



IFAC PapersOnLine Open Access and Citation Indices

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IFAC PapersOnLine
Open Access and Citation Indices

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Embedded Guidance, Navigation
and Control in Aerospace 2012
IFAC Workshop, India,
February 2012

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>

All our colleagues will know that IFAC sponsored conferences and symposia publish the contributed papers via PapersOnLine

<http://www.ifac-papersonline.net/>

This solution became necessary to manage issues around the timeliness and the costs of publishing an ever increasing volume of conference papers. By digital necessity, this transition also brought some very much needed order and uniformity to an otherwise ad hoc publication product, and certainly helped to strengthen the IFAC presence in this arena. Equally appreciated, at least I think so, is the personal benefit of not having to carry about the suitcase sized volumes we used to collect at our conferences.

It comes therefore as no surprise that since its inception, Papers-Online has been very well received by our community. This fact is clearly underscored by the number of registered, regular users and the main download statistics.

No of meetings with proceedings archived:	100
(belonging to 60 different series)	
Total no of papers:	17.866
No of registered users:	10.234
No of downloads:	79.121

Perhaps less known is that as of January 1, 2012 PapersOnLine has become the only publication outlet for IFAC sponsored conferences. Moreover, conference organisers have to comply with strict paper format regulations to ensure that the published data base is fully searchable, and complies with archival standards. As can be appreciated, maintaining a large digital repository, and keeping its content available to the current prevailing search engines, does not come for free. To meet the required technical standards the organisers are required to use PaperCept as the submission handling software which ensures that the papers are appropriately submitted, in particular that all format regulations have been adhered to. In return, as the publication meta data will be near perfect, the conference publications via PapersOnLine will be available at the time of the conference.

The copyright of the papers available via PapersOnLine belongs to IFAC, but the access policy is very generous. To quote the PapersOnLine website „The browsing and searching capabilities of

the site can be freely used by anyone. Abstracts and other basic data about the paper and the event where it was presented are also freely available. Individuals can freely download full papers in PDF up to a maximum number of 25 papers per month. Please note that registration and an IFAC-PapersOnLine account is required prior to downloading any paper.“

In essence PapersOnLine is an open access publication, for the fraction of the cost other providers charge authors for open access. This has been a real win for our community.

PapersOnLine has also had a few teething problems, as all new beginnings do. Obviously, abiding by guidelines is not always the easiest of tasks for our creative research minds, but it is equally obvious that the benefits in accessibility and searchability far outweigh this nuisance. In terms of access, and making sure our work is known, appropriately cited and recognised PapersOnLine does a great job within our own community. Its performance in the more widely used publication indices is a work in progress.

At present Google Scholar has full access to PapersOnLine and the indexing of papers in Google Scholar and derivative programs such as „Publish or Perish 3“ is progressing well. Equally the connection to Scopus has been made and the conference papers will appear in the conference index available through Scopus.

However a very popular index, the Thomson-Reuters Web-Of-Science or ISI, is still not engaged with PapersOnLine. This is an issue for many of our contributors, as indeed some countries evaluate research output based on ISI-derived bibliometrics. This is really a peculiar circumstance, as on the one hand our research is typically publicly funded, and by and large we do prefer open access publications, so why then, is our research output evaluated against a commercial index?

The whole arena of open access publishing and citation indices is in flux of course, and IFAC's PapersOnLine is but one small aspect of this complex and fast-changing world of how we evaluate and disseminate our community's progress.

By Iven Mareels
Statistics provided by Juan de la Puente



FORTHCOMING EVENTS

2012
No. 2
April

Title	2012	Place	Further Information
IFAC Workshop Navigation, Guidance and Control of Underwater Vehicles (NGCUV'2012)	April 10 – 12	Porto Portugal	http://paginas.fe.up.pt/~ngcuv2012/ e-mail: ngcuv2012@fe.up.pt
IFAC Symposium Information Control Problems in Manufacturing – INCOM 2012	May 23 – 25	Bucharest Romania	http://www.incom12.ro e-mail: incom12@cimr.pub.ro
IFAC Conference Programmable Devices and Embedded Systems – PdeS 2012	May 23 – 26	Brno Czech Rep.	http://www.pdes2012.feec.vutbr.cz/ e-mail: pdes2012@feec.vutbr.cz
IFAC Workshop Automatic Control in Offshore Oil and Gas Production	May 31 – June 1	Trondheim Norway	http://www.ifac-oilfield.no/
IFAC Conference Analysis and Design of Hybrid Systems - ADHS 2012	June 06 – 08	Eindhoven Netherlands	http://adhs12.org/ e-mail: info@adhs12.org
IFAC Conference International Stability and Systems Engineering: - SWIIS 2012	June 11 – 13	Waterford Ireland	http://www.swiis2012.com/ e-mail: admin@swiis2012.com
IFAC Workshop Dynamics and Control in Agriculture and Food Processing – DYCAF	June 13 – 16	Plovdiv Bulgaria	http://dycaf-2012.tu-plovdiv.bg e-mail: altaneva@tu-plovdiv.bg
IFAC Symposium Advances in Control Education - ACE 2012	June 19 – 21	Nizhny Novgorod Russia	http://ace2012.ru/ e-mail: ifac.ace2012@gmail.com
IFAC Symposium Robust Control Design – ROCOND	June 20 – 22	Aalborg Denmark	http://www.rocond12.org/
IFAC Conference Analysis and Control of Chaotic Systems - CHAOS 12	June 20 – 22	Cancun Mexico	http://www.ipicyt.edu.mx/Chaos12/chaos12.html e-mail: not yet available
IFAC Workshop Time Delay Systems (IFAC-TDS-2012)	June 22 – 24	Boston MA, USA	http://www.coe.neu.edu/IFACTDS2012/main.htm e-mail: not yet available
American Control Conference - in cooperation with IFAC -	June 27 – 29	Montreal Canada	http://a2c2.org/conferences/acc2012/index.php
IFAC Symposium Advanced Control of Chemical Processes - ADCHEM-2012	July 10 – 13	Singapore Singapore	http://www.adchem2012.org/ e-mail: ivan@adchem2012.org
IFAC Symposium System Identification – SYSID 2012	July 11 – 13	Brussels Belgium	http://www.sysid2012.org/ e-mail: secretariat@sysid2012.org
INSTICC/IFAC 9th Int. Conference Informatics in Control, Automation and Robotics – ICINCO 2012	July 28 – 31	Rome Italy	http://icinco.org e-mail: icinco.secretariat@insticc.org
IFAC Conference Nonlinear Model Predictive Control - NMPC 12	August 23 – 27	Noordwijkerhout Netherlands	http://www.nmpc12.tue.nl/ e-mail: nmpc12@tue.nl
17th Intl. Conference (cosponsored by IFAC) Methods and Models in Automation and Robotics – MMAR 2012	August 27 – 30	Miedzyzdroje Poland	http://http://www.mmar.edu.pl/ e-mail: mmar@mmar.edu.pl
IFAC Symposium Fault Detection, Supervision and Safety for Technical Processes – - SAFEPROCESS	August 29 – 31	Mexico City Mexico	http://safeprocess2012.unam.mx/ e-mail: SafeProcess12@iingen.unam.mx
IFAC Symposium Modelling and Control in Biomedical Systems – BMS 2012	August 29 – 31	Budapest Hungary	http://bms.iit.bme.hu/ e-mail: bms@iit.bme.hu
IFAC Workshop Lagrangian and Hamiltonian Methods for Nonlinear Control LHMNLC'12	August 29 – 31	Bertinoro (Bologna) Italy	http://www.lhmnlc12.deis.unibo.it e-mail: not yet available

FORTHCOMING EVENTS (ctd.)

IFAC Symposium Power Plants and Power Systems Control	September 02 – 05	Toulouse France	http://www.pppswc2012.org e-mail: not yet available
IFAC Symposium Robot Control – SYROCO 2012	September 05 – 09	Dubrovnik Croatia	http://www.syroco2012.org/ e-mail: syroco2012@syroco2012.org
KSAE/IFAC Symposium Advanced Vehicle Control - AVEC 12	September 09 – 12	Seoul Korea	http://avec12.ksae.org/ e-mail: avec12@ksae.org
IFAC Workshop Automation in Mining, Mineral and Metal Industries – IFAC MMM12	September 10 – 12	Gifu Japan	http://www.ifacmmm2012.org/ e-mail: info@ifacmmm12.org
IFAC Symposium Control in Transportation Systems - CTS'12	September 12 – 14	Sofia Bulgaria	http://hs27.iccs.bas.bg/
IFAC Workshop Control Applications of Optimization - CAO'12	September 13 – 16	Rimini Italy	http://cao2012.imm.uran.ru e-mail: not yet available
IFAC Workshop Distributed Estimation and Control of Networked Systems – NecSys2012	September 14 – 15	Sta Barbara CA, USA	http://necsys2012.engr.ucsb.edu/ e-mail: not yet available
IFAC Symposium Manoeuvring and Control of Marine Craft - MCMC'2012	September 19 – 21	Arenzano Italy	http://www.mcmc2012.issia.cnr.it
IFAC Workshop Generalized Statements and Solutions of Control Problems - GSSCP	September 24 – 30	Gelendzhik Russia	https://sites.google.com/site/gsscp2012/ international-workshop e-mail: gsscp-2012@yandex.ru
IFAC Workshop Discrete Event Systems – WODES	October 01 – 03	Guadalajara Mexico	http://www.gdl.cinvestav.mx/wodes-12 e-mail: wodes2012@gdl.cinvestav.mx
IFAC Workshop Discrete Event System Design – DeSD	October 01 – 04	Campos do Jordao Brazil	http://www.desdes.uz.zgora.pl e-mail: DESDes@iie.uz.zgora.pl
IFAC Workshop Multi Vehicle Systems – MVS	October 03 – 05	Espoo Finland	http://mvs2012.aalto.fi/ e-mail: mvs2012@aalto.fi
IFAC Workshop on Engine and Powertrain Control Simulation and Modelling	October 23-25	Paris France	http://www.ecosm12.org
Latin American Control Conference – LACC- - in cooperation with IFAC	October 23 – 26	Lima Peru	http://congreso.pucp.edu.pe/clca-2012/
IFAC Workshop Maintenance for Dependability, Asset Management and PHM - A-MEST	November 22 – 23	Seville Spain	http://www.amest2012.com/ e-mail: adolfo@us.es
Title	2013	Place	Further Information
IFAC Symposium System Structure and Control	February 04 – 06	Grenoble France	http:// not yet available e-mail: not yet available
IFAC Conference Biorobotics	March 27 – 29	Sakai Japan	http:// not yet available e-mail: not yet available
IFAC Symposium Mechatronic Systems	April 10 – 12	Hangzhou China	http:// not yet available e-mail: not yet available
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
IFAC/(IFIP/IFROS/IEA) Symposium Analysis, Design, and Evaluation of Human-Machine Systems – HMS 201	August 11 – 15	Las Vegas NV, USA	http:// not yet available e-mail: not yet available
IFAC Symposium Advances in Control Education - ACE 2013	August 28 – 30	Sheffield UK	http://ace2013.group.shef.ac.uk/ e-mail: not yet available
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
IFAC Symposium Nonlinear Control Systems - NOLCOS	September 04 – 06	Toulouse France	http://www.laas.fr/NOLCOS2013 e-mail: nolcos2013@laas.fr
IFAC Conference Management and Control of Production and Logistics – MCPL 2013	September 12 – 14	Fortaleza Brazil	http:// not yet available e-mail: not yet availalbe
Title	2014	Place	Further Information
19th IFAC World Congress	August 25 – 29	Cape Town South Africa	http://www.ifac2014.org/ email: not yet available

Embedded Guidance, Navigation and Control in Aerospace 2012

IFAC Workshop

Bangalore, India, 13 - 15 February, 2012



The IFAC workshop on Embedded Guidance, Navigation and Control in Aerospace (EGNCA) was held in the Department of Aerospace Engineering, Indian Institute of Science, Bangalore, from 13-15 Feb 2012. The IFAC Technical Committee (TC) in Aerospace (TC 7.3) was primarily responsible in organizing this workshop, which was also supported by TC 2.1 Control Design, TC 2.2 Linear Control Systems, TC 2.4 Optimal Control and TC 2.5 Robust Control.

The Automatic Control and Dynamic Optimization Society (ACDOS), which is a newly formed society as well as the Indian NMO of IFAC, hosted this event. Prior to the formal establishment of ACDOS, this event was hosted by the French NMOs, i.e. SEE and G&R MACS, which eventually co-sponsored the event as well. In addition to ACDOS, the following list of institutes and organizations co-sponsored this event financially, which helped in organizing this event successfully.

- Indian Institute of Science (IISc), Bangalore, India
- Defense Research & Development Organisation (DRDO), India
- Indian Space Research Organisation (ISRO), India
- AFOSR-AOARD, AFRL, USA
- Elissar Global, USA
- Optimal Synthesis Inc, USA

EGNCA-2012 was the first IFAC event in India after a gap of more than 25 years and it excited a lot of interest, both within India as well as from all over the world. The president of IFAC, Prof. Ian Craig was kind enough to come and inaugurate this event. The inaugural function was also attended by other high dignitaries such as Prof. Houria Siguerdjane, Chair of IFAC TC in Aerospace, Prof. M. S. Bhat, Chair of ACDOS, Mr. Avinash Chander, Chief Controller R&D (MSS)

of DRDO, India, Prof. K. Chattopadhyay, Chairman, Division of Mechanical Sciences, IISc, Dr. P. K. Menon, IPC Vice-chair of EGNCA-2012 as well as Prof. Radhakant Padhi, NOC chair of EGNCA-2012 and Vice-president of ACDOS.

This workshop offered a quality technical content to participants. In summary, there were three plenary talks, six keynote talks and 40 contributed papers. The plenary speakers included Mr. Avinash Chander, DRDO, India, Dr. K. Schilling, Wurzburg Univ., Germany and Prof. I. M. Ross, NPS, USA. The keynote talks were delivered by Prof. K. D. Mease, UC-Irvine, USA, Mr. S. Chetty, NAL, India, Dr. P. K. Menon, OSI-USA, Prof. A. Tsourdos, Cranfield Univ., UK, Dr. P. S. Goel, ISRO, India and Prof. D. Ghose, IISc, India. The plenary and keynote talks covered a wide variety of industrial and academic topics and were quite informative. Of contributed papers, there were 48 submissions in total, out of which 41 were accepted after a rigorous review process. One paper was withdrawn and hence the workshop contained 40 contributed papers. Almost all papers were presented in the workshop as well with only one no-show. In addition to the technical sessions, there was a lab visit within the Dept. of Aerospace Engineering as well as a dedicated technical visit to the National Aerospace Laboratories (NAL), Bangalore. There was a formal cultural visit to the ISKON temple as well.

EGNCA 2012 was attended by 109 registered participants, including 85 participants from different parts of India and 24 participants from various countries that included USA, UK, France, Germany, Spain, Russia, South Africa, Australia and Saudi Arabia. A formal technical meeting of IFAC TC 7.3 (Aerospace) was also held on 14 Feb 2012, in which a variety of topics were discussed and some important decisions were taken about the future activities of the TC.

Overall, EGNCA 2012 was a highly successful event. The members of ACDOS are convinced that it has paved the way for many more such exciting IFAC events in India in the future.

Radakhant Padhi, Vice-President of ACDOS

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