

New IFAC Membership Fee Categories Introduced

IFAC is pleased to announce the introduction of two new membership categories. The aim of this development is to broaden the IFAC membership base, making it easier for economically challenged countries to maintain IFAC national member organizations (NMOs). A Council Task Force was set up to identify the required constitutional amendments to accommodate the new membership categories approved by the IFAC Council in August 2014.

The IFAC General Assembly voted overwhelmingly in favour of adopting these amendments by way of a postal ballot that was due on 29 May 2015. Applications for membership of IFAC can now be made in three categories (current annual membership fee of the new categories are in brackets):

Ordinary membership category (this category contains four designated sub-categories)

Category	Membership Fee €
Category 1	1500
Category 2	3000
Category 3	6000
Category 4	12000

Newly introduced categories

Reduced-fee membership category (€500)

Introductory membership category (€150)

The ordinary membership category is the same as the previously existing membership category and

the vast majority of IFAC NMOs belong to this group. The membership fees for the newly introduced membership categories are substantially less than the fees for the ordinary membership category, and as a result the NMOs in the reduced-fee and introductory membership categories have restricted rights as detailed in the IFAC By-Laws. The main restrictions are as follows.

Member Organizations in the reduced-fee membership category are not eligible to bid for an IFAC World Congress or an IFAC Symposium. Member Organizations in the introductory category can only propose Technical Committee members, but cannot propose nominations for other IFAC positions. Furthermore, Member Organizations in the introductory category can attend the IFAC General Assembly as observers, but are not eligible to vote.

Which countries are eligible for the new membership categories? The reduced-fee membership category applies only to NMOs from countries for which the gross domestic product and the gross domestic product per capita fall outside of the top fifty, where countries within the top fifty have the largest gross domestic product and/or gross domestic product per capita. The introductory membership category applies only to countries for which no NMO has been a member of IFAC for the last three years.

Please assist the IFAC Council by using your networks to identify countries for which these new membership categories make it possible to establish NMOs. The IFAC Secretariat is as always willing to assist should you require more information concerning membership categories.

Submitted by Ian Craig, IFAC Immediate Past-President and Chair, New Membership Categories Council Task Force.

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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 mit der Österreichischen Akademie der Wissenschaften in Laxenburg.

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 49 Mitgliedsländer getragen.

Präsident der IFAC für 2014-2017 ist Prof. Janan Zaytoon (Frankreich), Vizepräsidenten sind Prof. Sergio Bittanti (Italien) und Prof. Francis C. Doyle III (USA). 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.)

Introducing the 2011 – 2014 IFAC Fellows

Last in a series

Carlos Emanuel de Souza

Carlos E. de Souza was born in João Pessoa, Brazil. He received the B.E. degree in Electrical Engineering from the Federal University of Pernambuco, Brazil in 1976 and the doctoral degree from the University Pierre & Marie Curie, Paris, France, in 1980. From 1980-1984 he was an assistant professor at the Department of Electrical Engineering, Federal University of Uberlândia, Brazil. In 1985 he joined the Department of Electrical and Computer Engineering, University of Newcastle, Australia, where he was through 1997. Since 1998, he has been a professor at the Department of Systems and Control, National Laboratory for Scientific Computing (LNCC/MCTI), Petrópolis, Brazil, and served as head of the Department of Systems and Control and Director of the Research Center for Control of Dynamic Systems (2000-2006).

Prof. de Souza has held long-term visiting positions at the Laboratoire d'Automatique de Grenoble (France), the National Laboratory for Scientific Computing (Brazil), and the University of Newcastle (Australia). He has also held numerous short-term visiting appointments at universities in several countries, including the USA, France, Switzerland, Israel, Australia, and Brazil. In addition de Souza was associated editor of the IMA Journal of Mathematical Control and Information and of the International Journal of Robust and Nonlinear Control (IJRNC), Guest Editor of the IJRNC Special Issue on H-infinity and Robust Filtering, and member of the Editorial Board of the IJRNC and the IEE Proceedings Control Theory & Applications.



In addition de Souza served as a member of the Council of the Brazilian Space Agency (as the representative of the scientific community), Chairman of the IFAC Technical Committee on Linear Control Systems (2002-2005), and as a member of the IFAC Council for the term 2005-2008.

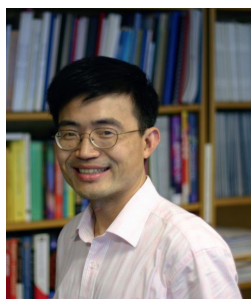
In addition to being an IFAC Fellow, Professor de Souza is an IEEE Fellow, a Fellow of the

Brazilian Academy of Sciences and a Fellow 1A of the Brazilian National Research Council (CNPq). He was a distinguished lecturer of the IEEE Control Systems Society for 2004-2008. His research interests include stability analysis, robust control, robust filtering, time-delay systems, two-dimensional systems, and Markov jump systems. He has published over 250 peer-reviewed scientific papers and as of September 2013 his journal papers have received 4330 citations in the Web of Science with an h-index of 34 (ISI ResearcherID No. A-6676-2009).

Zhong-Ping Jiang

Zhong-Ping JIANG received the B.Sc. degree in mathematics from the University of Wuhan, Wuhan, China, in 1988, the M.Sc. degree in statistics from the University of Paris XI, France, in 1989, and the Ph.D. degree in automatic control and mathematics from the Ecole des Mines de Paris, France, in 1993. Currently, he is a Professor of Electrical and Computer Engineering at the Polytechnic Institute of New York University.

Jiang's main research interests include stability theory, robust, adaptive and distributed nonlinear control, adaptive dynamic programming and their applications to information, mechanical and biological systems. He is coauthor of the book Stability and Stabilization of Nonlinear Systems (with Dr. I. Karafyllis, Springer 2011).



Prof. Jiang is a Fellow of the IEEE and has served as an Editor or Associate Editor for several journals, including the International Journal of Robust and Nonlinear Control, Mathematics of Control, Signals and Systems (MCSS), IEEE Transactions on Automatic Control, and Science China: Information Sciences.

In addition Jiang is a recipient of the prestigious Queen Elizabeth II Fellowship Award from the Australian Research Council, the CAREER Award from the U.S. National Science Foundation, and the Distinguished Young Overseas

Chinese Researcher Award from the NSF of China. Recent awards recognizing his research work include the Best Theory Paper Award (with Y. Wang) at the 2008 WCICA, and the Guan Zhao Zhi Best Paper Award (with T. Liu and D. Hill) at the 2011 CCC, and the Shimemura Young Author Prize (with his student Yu Jiang) at the 2013 Asian Control Conference in Istanbul, Turkey.

Check out IFAC's YouTube channel for new and historical IFAC video materials!

The link to the YouTube channel can be accessed via the IFAC website,
www.ifac-control.org

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>

Nonlinear Analysis: Hybrid Systems

<http://www.elsevier.com/locate/naahs>

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INCOM 2015

11-13 May 2015

Ottawa, Canada

The 15th IFAC Symposium on Information Control Problems in Manufacturing (INCOM 2015) was held May 11-13, 2105 in Ottawa, Canada. The Symposium was sponsored by Technical Committees of the IFAC Coordinating Committee on Manufacturing and Logistics Systems (IFAC CC 5). The technical co-sponsors were four other IFAC TCs (TC 1.3, TC 4.2, TC 4.3, and TC 9.2), IEEE Robotics and Automation Society, IFIP, IFORS, and GDR MACS/CNRS (French National Council for Scientific Research).

Professor Alexandre Dolgui of École des Mines de Saint-Étienne (France) chaired the International Program Committee in charge of the peer review process. 601 papers from 52 countries were submitted. About 360 papers were presented in regular, invited and poster sessions, and over 60 papers in special session that aimed at the presentation of recent industrial results. More than 470 people from 47 countries participated in the symposium, with Canada and France represented by more than 100 participants each.



Banquet, INCOM 2015

The technical program of INCOM 2015 was organized around the following tracks: Supply Network Design and Management, Logistics and Transport, Production System Design and Optimization, Production Planning and Control, Industry 4.0, Quality, Reliability, and Maintenance, Automation and Control, Decision Support and Optimization, and Manufacturing. Five exceptional keynote talks were delivered. Professor Detlef Zuehlke of DFKI (Germany) discussed the Industrie 4.0 initiative in the context of future manufacturing paradigms. Professor Richard D. Braatz of MIT (USA) presented recent advances in biopharmaceutical manufacturing. New advances in production planning and scheduling were presented by Professor Mike Pinedo of NYU (USA). Professor David Simchi-Levi of MIT (USA) talked about the top-

ics of risk identification and disruption mitigation in the automotive supply chain. Professor Dan Zhang of the University of Ontario (Canada) gave an insight into recent developments and applications of parallel robotic manipulators.

An Industrial Panel on “Service Engineering in Industrial Companies: challenges, opportunities and solutions”, organized by Prof. Sergio Cavalieri (IT) and Dr. Zied Ouertani (DE), brought together experts from industry, academia, and government to discuss recent transformations of the manufacturing industry in the digital era.

Three workshops concluded the technical program. They were: *Additive Manufacturing and 3D Printing*, *Business Innovation Management: Methodology and Tools*, and *Manufacturing Systems Engineering: Fundamental Issues and Case Studies*.

The conference activities were held at the Shaw Centre (Ottawa Convention Centre) in downtown Ottawa, one of the most walking- and biking-friendly cities in Canada. The conference coincided with several tourist events, in particular with the Tulip Festival.

The conference banquet took place at the spectacular Grand Hall of the Canadian Museum of History on the Quebec side of the Ottawa River. With its curving, six-storey window wall and unrivalled view of Parliament Hill, the Grand Hall is one of Canada’s most impressive indoor public spaces. Banquet participants could view magnificent totem poles and historical artifacts related to the history and cultures of the First Peoples of Canada’s Pacific Coast.

Graduate students had the opportunity to attend the Doctoral Consortium on the second day of the Symposium. The Consortium, very well received by the participants, provided a forum for stimulating discussions on these topics, scientific networking and collaborations.

The quality of the technical presentations and the friendly atmosphere made the IFAC INCOM 2015 an unqualified success. The Steering Committee proposed at its meeting that the next edition of INCOM take place in Bergamo, Italy.

Submitted by Prof. Marek Zaremba, Université du Québec (UQO), INCOM 2015 General Chair.

PDeS 2015

13-15 May 2015

Crakow, Poland

The IFAC and IEEE Programmable Devices and Embedded Systems Conference (PDeS) took place from 13- 15 May in Cracow, Poland. It gathered 93 participants coming from 11 countries (Europe, Asia, Africa).

After careful review process there were selected 83 papers from 112 delivered. They were presented during 15 sessions. The Conference hosted two special tracks devoted to Medical Cyber-Physical Systems for Home Telemonitoring and Modern Techniques of Design and Implementation of Highly Flexible Controllers. Each day of Conference was enhanced by two keynote lectures that separate sessions.

Cracow is an excellent place for scientific meeting but also for social activities. In the afternoons and evenings participants enjoyed the sightseeing (e.g. Salt Main Wieliczka – Unesco monument, Cracow guided tour) and meeting with local folklore.

The next PDeS event is planned to take place in the late summer of 2016 in Czech Republic. The details will be published on the conference site (<http://pdes.polsl.pl> or <http://pdes-conference.eu>).

Submitted by Adam Milik,
Institute of Electronics
Silesian University of Technology of Gliwice.

The 2016 IFAC Council and Related Meetings is scheduled to be held in Istanbul, Turkey from June 22-24, 2016, in conjunction with the 6th IFAC Symposium on System Structure and Control - SSSC 2016, jointly with the 13th IFAC Workshop on Time Delay Systems - TDS 2016.

Further information will follow.

Calendar of IFAC Events

Title	2015	Place	Further information
4th IFAC Workshop on Engine and Powertrain Control, Simulation and Modeling E-COSM 2015	August 23 – 26	Columbus, OH USA	https://e-cosm2015.engineering.osu.edu/ e-mail: not yet available
10th IFAC Conference on Manoeuvring and Control of Marine Craft MCMC 2015	August 24 – 26	Copenhagen Denmark	http://www.conferencemanager.dk/mcmc2015/ e-mail: secretariat@mcmc2015.dk
4th IFAC Workshop on Mining, Mineral and Metal Processing MMM 2015	August 25 – 27	Oulu Finland	http://ifacmmm2015.automaatioseura.fi/ e-mail: office@automaatioseura.fi
4th IFAC Conference on Analysis and Control of Chaotic Systems CHAOS 2015	August 26 – 28	Tokyo Japan	http://ctrl.mech.se.tmu.ac.jp/chaos2015 e-mail: chaos2015@ctrl.mech.se.tmu.ac.jp
11th IFAC Symposium on Robot Control SYROCO 2015	August 26 – 28	Salvador, BA Brazil	http://www.syroco2015.org/ e-mail: syroco2015@ece.ufrgs.br
9th IFAC Symposium on Biological and Medical Systems BMS 2015	Aug. – Sept. 31 – 02	Berlin Germany	http://www.bms2015.org e-mail: info@bms2015.org
9th IFAC Symposium on Fault Detection, Supervision and Safety of Technical Processes SAFEPROCESS 2015	September 02 – 04	Paris France	http://safeprocess15.sciencesconf.org/ e-mail: contact@safeprocess2015.fr
SAFER, IFAC, IEEE, ITSC Symposium on Future Active Safety Technology Towards zero traffic accidents FAST-zero	September 09 – 11	Gothenburg Sweden	http://fastzero15.net/ e-mail: info@fastzero15.net
5th IFAC Workshop on Distributed Estimation and Control in Networked Systems NecSys 2015	September 10 – 11	Philadelphia, PA USA	http://necsys2015.seas.upenn.edu/index.html e-mail: not yet available
5th IFAC Conference on Nonlinear Model Predictive Control NMPC 2015	September 17 – 20	Sevilla Spain	http://disa.us.es/nmpc15/ e-mail: d1m@us.es
IEEE IFAC Multi-Conference on Systems and Control MSC 2015	September 21 – 23	Sydney Australia	http://www.msc2015.org/ e-mail: info@msc2015.org
16th IFAC Conference on Technology, Culture and International Stability TECIS 2015	September 24 – 27	Sozopol Bulgaria	http://www.tecis.tu-plovdiv.bg/ e-mail: tecis@tu-plovdiv.bg
16th IFAC Workshop on Control Applications of Optimization CAO 2015	October 06 – 09	Garmisch-Partenkirchen Germany	http://cao2015.de/ e-mail: Stefan.pickl@unibw.de
1st IFAC Workshop on Linear Parameter Varying systems LPVS 2015	October 07 – 09	Grenoble France	http://www.gipsa-lab.fr/LPVS2015/ e-mail: lpvs2015@gipsa-lab.grenoble-inp.fr
5th IFAC Conference on Analysis and Design of Hybrid Systems ADHS 2015	October 14 – 16	Atlanta, GA USA	http://adhs15.gatech.edu/ e-mail: magnus@gatech.edu
17th IFAC/IEEE/CSS Symposium on System Identification SYSID 2015	October 19 – 21	Beijing China	http://sysid2015.info/index.html e-mail: secretariat@sysid2015.info

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Title	2015	Place	Further information
OTM – DOA Institute IFAC Workshop on Enterprise Integration, Interoperability and Networking EI2N 2015	October 28 – 29	Rhodes Greece	http://www.onthemove-conferences.org/index.php/ei2n2015 e-mail: secr@onthemove-conferences.org
3rd IFAC Workshop on Internet Based Control Education IBCE 2015	November 04 – 06	Brescia Italy	http://ibce15.unibs.it/ e-mail: ibce15@unibs.it
Eng. Australia and others Conference on Australian Control Conference (in cooperation with IFAC) AUCC 2015	November 05 – 06	Gold Coast Australia	http://www.aucc.org.au/AUCC2015/ e-mail: not yet available
7th INSTICC (SCITEPRESS) IFAC International Conference on Computational Intelligence IJCCI 2015	November 12 – 14	Lisbon Portugal	http://www.ijcci.org/ e-mail: ijcci.secretariat@insticc.org
12th European EACD/IFAC Workshop on Advanced Control and Diagnosis ACD 2015	November 19 – 20	Pilsen Czech Republic	http://acd2015.zcu.cz/ e-mail: acd2015@kky.zcu.cz
9th IFAC Symposium on Control of Power and Energy Systems CPES 2015	December 09 – 11	New Delhi India	http://www.cpes2015.org/ e-mail: info@cpes2015.org

Title	2016	Place	Further information
4th ACDOS IFAC IEEE (MadrasSection&BangaloreSection) Conference on Advances in Control and Optimization of Dynamical Systems ACODS 2016	February 01 – 05	NIT Tiruchirappalli India	http://acods2016.nitt.edu/ e-mail: acods.2016@nitt.edu
7th IFAC Conference on Management and Control of Production and Logistics MCPL 2016	February 22 – 24	Bremen Germany	http://www.ldic-conference.org/ e-mail: not yet available
14th IFAC Symposium on Control in Transportation Systems CTS 2016	May 18 – 20	Istanbul Turkey	http://www.cts2016.itu.edu.tr/ e-mail: not yet available
4th IFAC Conference on Intelligent Control and Automation Sciences ICONS 2016	June 01 – 03	Reims France	http://icons2016.univ-reims.fr/ e-mail: icons2016@univ-reims.fr
11th IFAC Symposium on Advances in Control Education ACE 2016	June 01 – 03	Bratislava Slovakia	http://www.ace2016.sk/ e-mail: info@ace2016.sk
11th IFAC Symposium on Dynamics and control of process systems, including biosystems DYCOPS 2016	June 06 – 08	Trondheim Norway	http://dycops2016.org/ e-mail: dycops2016@itk.ntnu.no
2nd IFAC/IEEE CSS Workshop on Control of Systems Governed by Partial Differential Equations CPDE 2016	June 13 – 15	Bertinoro Italy	http://www.cpde2016.org/ e-mail: cpde2016@gmail.com
8th IFAC Symposium on Advances in Automotive Control AAC 2016	June 20 – 23	Kolmården Wildlife R. Sweden	http://aac2016.isy.liu.se/ e-mail: aac2016@isy.liu.se
13th IFAC Workshop on Time Delay Systems TDS 2016	June 22 – 24	Istanbul Turkey	http://www.tds2016.itu.edu.tr/ e-mail: not yet available
6th IFAC Symposium on System Structure and Control SSSC 2016	June 22 – 24	Istanbul Turkey	http://www.tds2016.itu.edu.tr/ e-mail: not yet available

Calendar of IFAC Events

Title	2016	Place	Further information
8th IFAC/IEEE and others Conference on Manufacturing Modelling, Management and Control MIM 2016	June 28 – 30	Troyes France	http://mim2016.utt.fr/ e-mail: mim2016@utt.fr
12th IFAC Workshop on Adaptation and Learning in Control and Signal Processing ALCOPS 2016	June – July 29 – 01	Eindhoven Netherlands	http://alcosp2016.wtb.tue.nl/ e-mail: not yet available
6th IFAC Workshop on Periodic Control Systems PSYCO 2016	June – July 29 – 01	Eindhoven Netherlands	http://psyco2016.wtb.tue.nl/ e-mail: not yet available
9th IFAC/IEEE RAS Symposium on Intelligent Autonomous Vehicles IAV 2016	June – July 29 – 01	Messe Leipzig Germany	http://iav2016.inf.h-brs.de/ e-mail: paul.ploeger@h-brs.de
20th IFAC Symposium on Automatic Control in Aerospace ACA 2016	August 21 – 25	Sherbrooke, Québec Canada	http://aca2016.ngcaerospace.com/ e-mail: aca2016@ngcaerospace.com
10th IFAC Symposium on Non-Linear Control Systems NOLCOS 2016	August 23 – 25	Monterey, CA USA	https://www.math.ucdavis.edu/static/conferences/nolcos_2016/ e-mail: NOLCOS2016@math.ucdavis.edu
13th IFAC/IFIP/IFORS/IEA Symposium on Analysis, Design, and Evaluation of Human-Machine Systems HMS 2016	Aug. – Sept. 30 – 02	Kyoto Japan	http://www.syn.me.kyoto-u.ac.jp/IFACHMS2016/ e-mail: sec-ifachms2016@me.kyoto-u.ac.jp
17th IFAC and others Symposium on Mining, Mineral and Metal Processing MMM 2016	Aug. – Sept. 31 – 02	Vienna Austria	http://www.ifacmmm2016.org/ e-mail: contact@ifacmmm2016.org
7th IFAC and others Symposium on Mechatronic Systems MECHATRONICS 2016	September 05 – 08	Loughborough United Kingdom	http://www.mechatronics2016.lboro.ac.uk/ e-mail: mechatronics2016.lboro.ac.uk
9th EUROSIM IFAC Congress on Modelling and Simulation EUROSIM 2016	September 12 – 15	Oulo Finland	http://eurosims2016.automaatioseura.fi/ e-mail: office@automaatioseura.fi
10th IFAC Conference on Control Applications in Marine Systems CAMS 2016	September 13 – 16	Trondheim Norway	http://www.ntnu.edu/cams2016 e-mail: not yet available
1st IFAC Workshop on Control and Computers WOCO 2016	October 18 – 20	Valencia Spain	http://not yet available e-mail: not yet available
3rd IFAC/IFIP WG 5.7/ESRA Workshop on Advanced Maintenance Engineering, Service and Technology AMEST 2016	October 19 – 21	Biarritz France	http://ifac-amest16.com/ e-mail: not yet available
4th IFAC Symposium on Telematics Applications TA 2016	November 06 – 09	Porto Alegre - RS Brazil	http://not yet available e-mail: not yet available
20th IFAC World Congress 2017	July 09 – 14	Toulouse France	http://www.ifac2017.org/ e-mail: contact@ifac2017.org

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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“ gefordert.



Bundesministerium
für Verkehr,
Innovation und Technologie