail: mcpl2013@cti.gov.br
IFAC Workshop Advances in Control and Automation Theory for Transportation Applications	September 16 – 17	Istanbul Turkey	http:// not yet available e-mail: not yet available
IFAC Conference Control Applications in Marine Systems CAMS 9th 2013	September 18 – 20	Minoh Japan	http:// not yet available e-mail: not yet available
IFAC Workshop Distributed Estimation and Control in Networked Systems (NecSys 4th)	September 25 – 26	Koblenz Germany	http://www.necsys2013.rub.de e-mail: necsys2013@atp.rub.de
IFAC Conference Programmable Devices and Embedded Systems PDeS 2013	September 25 – 27	Velké Karlovice Czech Republic	http://pdes-conference.eu e-mail: noc@pdes-conference.eu
IFAC/IEEE CSS Workshop Control of Systems Modeled by Partial Differential Equations (CPDE)	September 25 – 27	Paris France	http://www.cpde2013.fr/ e-mail: contact@cpde2013.fr
IFAC Symposium Telematics Application TA 3rd 2013	November 11 – 13	Seoul Republic of Korea	http:// not yet available e-mail: not yet available
ESF, SIAM IFAC Workshop Mathematical Control	December 03 – 06	Trieste Italy	http://mct.lsis.org e-mail: mct@lsis.org
IFAC Symposium Computer Applications in Biotechnology (CAB 2013)	December 16 – 18	Mumbai India	http:// not yet available e-mail: not yet available
IFAC Symposium Dynamics and Control of Process Systems (DYCOPS 2013)	December 18 – 20	Mumbai India	http:// not yet available e-mail: not yet available
Title	**2014**	**Place**	**Further Information**
19th IFAC World Congress	**August 25 – 29**	**Cape Town South Africa**	**http://www.ifac2014.org/ email: not yet available**
Title	**2015**	**Place**	**Further Information**
IFAC Symposium System Identification – SYSID 2015	October 19 – 21	Beijing China	http://not yet available e-mail: not yet available

Offenlegung:

Das Medienwerk 'IFAC Newsletter' wird als Organ der 'International Federation of Automatic Control' (IFAC) verlegt und ist Eigentum dieser Internationalen Föderation, deren Tätigkeit der Förderung von Wissenschaft und Technik automatischer Regelung und Steuerung dient. Die Föderation hat ihren Sitz in Zürich und ist nach Schweizer Recht als gemeinnütziger Verein angemeldet. Sie verfolgt weder wirtschaftliche noch praktische Ziele.

Das Sekretariat der IFAC befindet sich seit 1978 aufgrund eines Übereinkommens mit der Österreichischen Bundesregierung und mit der Österreichischen Akademie der Wissenschaften in Laxenburg und wird derzeit aus Mitteln des Bundesministeriums für Verkehr, Innovation und Technologie (BMVIT) gefördert.
Der 'IFAC Newsletter' erscheint sechsmal jährlich in englischer Sprache unter der Redaktion des Generalsekretärs der IFAC, Univ.Professor Kurt Schlacher. Die Zeitschrift dient der Information über die Aktivitäten der IFAC. Sie wird kostenlos an Abonnenten in 50 Länder versandt. Die Kosten werden von der IFAC aus Beiträgen der derzeit 51 Mitgliedsländer getragen.

Präsident der IFAC für 2011-2014 ist Prof. Ian Craig (Südafrika), Vizepräsidenten sind Prof. Iven Mareels (Australien) und Prof. Roger Goodall (Grossbritannien). Alle Funktionen werden ehrenamtlich ausgeübt.

(To our readers: To comply with the Austrian 'Media Act', every publication must contain a declaration once a year concerning ownership and purpose, as above.)

bmvit
Bundesministerium
für Verkehr,
Innovation und Technologie

Impressum:

Medieninhaber und Herausgeber:
International Federation of Automatic Control (IFAC),
Zurich
Schlossplatz 12, 2361 Laxenburg, Austria

Verlagsort und Redaktion:
Univ.Prof. Dr. tech. K. Schlacher,
Schlossplatz 12, 2361 Laxenburg

Hersteller:
Artur Schefczik & Sohn
August-Reuss-Gasse, A-1130 Wien

Editor: Kurt Schlacher
Layout: Elske Haberl
published bimonthly