



INTERNATIONAL FEDERATION
OF AUTOMATIC CONTROL

International Federation of Automatic Control

IFAC

Information

Aims

Structure

Activities
edition 2016

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This IFAC Information Brochure is addressed to you, as a professional, theorist, engineer, researcher, student, or representative of a technical society, interested and active in the broad field of Automatic Control. In the pages to follow you can find some useful information about IFAC, the International Federation of Automatic Control, including its aims, activities, outputs, organization, as well as some information about the people currently serving the Federation on a voluntary basis. Regularly updated information can be accessed at our webpage <http://www.ifac-control.org>

Message from the IFAC President

It is a great honour and privilege for me to address you as the 21st President of IFAC and to inform you about our activities. I would also like to invite you to participate in our Federation, an experience that many in our profession have found to be highly rewarding and enjoyable.



Founded in Paris in 1957, IFAC is the worldwide organization tasked with promoting the science and technology of automatic control in all systems, whether for example, engineering, physical, biological, social or economic, in both theory and application. IFAC is also concerned with the impact of control technology on society.

IFAC's greatest strength is in its people and the volunteers who devote so much of their time to make IFAC function as well as it does. Maintaining the highest technical level of scientific excellence is a major priority for IFAC. This is achieved through the technical excellence of our events and publication and technical committees, and excellence in terms of the efficiency and effectiveness of our secretariat and administrative systems and processes.

The next IFAC triennial World Congress will be held in Toulouse, France from 9-14 July 2017 (<http://www.ifac2017.org>). It will be the occasion to celebrate the 60th Anniversary of IFAC. Plan now to participate in what promises to be a highly rewarding, memorable and enjoyable event. In the meantime, come to other IFAC events and/or contribute to our journals. Join a Technical Committee in your field of expertise. You are bound to find your participation in IFAC's activities professionally and personally rewarding.

Structure

The membership of IFAC consists of National Member Organizations (NMOs) who are responsible for furthering the aims and objectives of IFAC within their respective countries. IFAC provides NMOs with an international visibility of its scientific and industrial community as well as fruitful and rewarding international participation of its members to IFAC, whilst at the same time preserving local customs in the development of their activities.

Individuals can participate in IFAC in many ways: as Affiliates who receive the Newsletter; as Technical Committee Members through nomination either by the NMO or by the Technical Committee Chair; as members of the International Program Committees of IFAC events; as authors of papers for IFAC events; as Executive Committee Members; as attendees of IFAC events; as authors, reviewers, and editors of the IFAC journals; and, ultimately as officials of IFAC.

Events

Promotion of the science and technology of automatic control and all of its technical, educational and social implications is of paramount importance for IFAC. This is achieved mainly by organizing and sponsoring technical meetings, and through technical publications. IFAC organizes about 40 high-quality technical meetings per year, whose scheduling, scope, and ways of participation can be accessed through our webpage. Technical meetings are proposed by NMOs, sponsored by one or more of the 39 IFAC Technical Committees, reviewed and approved by the IFAC Technical Board. Every third year, IFAC organizes a World Congress. Papers presented at IFAC technical meetings are published, in partnership with Elsevier, on the IFAC-PapersOnLine website, at no cost to the event organizers. Papers archived in this form can be viewed and downloaded at no cost, and can be cited using the site ISSN, the event ISBN, and the individual paper DOI (digital object identifier). In 2015, PapersOnLine will be moved to ScienceDirect with the aim of further extending its indexing coverage.

Journals

A fundamental role in the dissemination of automatic control science and technology is also achieved by IFAC through the editorship of seven prestigious archival journals: Automatica, Control Engineering Practice, Annual Reviews of Control, Journal of Process Control, Engineering Applications of Artificial Intelligence, Mechatronics, and Nonlinear Analysis: Hybrid Systems. These are known as IFAC Journals and published in partnership with the official IFAC publisher, Elsevier.

Awards

Extraordinary contributions to automatic control science and technology are acknowledged by IFAC in various ways. Lifetime contributions, with either a theoretical or practical emphasis, are honoured by means of the Giorgio Quazza and Nathaniel Nichols medals, awarded every third year. The High Impact Paper award acknowledges the impact of a paper published in any of the official IFAC journals. The Industrial Achievement award is presented to an individual, or a team of individuals, who has made a significant contribution to industrial applications of control. Distinguished individuals may be honored by the Council as IFAC Fellows. This recognition is given triennially to a restricted number of individuals who have made outstanding and extraordinary contributions in the fields of interest of IFAC as engineers/scientists, technical leaders or educators. The relevance of education is emphasized through the Harold Chestnut Control Engineering Textbook Prize. At the time of the triennial World Congress, the best research articles published in each IFAC journal, with the exception of Annual Reviews of Control, are acknowledged and awarded. The best papers presented at the Congress in the area of applications, by a young author, or as an interactive paper, are also awarded. Long-term service to the Federation is recognized by the Outstanding Service Award, and by presidential appointment of a restricted number of individuals as IFAC Advisors. Other awards for young contributors will also be established during the current triennium.

Boards and Committees

The Technical Board relies on the highly competent efforts of more than 2000 volunteers, and is responsible for managing the technical activities of the Federation. Its main purpose is to manage the portfolio of IFAC technical meetings. In addition, the Technical Board advises the Council on all technical matters related to technical meetings, publications, and the technical contents of the Triennial Congress. It is also responsible for reviewing the technical activities of IFAC.

The Executive Board coordinates and supervises the executive activities of IFAC through various Executive Committees. It also coordinates the external relations of the Federation, including applications for IFAC membership. The Awards Committee regulates and controls all award-related activities; The Policy Committee advises the Council on matters of general policy, long-range planning, and the external relations of the Federation; the Publications Committee regulates and controls all IFAC publications; The Administrative and Finance Committee is responsible for directing the work of the Secretariat and controls the use of IFAC funds in accordance with the budgets approved annually by the Council.

The IFAC Council conducts the day-to-day business of the Federation, having been empowered to do so by the General Assembly, which is composed of all NMOs. You are more than welcome to approach members of the Council electronically, or in person at an IFAC meeting, to discuss any issue related to IFAC activities. Please also feel free to contact me at janan.zaytoon@univ-reims.fr about any matter pertaining to IFAC. The most important goal of IFAC is to serve all of you who are part of the large Automatic Control community.



Janan Zaytoon

University of Reims Champagne-Ardenne
President of IFAC

January 2015

1. WHAT IS IFAC, WHAT ARE ITS AIMS?

The International Federation of Automatic Control, founded in September 1957, is a multinational federation of National Member Organizations (NMOs), each one representing the engineering and scientific societies concerned with automatic control in its own country.

The purpose of the Federation is to promote the science and technology of control in the broadest sense in all systems, whether, for example, engineering, physical, biological, social or economic, in both theory and application. IFAC is also concerned with the impact of control technology on society.

The primary objective of the Federation is to serve all those concerned with the theory and application of automatic control and systems engineering, wherever situated. To further this aim, it maintains working relationships with other organizations, national and international, especially with other non-governmental professional organizations.

IFAC provides a framework for collaboration between those working in automatic control and systems engineering, irrespective of race, creed or colour, or of geographic location, and promotes free exchange of ideas and experts within its professional fields.

The Federation does not become involved in any kind of political activity, nor does it take a position in any such issue.

IFAC does not take part in any commercial activity with the explicit aim to acquire financial gain.

IFAC pursues its purpose by organizing technical meetings, by publications, and by any other means consistent with its constitution and which will enhance the interchange and circulation of information on automatic control activities.

International World Congresses are held every three years. Between congresses, IFAC sponsors many symposia, conferences and workshops covering particular aspects of automatic control.

Information on activities appears on the IFAC homepage:

<http://www.ifac-control.org/>

and in the IFAC Newsletter which may be obtained free of charge from the IFAC Secretariat (secretariat@ifac-control.org) or can be downloaded from the IFAC homepage:

http://www.ifac-control.org/newsletter_archives

The official journals of IFAC are *Automatica*, *Control Engineering Practice*, *Annual Reviews in Control*, *the Journal of Process Control*, *Engineering Applications of Artificial Intelligence*, *the Journal on Mechatronics and Nonlinear Analysis: Hybrid Systems* to which one may subscribe by writing to the publisher, Elsevier Ltd. As an IFAC affiliate you are entitled to a special rate for subscription to IFAC journals. After your registration as an IFAC affiliate you can write to the following e-mail address: emeacslsm@elsevier.com and have to note that you are qualified for the IFAC special rate.

Papers presented at IFAC technical meetings are published, in partnership with Elsevier, on IFAC-PapersOnLine website, at no cost to the event organizers. Papers archived in this form can be viewed and downloaded at no cost, and can be cited using the site ISSN, the event ISBN, and the individual paper DOI (digital object identifier). In 2015, PapersOnLine will be moved to ScienceDirect with the aim of further extending its indexing coverage.

In addition, IFAC publishes Milestone Reports, technical committee and task force reports as well as brochures of particular interest, such as guidelines for organizers of workshops, symposia, conferences and congresses.

IFAC closely cooperates with many other international organizations, by mutually co-sponsoring technical meetings and conducting activities of interest to the control and automation community.

2. IFAC's VISION AND MISSION

Vision

...for IFAC to be the worldwide federation for promoting automatic control for the benefit of Humankind.

Mission

...to promote the science and technology of automatic control through technical meetings, publications and other means consistent with the goals and values of IFAC.

Goals

- Organize and sponsor high-quality technical meetings that are relevant to the automatic control community
- Be a trusted source of publication material on automatic control renowned for its technical excellence
- Help create an environment within which the automatic control community can prosper
- Provide volunteers and staff with meaningful and rewarding opportunities for career-enhancing participation in the Federation
- Help promote the benefits of automatic control among the public at large

Values

- Honesty and Integrity
- Excellence and Relevance
- Sustainability
- Diversity and Inclusivity

3. IFAC's HISTORY

In September 1956, the German VDI/VDE-Fachgruppe Regelungstechnik organized an International Conference on Automatic Control at Heidelberg. At that conference 30 participants signed a declaration in which the need to create an international organization of automatic control was clearly defined. The signatories pledged to promote the formation of national organizations, if not already existing at that time.

At the end of the Heidelberg Conference a Provisional Committee was established under the chairmanship of Victor Broida (France) to draft a constitution for the planned International Federation of Automatic Control.

On September 12, 1957, the First General Assembly convened at the constituent meeting in Paris. Delegates from 18 countries representing their national organizations assembled at the Conservatoire National des Arts et Métiers under the chairmanship of Victor Broida. They voted on the Constitution and By-Laws; they elected the first President, Harold Chestnut, as well as the members of the Executive Council; and they appointed committee chairs.

IFAC has had twenty one Presidents:

1957-1959	Harold Chestnut	(US) *
1959-1961	Aleksander M. Letov	(SU) *
1961-1963	Eduard Gerecke	(CH) *
1963-1966	John F. Coales	(UK) *
1966-1969	Pawel J. Nowacki	(PL) *
1969-1972	Victor Broida	(FR) *
1972-1975	John C. Lozier	(US) *
1975-1978	Uolevi A. Luoto	(FI) *
1978-1981	Yoshikazu Sawaragi	(JP) *
1981-1984	Tibor Vamos	(HU)
1984-1987	Manfred Thoma	(DE) *
1987-1990	Boris Tamm	(SU) *
1990-1993	Brian D.O. Anderson	(AU)
1993-1996	Stephen J. Kahne	(US)
1996-1999	Yong-Zai Lu	(CN)
1999-2002	Pedro Albertos	(ES)
2002-2005	Vladimir Kucera	(CZ)
2005-2008	Wook Hyun Kwon	(KR)
2008-2011	Alberto Isidori	(IT)
2011-2014	Ian Craig	(ZA)
2014-2017	Janan Zaytoon	(FR)

*deceased

The IFAC Secretariat has a permanent home. By invitation of the Austrian Government it has been situated in Laxenburg, Austria (south of Vienna) since 1978.

4. STRUCTURE OF IFAC

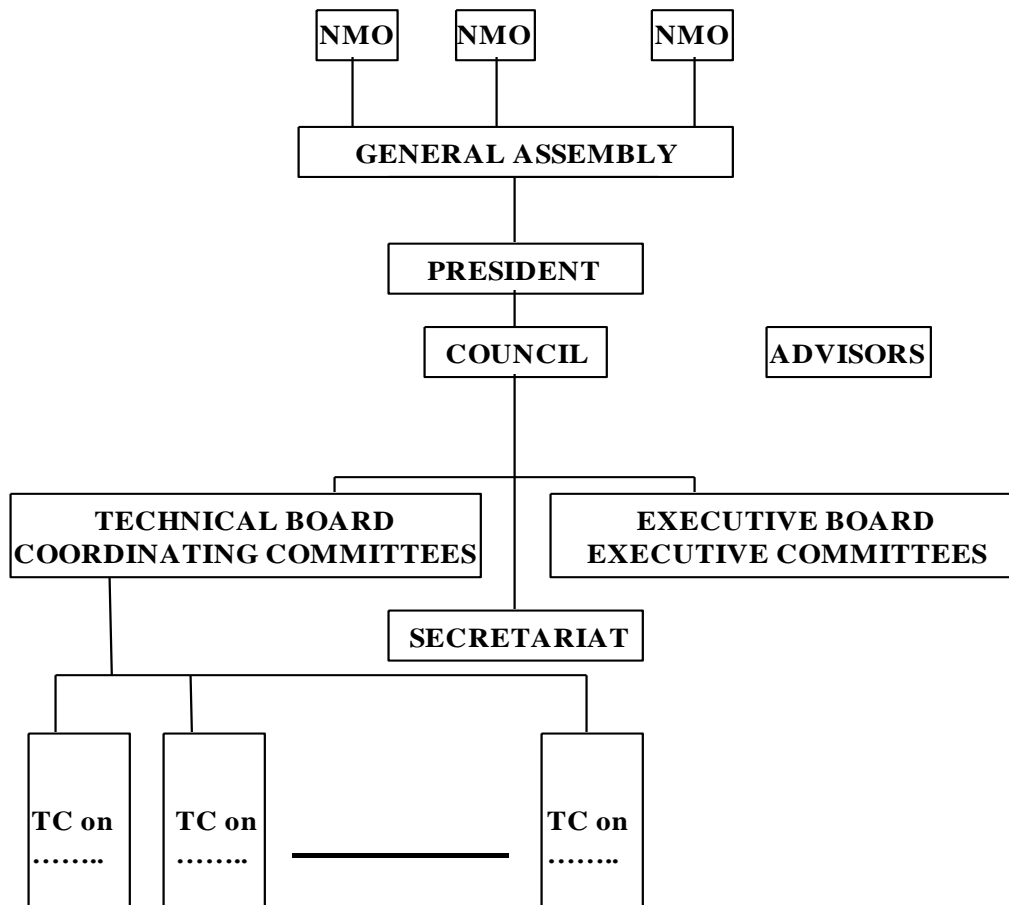
4.1 IFAC CONSTITUTION AND BY-LAWS

Copies of the Constitution and By-Laws as well as any information about IFAC and its activities are available from the IFAC Secretariat at the following address:

IFAC Secretariat
Schlossplatz 12
2361 Laxenburg, Austria
Tel: +43/2236/71447
Fax: +43/2236/72859
e-mail: secretariat@ifac-control.org
website: <http://www.ifac-control.org/about/IFAC%20Constitution-and-By-Laws.pdf/view>

4.2 ADMINISTRATIVE STRUCTURE

The structure of IFAC's administration is depicted in the following chart:



1.2 Adaptive and Learning Systems

Chair: Fouad Giri (FR)

Methods for analysis and design of control systems where model uncertainty is compensated for using adaptation and learning techniques, including adaptive state observers, adaptive parameter estimators, adaptive predictors, adaptive filters,

1.3 Discrete Event and Hybrid Systems

Chair: Yorai Wardi (US)

All aspects of analysis and control of Discrete Event Systems and Hybrid Systems.

1.4 Stochastic Systems

Chair: Subrakanti Dey (SE)

All aspects related to probabilistic and statistical methods in modelling, identification, estimation and control.

1.5 Networked Systems

Chair: Hideaki Ishii (JP)

Aspects related to control systems implemented with communication hardware and communication networks designed using control techniques.

CC2. Design Methods

CC Chair Alessandro Astolfi (UK)

2.1 Control Design

Chair: Laura Menini (IT)

Various topics in the design of feedback systems, including data-based control, fault tolerant control, switching control, supervision and computational techniques.

2.2 Linear Control Systems

Chair: Giuseppe Conte (IT)

Study and investigation on structural properties, analysis and synthesis of linear dynamical systems, including n-D, infinite dimensional, singular, positive, fractional, delayed, time and structure varying systems.

2.3 Non-Linear Control Systems

Chair: Lorenzo Marconi (IT)

Methods for analysis and design of control systems described by non-linear differential or difference equations including the application of these methods.

2.4 Optimal Control

Chair: Stefan Pickl (DE)

Methods for optimal control including large scale simulation and optimization, non-smooth and discrete optimization, optimization under uncertainties, singularities, computational networks, algorithms and IT-based decision support for the control of complex networks.

2.5 Robust Control

Chair: Fabrizio Dabbene (IT)

Modelling of systems affected by uncertainty and the development of computational techniques for analysis, optimal controller synthesis and implementation.

2.6 Distributed Parameter Systems

Chair: Thomas Meurer (DE)

Fostering methods and systematics for modeling, analysis, and control/observer design for distributed parameter systems.

CC3. Computers, Cognition and Communication

CC Chair Klaus Schilling (DE)

3.1 Computers for Control

Chair: Marga Marcos (ES)

Embedded and cyber-physical systems for real-time control with special emphasis in model-driven paradigm, modeling languages, verification & validation and certification, execution platforms including multi-core, real-time operating systems, virtualization layer for mixed-criticality systems and networks. Scheduling methods and real-time networks, as well as control techniques for computer systems.

3.2 Computational Intelligence in Control

Chair: Thierry-Marie Guerra (FR)

Focuses on all aspects of knowledge-based, fuzzy and neuro-fuzzy and neural (both, artificial and biologically plausible) systems and evolutionary algorithms relevant to control, both in theory and application driven.

3.3 Telematics: Control via Communication Networks

Chair: Ulrich Jumar (DE)

Computerized and telecommunication-based automation systems providing services to remote equipment for tele-operation, tele-maintenance, tele-medicine and tele-education, and their methodologies.

CC4. Mechatronics, Robotics and Components

CC Chair Klaus Janschek (DE)

4.1 Components and Technologies for Control

Chair: Ioan Dumitrache (RO)

Components, instruments and embedded systems for process control, perception and positioning systems, robotics and automation, environmental systems, vehicles, and human assistance. Diagnosis, data-fusion, fault tolerance, signal and image processing.

4.2 Mechatronic Systems

Chair: Reza Moheimani (AU)

The synergistic combination of precision mechanical engineering, electronic control and systems thinking in the design of products and processes.

4.3 Robotics

Chair: Peter Korondi (HU)

Robots manipulators and stationary robots, mobile and flying robots, autonomous systems, tele-robotics and internet robots. Intelligent robotics, perception and sensing, information and sensor fusion, guidance, navigation and control.

4.5 Human Machine Systems

Chair: Frederic Vanderhaegen (FR)

All conditions where humans (individuals as well as groups) use control or supervise tools, machines or technological systems.

CC5. Manufacturing and Logistics Systems

CC Chair Hervé Panetto (FR)

5.1 Manufacturing Plant Control

Chair: Marcos Tsuzuki (BR)

All applications of automation, information and communication technologies in order to control the manufacturing plant within the e-enterprise.

5.2 Manufacturing Modelling for Management and Control

Chair: Alexandre Dolgui (FR)

Models of e-manufacturing and supply chain systems, for production and service management, design, and control in communication and Internet based enterprises.

5.3 Enterprise Integration and Networking

Chair: Lawrence Whitman (US)

Enterprise-wide Internet-based working models, applications, and protocols. Mathematical control models and applications for enterprise networks. Unified enterprise modelling language.

5.4 Large Scale Complex Systems

Chair: Xiaofan Wang (CN)

Theory of complex systems, decentralized control and estimation, decision-making, hierarchical optimization and control, networked/interconnected systems, communication-based information systems.

CC6. Process and Power Systems

CC Chair Luis Bergh (CL)

6.1 Chemical Process Control

Chair: Jay H. Lee (KR)

Development of new control techniques and algorithms for application in pilot and industrial-sized plants that involve the knowledge of chemistry and, increasingly, biology.

6.2 Mining, Mineral and Metal Processing

Chair: Andreas Kugi (AT)

All aspects of modeling, automation, control and optimization in the field of mining, mineral and metal processing.

6.3 Power and Energy Systems

Chair: Kwang Y. Lee (US)

All aspects of modelling, operation, and control of power and energy systems.

6.4 Fault Detection, Supervision & Safety of Technical Processes - SAFEPROCESS

Chair: Thomas Parisini (UK)

On-line fault detection and isolation; fault decision theory; diagnosis, monitoring and supervision based on hardware and analytical redundancy.

CC7. Transportation and Vehicles Systems

CC Chair Hajime Asama (JP)

7.1 Automotive Control

Chair: Lars Eriksson (SE)

Modeling, supervision, control, and diagnosis of automotive systems, power trains, vehicle dynamic systems, automotive sensors, integrated traffic, and in-vehicle communication.

7.2 Marine Systems

Chair: Pere Ridao Rodriguez (ES)

Theory and application of control engineering and artificial intelligence techniques to the maritime field. Navigation, guidance and control, monitoring and surveillance, fault diagnosis, optimization, planning, modelling, identification, human factors and control architectures.

7.3 Aerospace

Chair: Shinichi Nakasuka (JP)

Dynamics, control, and mission control of all aeronautical and space related vehicles and vehicle systems.

7.4 Transportation Systems

Chair: Bart De Schutter (NL)

Ground transportation systems (road and guided transport) and air traffic control systems for both passengers and transported goods.

7.5 Intelligent Autonomous Vehicles

Chair: Ljubo Vlacic (AU)

Generic system methodologies and technologies applicable to intelligent autonomous vehicles including mobile robots on land, at sea, or in space.

CC8. Bio & Ecological Systems

CC Chair Jaime Alberto Moreno Pérez (MX)

8.1 Control in Agriculture

Chair: Arto Visala (FI)

Control aspects of agricultural processes. Methodologies for crop production and animal husbandry, post-harvest processes (grading, drying, storage of crops), food processing (quality and safety). Environmental and climate control of greenhouses, warehouses and animal houses, energy issues.

8.2 Biological and Medical Systems

Chair: Geoffrey Chase (NZ)

Applications of systems, modelling, informatics and control concepts, methodology and techniques in biology, physiology, medicine and healthcare.

8.3 Modelling and Control of Environmental Systems

Chair: Ronald van Nooijen (NL)

Modelling and control methodologies for reliable management of natural resources and prevention and mitigation of environmental hazards and disasters.

8.4 Biosystems and Bioprocesses

Chair: Ravi Gudi (IN)

Promotion of research and development in all major areas of biotechnology where computers are used to aid bioprocess design, supervision, diagnosis, operation, optimisation and control.

CC9. Social Systems

CC Chair Françoise Lamnabhi-Lagarrigue (FR)

9.1 Economic, Business, and Financial Systems

Chair: C. L. Philip Chen (CN)

Modelling and control of economic, management, and business systems. Optimization, decision and control in economics, business and finance. Interface between engineering and economic/business techniques and approaches.

9.2 Social Impact of Automation

Chair: Wilfrid Perruquetti (FR)

Relations between automated systems and social environments, including social effects of automation, requirements for automation development, and environmental and health implications.

9.3 Control for Smart Cities

Chair: (Samuel) Qing-Shan Jia (CN)

Promote research and education of control for smart cities, includes but is not limited to buildings, transportation systems, water system management, pollution monitoring and control systems.

9.4 Control Education

Chair: Sebastián Dormido (ES)

Education issues in control engineering. Methodology for improving the theory, practice, accessibility of control systems education. Control Engineering Textbook Prize nomination.

9.5 Technology, Culture and International Stability (TECIS)

Chair: Lawrence (Larry) Stapleton (IE)

Identification, definition, and improvement of factors which significantly influence international stability and improve its effectiveness.

4.4. EXECUTIVE COMMITTEES

The scopes of the respective Committees are as follows:

Administrative and Finance Committee (Chair: Frank Allgöwer, DE)

The Administrative and Finance Committee is responsible for directing the work of the Secretariat and controls the use of IFAC funds in accordance with the budgets approved annually by the Council.

Awards Committee (Chair: Paul Van den Hof, NL)

The Awards Committee is responsible for the management of the IFAC awards program including recommendations to the Council for award selection committees, awards planning and procedures, recommendations for initiating and terminating each award, and awards funding.

Policy Committee (Chair: Dawn Tilbury, US)

The Policy Committee advises the Council, at the Council's request or on its own initiative, on the general policy and long-range planning of the Federation, on matters concerning the relations between IFAC and other international organizations and between IFAC and its NMOs, as well as on procedural matters and guidelines related to the conduct of business within the Federation and to the organization of technical meetings.

Publications Committee (Chair: Tamer Başar, US)

The Publications Committee regulates and controls all IFAC publications in accordance with guidelines laid down by the Council, and authorizes expenditure on publications within strict budgetary limits approved by the Council.

4.5 IFAC AFFILIATES: INDIVIDUAL INVOLVEMENT IN IFAC

Anyone interested in Control Engineering may become an IFAC Affiliate. IFAC Affiliates receive the IFAC Newsletter free of charge. The Newsletter contains information about IFAC technical meetings as well as about other matters of interest to the control community. IFAC Affiliates will also receive Calls for Papers for technical meetings in their selected areas of interest and are entitled to a special rate for subscriptions to the IFAC Journals. On-line registration as an Affiliate is possible from the IFAC homepage.

For membership in a Technical Committee, there are different paths of participation. An individual may write a letter to the Secretariat, which will forward it to the respective TC Chair. A nomination may be made to the TC Chair by one's National Member Organization through the IFAC Secretariat. A person interested in participating in IFAC work may also contact the TC Chair directly.

4.6 IFAC AWARDS

The Giorgio Quazza Medal (Chair: Hidenori Kimura, JP)

The Giorgio Quazza medal recognizes outstanding lifetime contributions of a researcher and/or engineer to conceptual foundations in the field of systems and control. This IFAC award, created in 1979, is a memorial to the late Giorgio Quazza, a leading Italian electrical and control engineer who served IFAC in many capacities in a most distinguished manner. The medal is presented by the President at each IFAC Triennial Congress at the Opening Ceremony. A prize is presented to the recipient together with the medal. Medal winners have been:

-1981	John F. Coales	(UK)
-1984	Yakov Z. Tsytkin	(RU)
-1987	Karl J. Åström	(SE)
-1990	Petar Kokotovic	(US)
-1993	Edward J. Davison	(CA)
-1996	Alberto Isidori	(IT)
-1999	Brian D.O. Anderson	(AU)
-2002	Lennart Ljung	(SE)
-2005	Tamer Başar	(US)
-2008	Graham Goodwin	(AU)
-2011	Hidenori Kimura	(JP)
-2014	David Mayne	(UK)

Nathaniel B. Nichols Medal (Chair: Siva S. Banda, US)

The Nichols Medal recognizes outstanding contributions of an individual to design methods, software tools and instrumentation, or to significant projects resulting in major applications and advancement of control education. The spirit is captured by the name of Nathaniel Nichols, one of the pioneers of control engineering. The medal is awarded by the IFAC Council on the recommendation of a selection committee. A monetary prize is presented to the recipient together with the medal. Medal winners have been:

- 1996	Jürgen Ackermann	(DE)
- 1999	Gunter Stein	(US)
- 2002	Carl Nett	(US)
- 2005	William F. Powers	(US)
- 2008	Gerd Hirzinger	(DE)
- 2011	Siva Banda	(US)
- 2014	Reza Moheimani	(AU)

Manfred Thoma Medal (Chair: Brian Anderson, AU)

The Manfred Thoma medal, created in 2015, recognizes outstanding contributions of a young researcher and/or engineer under the age of 40 to the field of systems and control in its widest sense. It is named after Manfred Thoma, a leading contributor to the field of control and to IFAC, and supporter of the careers of many young scientists. The medal is awarded by the IFAC Council on the recommendation of a selection committee. A monetary prize is presented to the recipient together with the medal.

Industrial Achievement Award (Chair: Serge Boverie, FR)

This is an IFAC award to an individual, or a team of individuals, who has made a significant contribution to industrial applications of control. The award is given in technical fields covered by IFAC. The selection is based on industrial achievements measured in terms of:

- Inventions in the control area
- Engineering significance of products and projects
- Industrial leadership
- Promotion of control technology in industry
- Impact of patents
- International recognition

A monetary prize is presented to the winner or team of winners. Winners have been:

- | | | |
|--------|---|------|
| - 2002 | Yasuo Ichii, Shoji Murayama, and Takahiro Yamasaki
(of the Kawasaki Steel Corporation) | (JP) |
| - 2005 | Serge Boverie | (FR) |
| - 2008 | not awarded | |
| - 2011 | Anton van Zanten | (DE) |
| - 2014 | Giovanni Cherubini, Jens Jelitto, Mark Lantz, and Angeliki Pantazi
(of IBM Zurich) | (CH) |

High Impact Paper Award (Chair: Alberto Isidori, IT)

This IFAC Award was introduced in 2009 and first awarded in 2011. It acknowledges the impact of a paper published in any of the official IFAC journals on the broad areas of Automatic Control theory and application. A monetary prize is presented to the recipient together with a plaque.

Winners have been:

- | | | |
|--------|-----------------|------|
| - 2011 | D.Q. Mayne | (UK) |
| | J.B. Rawlings | (US) |
| | C.V. Rao | (US) |
| | P.O.M. Scokaert | (BE) |

in recognition of the high impact of the paper entitled “Constrained Model Predictive Control: Stability and Optimality,” *Automatica*, Vol. 36, pp. 789-814, 2000.

- | | | |
|--------|------------------|------|
| - 2014 | Manfred Morari | (CH) |
| | Alberto Bemporad | (IT) |

in recognition of the high impact of the paper entitled “Control of systems integrating logic, dynamics and constraints,” *Automatica*, Vol. 35, No. 3, pp. 407-427, 1999.

IFAC Fellows (Chair: Robert Bitmead, US)

This distinction was awarded for the first time at the 16th IFAC World Congress in Prague, Czech Republic in 2005. It consists of a lapel pin and a certificate and is given to individuals for outstanding and extraordinary individual contributions in the fields of interest of IFAC. The IFAC Fellow award provides a distinction of excellence in the Federation and is conferred by the IFAC Council based on the proposal of a Fellow Selection Committee, which is appointed by the President. The Fellow Selection Committee responds to nominations. At the meeting of the incoming Council in Milan in 2011, the decision was taken to change from an annual selection process to a triennial one.

The list of all Fellows elected so far can be obtained from the IFAC website at <http://www.ifac-control.org/awards/ifac-fellows>

IFAC Journal Awards

- *Automatica* Paper Prize Award
- *Control Engineering Practice* Paper Prize Award
- *Engineering Applications in Artificial Intelligence* Paper Prize Award
- *Journal of Process Control* Paper Prize Award
- *Journal of Mechatronics* Paper Prize Award
- *Nonlinear Analysis: Hybrid Systems* Paper Prize Award

The IFAC Journal Awards are given for outstanding papers published in the above IFAC journals. At each Triennial IFAC World Congress monetary prizes are presented to the authors of papers selected by the Journal Prize Awards Selection Committees. The prize funds are provided by the publisher of the IFAC Journals, Elsevier Ltd.

IFAC Congress Applications Paper Prize (Chair: Alexander B. Kurzhanski, RU)

This prize is awarded at each IFAC World Congress for the best Applications Paper.

IFAC Congress Young Author Prize (Chair: Michel Kinnaert, BE)

This prize is awarded at each IFAC World Congress for the best paper of an author (authors) younger than 35 years of age.

IFAC Congress Interactive Paper Prize (Chair: Michael Sebek, CZ)

This prize is awarded at each IFAC World Congress for the best interactive or poster paper.

Candidates for all of the above-mentioned prizes are nominated by a selection committee appointed by the Council. The prizes consist of a monetary prize and a certificate. The prize funds are provided by IFAC.

A list of prize winners for all awards is available on the IFAC website at <http://www.ifac-control.org/awards>

Harold Chestnut Control Engineering Textbook Prize

This award is presented at each Triennial Congress for the best Control Engineering textbook for which the first edition(s) occurred not later than the Congress just prior to the one at which the

award is presented. It recognizes the author(s) of the textbook(s) judged to have most contributed to the education of control engineers. The candidates for the prize are nominated by a selection committee, while the books under consideration come before the committee through recommendation of the control engineering community. The prize consists of a monetary prize and a certificate.

The funds for this prize were donated by Harold Chestnut, IFAC's first president.

IFAC Outstanding Service Award

This award is presented to IFAC officials who have served and contributed substantially to IFAC in various capacities, according to criteria set by the Council. The award consists of a certificate and a lapel pin and is presented to the candidates on the occasion of the World Congress.

4.7 FINANCES

The revenue of IFAC chiefly consists of annual membership fees paid by the NMOs and publications income from the IFAC Journals. It is used for administrative expenses as recommended by the Administrative and Finance Committee. Its recommendations are approved by the Council which is held accountable by the General Assembly for the expenses.

IFAC has three membership categories and the fees for each category are determined by the General Assembly (current annual membership fees in brackets):

- **Ordinary membership category** (€1.500/€3.000/€6.000/€12.000)
- **Reduced-fee membership category** (€500)
- **Introductory membership category** (€150)

For the Ordinary membership category, each NMO can select an appropriate fee level in the four sub-categories from €1.500 to €12.000. NMOs in the ordinary membership category must communicate to the IFAC Treasurer by October 1st of each year if they wish to change their sub-category of membership for the ensuing year.

All financial matters of IFAC are managed by the Treasurer:

Prof. John Lygeros
ETH Zurich, Automatic Control Laboratory, IfA
Physikstrasse 3, ETL I 22
8092 Zurich
Switzerland
e-mail: lygeros@control.ee.ethz.ch

4.8 IFAC SUPPORT

4.8.1 IFAC Foundation

Since 2006, the IFAC Foundation has been officially incorporated in Switzerland, following Swiss law. Its mission is to acquire, manage and distribute resources to further the scientific goals of the International Federation of Automatic Control (IFAC). The IFAC Foundation is a not-for-profit organization that accepts donations from individuals and organizations, both private and public, who wish to contribute to the mission of IFAC. Like IFAC, the goal of the IFAC Foundation is to support the development of automation and automatic control science, technology, and education which benefits the global economy and human life. The website of the IFAC Foundation is

<http://foundation.ifac-control.org/>

5. IFAC EVENTS

5.1 CONGRESSES

Triennial Congresses are organized on a worldwide scale, with attendance up to 3.000 persons. They are traditionally held in the home country of the President in office during the third year of his/her term of office.

Location and dates of IFAC Congresses are shown below:

1 st Congress	1960 Moscow	(SU)
2 nd Congress	1963 Basel	(CH)
3 rd Congress	1966 London	(UK)
4 th Congress	1969 Warsaw	(PL)
5 th Congress	1972 Paris	(FR)
6 th Congress	1975 Boston/Cambridge	(US)
7 th Congress	1978 Helsinki	(FI)
8 th Congress	1981 Kyoto	(JP)
9 th Congress	1984 Budapest	(HU)
10 th Congress	1987 Munich	(DE)
11 th Congress	1990 Tallinn	(SU)
12 th Congress	1993 Sydney	(AU)
13 th Congress	1996 San Francisco	(US)
14 th Congress	1999 Beijing	(CN)
15 th Congress	2002 Barcelona	(ES)
16 th Congress	2005 Prague	(CZ)
17 th Congress	2008 Seoul	(KR)
18 th Congress	2011 Milan	(IT)
19 th Congress	2014 Cape Town	(ZA)
20 th Congress	2017 Toulouse	(FR)
21 st Congress	2020 Berlin	(DE)

5.2 SYMPOSIA, CONFERENCES AND WORKSHOPS

In addition to the triennial IFAC World Congresses, the Federation manifests the progress of automatic control through international symposia, conferences and workshops sponsored or co-sponsored by IFAC.

An **IFAC Symposium** is a technical meeting covering a well-defined theme of control engineering. Symposia on the same subject are arranged as a regular series, usually on a triennial basis. They are organized by a host country NMO and are scientifically assisted by those IFAC Technical Committees which take an active interest in the selected topics of the meeting. Attendance usually ranges between 100 and 500 participants.

An **IFAC Conference** is a technical meeting of about the same scope and size as a Symposium but it is not necessarily part of a series of events. Conferences may also cover topics that are more specialized.

An **IFAC Workshop** is a more informal and less structured meeting than a Symposium or a Conference. It usually has a narrower scope and a more limited attendance (between 50 and 100 participants). However, provisions for the host country NMO acting as organizer, for the scientific support by the appropriate TCs and for co-sponsorship by other scientific organizations are similar to those for Symposia.

As a general rule, during the year of the Congress, there are no Symposia or Conferences, and the number of Workshops is restricted.

Information on forthcoming IFAC technical meetings can be found in every issue of the IFAC Newsletter and on the IFAC website:

<http://www.ifac-control.org/events>

To assist those involved in organizing and preparing Symposia and Workshops a booklet entitled "Procedure for the Organization of IFAC Technical Meetings" is available from the IFAC Secretariat or can be downloaded from the IFAC website:

<http://www.ifac-control.org/events/organizers-guide>

5.3 MASTERPLAN OF IFAC SYMPOSIA

Future IFAC events include the following regular symposia:

- Advanced Control in Chemical Processes (ADCHEM)
- Advances in Automotive Control (AAC)
- Advances in Control Education (ACE)
- Automatic Control in Aerospace (ACA)
- Computer Applications in Biotechnology (CAB)
- Computational Methods in Economics & Financial Systems (to be redeveloped)
- Control in Transportation Systems (CTS)
- Dynamics and Control of Process Systems (DYCOPS)
- Fault Detection, Supervision and Safety for Technical Processes (SAFEPROCESS)

- Human-Machine Systems (HMS)
- Information Control in Manufacturing (INCOM)
- Intelligent Autonomous Vehicles (IAV)
- Large Scale (Complex) Systems (LSS)
- Mechatronic Systems (MECHATRONIC)
- Mining, Mineral and Metal Processing (MMM)
- Modelling and Control of Biomedical Systems (to be redeveloped)
- Non-Linear Control Systems (NOLCOS)
- New name: Control of Power and Energy Systems (CPES) until 2012: Power Systems and Power Plants (PSPP)
- Robot Control (SYROCO)
- Robust Control Design (ROCOND)
- System Identification (SYSYID)
- System Structure and Control (SSC)
- Telematics Applications (TA)

6. IFAC PUBLICATIONS

Under the terms of an agreement between Pergamon Press Ltd (as of January 1994 Elsevier Ltd) and IFAC, Elsevier Ltd. (www.elsevier.com) is the official, sole publisher of IFAC publications. The agreement covers all of the publications listed below, with the exception of the IFAC Newsletter and reports.

- IFAC Symposium, Conference and Congress Proceedings Volumes
- IFAC Journal *Automatica*
- IFAC Journal *Control Engineering Practice*
- IFAC Journal *Annual Reviews in Control*
- IFAC Journal of *Process Control*
- IFAC Journal on *Engineering Applications in Artificial Intelligence*
- IFAC Journal on *Mechatronics*
- IFAC Journal *Nonlinear Analysis: Hybrid Systems*
- IFAC Newsletter
- IFAC Technical Committee and Task Force Reports
- Milestone Reports

The management of IFAC Publications, the IFAC - Elsevier joint publication venture, is vested in the Publications Managing Board, presently chaired by Prof. Peter Fleming (UK). All inquiries regarding IFAC Publications should be addressed to:

IFAC Publications Office
Att. Ms. Alison Waldron, PhD
Senior Publisher
Elsevier Inc.
360 Park Avenue South, 6th Floor
New York, NY, 10010, USA
e-mail: a.waldron@elsevier.com

6.1 PREPRINTS AND IFAC PapersOnLine

Preprints:

Preprints are the collection of accepted papers produced prior to a meeting for distribution at the meeting, either in printed or electronic form. Preprints provide easy access for participants to papers before or during a meeting. Preprints are provided solely for meeting participants, included as part of the registration fee. They may be available for sale, but they must not carry an ISBN, Bar Code, cataloguing details or the words "published by..." Preprints are not a publication and should not have any mark that enables them to be cited as such.

IFAC PapersOnLine:

Proceedings are the final collection of papers from an IFAC meeting. They are the only way in which papers from IFAC meetings are published. Proceedings from all IFAC events are published by IFAC, in cooperation with the IFAC publisher, on the IFAC-PapersOnLine website and are citable via an ISSN and a DOI (Digital Object Identifier), a unique industry-standard identifier assigned to every paper.

Proceedings must be published for Symposia and Conferences, but they are not mandatory for Workshops. If the organizers of a Workshop choose to publish proceedings, the same procedures as for Symposia, including peer review of full draft papers, must be followed. If the Organizers decide not to publish proceedings, they must not produce any other publication of the Workshop.

IFAC Publications and Copyright Policy

All publication material submitted for presentation at an IFAC-sponsored meeting (Congress, Symposium, Conference, Workshop) or for publication in an IFAC journal must be original and hence cannot be already published, nor can it be under review elsewhere. The authors take responsibility for the material that has been submitted. IFAC publications will abide by the highest standard of ethical behavior in the review process as explained on the **Elsevier webpage** and the **IFAC publication ethics guidelines**:

<http://www.elsevier.com/journal-authors/author-rights-and-responsibilities>

<http://www.ifac-control.org/events/organizers-guide/PublicationEthicsGuidelines.pdf/>

See also the **Vancouver protocol**, and **author information** (<http://labs.elsevier.com/blog/what-makes-an-author-authorship-contributorship-and-micro-attribution>).

Accepted papers that have been presented at an IFAC meeting will be published in the proceedings of the event using the open-access **IFAC-PapersOnLine**. To this end, the author(s) must confer the copyright to IFAC when they submit the final version of the paper through the paper submission process. The copyright allows for personal permission rights to reproduce the published paper on a personal or institutional website:

<http://www.ifac-papersonline.net/static/copyright.html>

6.2. IFAC JOURNALS

Automatica is an IFAC journal, published monthly. It is a leading archival publication in the field of systems and control, featuring a characteristic blend of theoretical and applied papers of lasting value, reporting cutting edge research results by authors across the globe. All submissions undergo a rigorous review process. The Journal features articles in distinct categories, including

regular, brief and survey papers, technical communiqués, correspondence items, as well as reviews on published books of interest to the readership.

Control Engineering Practice is IFAC's applications journal, published monthly. It contains high-quality papers which illustrate the direct application of control theory and its supporting technologies in all possible areas of automation. Papers demonstrating the contribution of automation and control in improving the performance, quality, productivity, sustainability, resource and energy efficiency, and the manageability of systems and processes for the benefit of mankind and are relevant to industrial practitioners are most welcome. All papers, whether originating from IFAC events or directly submitted, are rigorously reviewed by an international panel of referees.

Annual Reviews in Control is published twice a year, on about 200 pages. The Journal contains review articles selected from the material of the most recent IFAC symposia, conferences and workshops, and of the latest Congress. It may also carry papers specifically written for the Journal, either review papers on main methodologies or technical advances – ‘Survey papers’ or cutting-edge papers on topics that are just emerging or tend to bring together several disciplines – ‘Vision papers’.

The ***Journal of Process Control*** is published eight times per year and invites papers relating to all aspects of Chemical Process Control, including many papers arising from the regular IFAC meetings in process control. All papers are rigorously reviewed.

Engineering Applications of Artificial Intelligence is an international journal that publishes rigorously reviewed papers relating to intelligent real-time automation. It is published ten times per year. Regular special issues are published on new and emerging topics of interest.

Mechatronics is an international journal that publishes papers relating to the multidisciplinary area of design and use of advanced automated systems, where the synergistic integration of mechanics, electronics, and control plays a fundamental role. It is published ten times a year and all papers are rigorously reviewed prior to publication. Special issues are published on new and emerging topics of interest.

Nonlinear Analysis: Hybrid Systems is the IFAC journal devoted to hybrid dynamic systems, i.e., systems involving the interplay between discrete and continuous dynamic behaviors. It publishes 4 issues per year including special issues on new and emerging topics. It features regular submissions as well as papers originating from IFAC meetings. All papers are rigorously reviewed under the supervision of a Senior Editor and of an Associate Editor.

For information, inspection copies and subscriptions of all Journals, please contact

IFAC Publications, Elsevier Inc., Alison Waldron, PhD
Senior Publisher
360 Park Avenue South, 6th Floor
New York, NY, 10010, USA
e-mail: a.waldron@elsevier.com

6.3 IFAC NEWSLETTER

The IFAC Newsletter is produced bimonthly for the purpose of disseminating current information relevant to IFAC. It is sent free of charge to NMOs, IFAC Affiliates (electronically) and libraries. It contains up-to-date information about forthcoming IFAC events as well as brief announcements of other IFAC-related activities. All material proposed for publication in the IFAC Newsletter should be sent to the Newsletter Editor, Kurt Schlacher, c/o IFAC Secretariat. The latest edition of the IFAC Newsletter is available on the IFAC homepage, as well as an online archive dating back to the early 2000s.

7. NATIONAL MEMBER ORGANIZATIONS

ALGERIA

DZ

Centre for Development of Advanced Technologies (CDTA)
Prof. Dr. Brahim Bouzouia bbouzouia@cdta.dz

ARGENTINA

AR

Asoc. Argentina de Control Automático - AADECA
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AU

The Institution of Engineers, Australia
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AUSTRIA

AT

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BELGIUM

BE

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BRAZIL

BR

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BG

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CROATIA HR
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US

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For current mailing addresses and possible changes over the course of the triennium, consult the IFAC website at: <http://www.ifac-control.org/about/structure/nmo>

8. OFFICERS AND OFFICIALS OF IFAC – 2014 - 2017

8.1 COUNCIL

President	Janan Zaytoon	FR
President-Elect	Frank Allgöwer	DE
Vice-President (Technical Board)	Francis J. Doyle III	US
Vice-President (Executive Board)	Sergio Bittanti	IT
Immediate Past President	Ian K. Craig	ZA
Treasurer	John Lygeros	CH
Ordinary Members	Yaman Arkun	TR
	Jozsef Bokor	HU
	Eduardo F. Camacho	ES
	Dong-II Cho	KR
	Shinji Hara	JP
	Gennadiy Leonov	RU
	Derong Liu	CN
	Henk Nijmeijer	NL
	Radhakant Padhi	IN
	Carlos Eduardo Pereira	BR
	Ian R. Petersen	AU
	Sarah K. Spurgeon	GB

8.2 SECRETARY

Kurt Schlacher AT

8.3 TECHNICAL BOARD

Chair	Francis J. Doyle III	US	
Vice-Chairs	Tariq Samad	US	
	Ji-Feng Zhang	CN	
Ex officio	IPC Chair, IFAC 2014	Edward Boje	ZA
	IPC Chair, IFAC 2017	Didier Henrion	FR
	IPC Chair, IFAC 2020	Sandra Hirche	DE

Ordinary Members	Patrizio Colaneri	IT
(Education liaison)	Bozenna Pasik-Duncan	US
(Social Media liaison)	Jakob Stoustrup	DK
(PubCom liaison)	Masayoshi Tomizuka	US

Coordinating Committee Chairs

Hakan Hjalmarsson	SE
Alessandro Astolfi	UK
Klaus Schilling	DE
Klaus Janschek	DE
Hervé Panetto	FR
Luis Bergh	CL
Hajime Asama	JP
Jaime Alberto Moreno Pérez	MX
Françoise Lamnabhi-Lagarrique	FR

8.4 EXECUTIVE BOARD

Chair	Sergio Bittanti	IT
Immediate Past President	Ian K. Craig	ZA
Treasurer	John Lygeros	CH
Secretary	Kurt Schlacher	AT
Chair Administration & Finances C.	Frank Allgöwer	GE
Chair Awards Committee	Paul M.J. Van den Hof	NL
Chair Policy Committee	Dawn Tilbury	US
Chair Publication Committee	Tamer Başar	US

- Administrative and Finance Committee

Chair	Frank Allgöwer	GE
Vice Chair (Council Member)	Shinji Hara	JP
ex officio (Treasurer)	John Lygeros	CH
ex officio (Secretary)	Kurt Schlacher	AT
Members	Dimitri Peaucelle	FR
	Otis Nyandoro	ZA

- Awards Committee

Chair	Paul M.J. Van den Hof	NL
ex officio (Chairs of Awards Selection Committees)		
Quazza Medal	Hidenori Kimura	JP
Nichols Medal	Siva S. Banda	US
Manfred Thoma Medal	Brian Anderson	AU
Industrial Achievement Award	Serge Boverie	FR
High Impact Paper Award	Alberto Isidori	IT
Applications Paper Prize Award	Alexander Kurzhanski	RU
Young Authors Paper Prize Award	Michel Kinnaert	BE
Interactive Paper Prize Award	Michael Sebek	CZ
Automatica Paper Prize	Lennart Ljung	SE

CEP Paper Prize	Iven Mareels	AU
Mechatronics Journal	Roger Goodall	UK
EAAI Paper Prize	Shimon Nof	US
JPC Paper Prize	James Rawlings	US
NAHS Paper Prize	Jamal Daafouz	FR
Harold Chestnut Textbook Prize	Richard Murray	US
IFAC Fellow Selection	Robert Bitmead	US

- Policy Committee

Chair	Dawn Tilbury	US
Vice.Chair	Sarah K. Spurgeon	GB
Members	Jun-ichi Imura	JP
	Igor Kaliaev	RU
	Martin Moennigmann	DE
	Diego Pareschi	IT
	Bob Parker	US
	Houria B. Siguerdidjane	FR

- Publications Committee

Chair	Tamer Başar	US
Vice Chair	Masayoshi Tomizuka	US
ex off. (Chair PUMB)	Peter Fleming	UK
ex off. (E-i-C Automatica)	Roberto Tempo	IT
ex off. (E-i-C CEP)	Andreas Kugi	AT
ex off. (E-i-C ARC)	Françoise Lamnabhi-Lagarrigue	FR
ex off. (E-i-C JPC)	Denis Dochain	BE
ex off. (E-i-C EAAI)	Ajith Abraham	US
ex off. (E-i-C Mechatronics J.)	S. O. Reza Moheimani	US
ex off. (E-i-C NAHS)	Alessandro Giua	IT
ex off. (Editor Newsletter)	Kurt Schlacher	AT
ex off. (E-i-C POL)	Juan de la Puente	ES
ex off (Electronic Media Editor)	Paolo Bolzern	IT
Members:	Anu Annaswamy	US
	Sang Chul Won	KR
	Juergen Hahn	US
	Feiyue Wang	CN

8.5 IFAC JOURNAL EDITORIAL BOARDS

AUTOMATICA

Editor-in-Chief	Roberto Tempo	IT
Editors:	a complete list is available at	
	http://www.journals.elsevier.com/automatica	

CONTROL ENGINEERING PRACTICE

Editor-in-Chief	Andreas Kugi	AT
Deputy Editor-in-Chief:	Biao Huang	CA

Editors: a complete list is available at
<http://www.journals.elsevier.com/control-engineering-practice>

ANNUAL REVIEWS IN CONTROL

Editor-in-Chief Françoise Lamnabhi-Lagarrigue FR
Deputy Editor-in-Chief Alessandro Astolfi UK
Editors: a complete list is available at
<http://www.journals.elsevier.com/annual-reviews-in-control>

JOURNAL OF PROCESS CONTROL

Editor-in-Chief: Denis Dochain BE
Editors: a complete list is available at
<http://www.journals.elsevier.com/journal-of-process-control>

ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE

Editor-in-Chief: Ajith Abraham US
Deputy Editor-in-Chief: Patrick Siarry FR
Editors: a complete list is available at
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