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**International Federation of Automatic Control**

# **IFAC**

# **Information**

**Aims**

**Structure**

**Activities**  
**edition 2008**

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## MESSAGE FROM THE PRESIDENT



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>.

IFAC is the worldwide organization dealing with Automatic Control theory, applications, education, and all of its technical and social implications. The membership of IFAC, based on the National Member Organizations, provides a truly international participation, preserving the local customs in the development of its activities. Individuals can participate in IFAC in many ways: as Affiliates who receive the Newsletter; as Technical Committee Members through nomination either by the National Member Organization or by the Technical Committee Chair; as members of the International Program Committees of IFAC events; as authors of papers for IFAC events; as attendees of IFAC events; and, ultimately as officials of IFAC.

Promotion of Automatic Control science and technology is a goal of paramount importance for IFAC. This is achieved in two ways: through the organization of technical Meetings and through the publication of archival Journals. IFAC organizes between 30 and 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 National Member Organizations, sponsored by one or more of the 40 IFAC Technical Committees, and reviewed by the FAC Technical Board. Every third year, IFAC organizes a World Congress. Beginning with the year 2005, all papers presented at IFAC technical meetings are published online on a dedicated website, replacing in this way the traditional production of printed Proceedings volumes. The name of the site is *IFAC-PapersOnLine.net*. All papers published 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). As of 2009 SCOPUS have agreed to index

PapersOnLine. In due time, the content of the site will be expanded to host the Proceedings of all IFAC technical Events held in earlier years.

A fundamental role in the dissemination of Automatic Control science and technology is also achieved by IFAC through the editorship of six prestigious archival journals: *Automatica*, *Control Engineering Practice*, *Annual Reviews of Control*, *Journal of Process Control*, *Engineering Applications of Artificial Intelligence*, and *Mechatronics*, which are known as IFAC Journals and published in partnership with the official IFAC publisher Elsevier.

Technical excellence is IFAC's main concern. In a world in which dissemination of information has become a possibility for everybody, maintaining the highest technical level of scientific excellence is the only way in which an organization like IFAC can prosper. This is achieved through the top-level quality of the Editorial teams of the IFAC Journals, and through the excellence of our Technical Board and our Technical Committees. Altogether, these Committees can count on the high professional competence and volunteer effort of more than 2000 individuals.

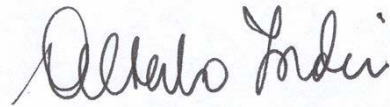
Extraordinary contributions of individuals to Automatic control science and technology are acknowledged by IFAC in various ways. Lifetime contributions, with either a theoretical or practical emphasis, are honored by means of the Giorgio Quazza and Nathaniel Nichols medals, awarded every third year. The Industrial Achievement award is also presented every third year 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, established in 2004, is given annually to a restricted number of individuals who have made outstanding and extraordinary contributions in the fields of interest of IFAC as an engineers/scientists, technical leaders or educators. To emphasize the relevance of education, the Harold Chestnut Control Engineering Textbook Prize has been established. 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 a poster, are also awarded. Long-term service to the Federation is recognized by the Outstanding Service Award and, by a Presidential appointment of a restricted number of individuals, as an IFAC Advisor.

The central technical role in IFAC is played by its Technical Board, which coordinates the activities of the Technical Committees and provides reports and summaries of the state of the art in each area. These internal documents are published, at the time of the Congress, as a reference for the Automatic Control community. The administrative and financial issues are managed by the Executive Board, which also prepares long-term IFAC policies and is in charge of publications and awards.

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 National Member Organizations. The members of the Council, who can be recognized at IFAC meetings by their blue badges, may be approached to discuss any issue related to IFAC activities. The most important goal of IFAC is to serve all of you who are part of the large Automatic Control community.

In 2006, IFAC celebrated its 50th Anniversary in Heidelberg, the place where IFAC was conceived in 1956. Since that time IFAC has grown into a truly worldwide organization, with members in 48 countries worldwide. IFAC National Member Organizations exist on all continents. One of the tasks of IFAC leadership is to promote and strengthen the automatic control communities also in those areas of the world where IFAC has not yet found a representation by a National Member Organization. In 2007, the IFAC Foundation was established, thanks to a most generous donation of the President at that time, Prof. Wook Hyun Kwon. One of the main goals of the Foundation is to facilitate involvement in IFAC initiatives and activities by less advantaged individuals and countries. At the time of the triennial World Congress in Seoul in July 2008, the first financial aid from the IFAC Foundations was disbursed.

The next IFAC triennial World Congress will be held in Milan, Italy, August 28 – September 2, 2011. Plan now to participate. In the meantime, come to other IFAC events and/or contribute to our journals. Join a Technical Committee in the field of your expertise. Our aim is to offer you an excellent and at the same time enjoyable professional and personal relationship.

A handwritten signature in dark ink, reading "Alberto Indri". The signature is written in a cursive style with a large, prominent initial 'A'.

## 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 or international, especially with other non-governmental professional federations.

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](mailto:secretariat@ifac-control.org)) or can be downloaded from the IFAC homepage.

The official journals of IFAC are *Automatica*, *Control Engineering Practice*, *Annual Reviews in Control*, *the Journal of Process Control*, *Engineering Applications of Artificial Intelligence* and *the Journal on Mechatronics* to which one may subscribe by writing to the publisher, Elsevier Ltd. There is a number of IFAC Affiliated Journals. They are listed in this booklet on page 26.

IFAC publications further include proceedings volumes of congresses, symposia, conferences and workshops, Meeting publications going back to 2005 are available at <http://www.ifac-papersonline.net>

In addition, IFAC publishes Milestone Reports, technical committee reports, a multilingual dictionary 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.

## 2. 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. The 50<sup>th</sup> Anniversary of this founding date is celebrated again in Heidelberg in September 2006.

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 chairmen.

IFAC has had eighteen Presidents:

1957-1958	Harold Chestnut (US)
1958-1960	Aleksander M. Letov (SU)
1960-1963	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)

The 19th President, Alberto Isidori (Italy) was elected by the General Assembly convening in Seoul, Korea, on July 07, 2008, for the 2008-2011 term of office.

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

### **3. STRUCTURE OF IFAC**

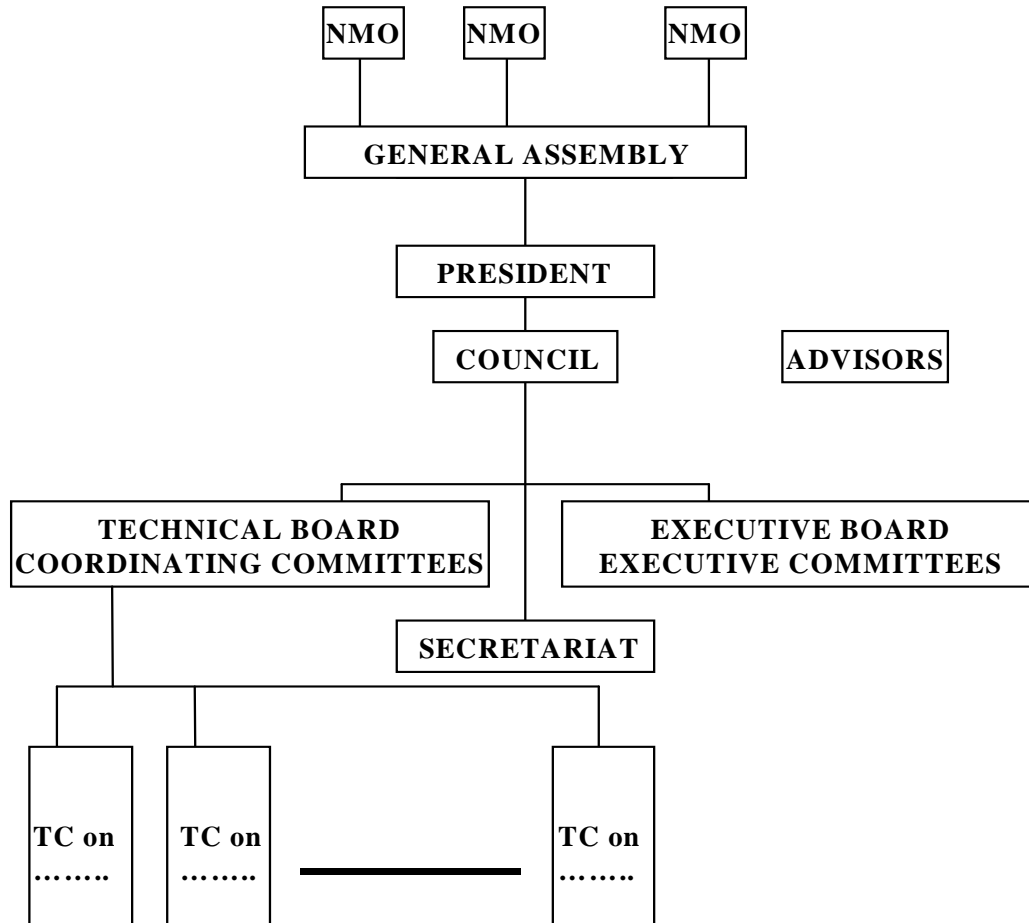
#### **3.1 IFAC CONSTITUTION AND BY-LAWS**

Copies of the Constitution and By-Laws as well as any information about IFAC and its activities are available from the

IFAC Secretariat at  
Schlossplatz 12  
A-2361 Laxenburg, Austria  
Tel: +43/2236/71447  
Fax: +43/2236/72859  
e-mail: [secr@ifac.co.at](mailto:secr@ifac.co.at)  
website: <http://www.ifac-control.org>

### 3.2 ADMINISTRATIVE STRUCTURE

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



The supreme body of the Federation is the General Assembly (GA) which consists of delegations from all National Member Organizations (NMOs), each one having equal rights and equal voting power. As of July 2009, IFAC has had 49 NMOs; their complete list is to be found on pages 27 - 32.

Between meetings of the General Assembly, the management of the Federation is vested in the Council. To deal with the technical and executive activities, respectively, there are two working organs of the Federation, both reporting to the Council: the Technical Board (TB) and the Executive Board (EB). These Boards are chaired by the two IFAC Vice-Presidents. All the Technical Committees report to their cognizant Coordinating Committee Chair on the Technical Board. Four Executive Committees report to the Executive Board.

The President legally represents IFAC.

All services to IFAC by any IFAC officer or official are voluntary and unpaid. IFAC officers and officials for the period 2008 - 2011 are listed on pages 33 – 37.

### 3.3 TECHNICAL COMMITTEES

The Technical Committees (TCs) are responsible for the planning and monitoring of technical events, such as symposia, conferences and workshops, with the NMOs acting as hosts. They also promote their respective areas in other ways, such as establishing contacts with other international organizations, publishing reports on selected topics, etc. The IFAC TCs cover specialized topics in control engineering. Their tasks among many others include promoting interest in emerging control sub-fields, assuming responsibility for technical meetings (or for series of such), providing for cooperation among specialists of their particular field, etc.

#### 3.3.1 Participation in TCs

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. The Chairs of the Technical Committees are listed on pages 11 – 15; their e-mail addresses can be obtained from the IFAC Secretariat or from the IFAC website.

IFAC currently has the following Coordinating Committees and Technical Committees.

#### 1. Systems and Signals

##### CC Chair Xiren Cao (HK)

- 1.1 TC Modelling, Identification and Signal Processing
- 1.2 TC on Adaptive and Learning Systems
- 1.3 TC on Discrete Event and Hybrid Systems
- 1.4 Stochastic Systems
- 1.5 Networked Systems

#### 2. Design Methods

##### CC Chair Patrizio Colaneri (IT)

- 2.1 Control Design
- 2.2 Linear Control Systems
- 2.3 Non-Linear Control Systems
- 2.4 Optimal Control
- 2.5 Robust Control

#### 3. Computers, Cognition and Communication

##### CC Chair Matjaz Colnaric (SI)

- 3.1 Computers for Control
- 3.2 Computational Intelligence in Control
- 3.3 Telematics: Control via Communication Networks

#### 4. Mechatronics, Robotics and Components

##### CC Chair Detlef Zuehlke (DE)

- 4.1 Components and Technologies for Control
- 4.2 Mechatronic Systems
- 4.3 Robotics
- 4.4 Cost Oriented Automation
- 4.5 Human Machine Systems

## **5. Manufacturing and Logistics Systems**

### **CC Chair Laszlo Monostori (HU)**

- 5.1 Manufacturing Plant Control
- 5.2 Manufacturing Modelling for Management and Control
- 5.3 Enterprise Integration and Networking
- 5.4 Large Scale Complex Systems

## **6. Process and Power Systems**

### **CC Chair Sigurd Skogestad ((NO)**

- 6.1 Chemical Process Control
- 6.2 Mining, Mineral and Metal Processing
- 6.3 Power Plants and Power Systems
- 6.4 Safeprocess

## **7. Transportation and Vehicles Systems**

### **CC Chair Lars Nielsen (SE)**

- 7.1 Automotive Control
- 7.2 Marine Systems
- 7.3 Aerospace
- 7.4 Transportation Systems
- 7.5 Intelligent Autonomous Vehicles

## **8. Bio & Ecological Systems**

### **CC Chair Fan-Lun Xiong (CN)**

- 8.1 Control in Agriculture
- 8.2 Biological and Medical Systems
- 8.3 Modelling and Control of Environmental Systems
- 8.4 Biosystems and Bioprocesses

## **9. Social Systems**

### **CC Chair Gheorgi Dimirovski (MK)**

- 9.1 Economic and Business Systems
- 9.2 Social Impact of Automation
- 9.3 Developing Countries
- 9.4 Control Education
- 9.5 SWIIS (Supplemental Ways for Improving International Stability)

## **Chairs and Brief Scopes of Technical Committees:**

### **1.1 TC Modelling, Identification and Signal Processing**

**Chair: Hakan Hjalmarsson (SE)**

All aspects of system modelling and identification, from theoretical and methodological developments to practical applications.

### **1.2 TC Adaptive and Learning Systems**

**Chair: Alexander Fradkov (RU)**

Continuous and discontinuous adaptation and learning rules for prediction, control and signal processing.

### **1.3 TC Discrete Event and Hybrid Systems**

**Chair: Alessandro Giua (IT)**

All aspects of analysis and control of Discrete Event Systems (DES) and Hybrid Systems (HS).

#### **1.4 TC Stochastic Systems**

**Chair: Charalambos Charalambous (CY)**

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

#### **1.5 TC Networked Systems**

**Chair: Karl Henrik Johansson (SE)**

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

#### **2.1 TC Control Design**

**Chair: Alessandro Astolfi (UK)**

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: Luc Dugard (FR)**

Various topics in the design of linear control systems, including the study of n- and infinite dimensional, implicit, non-stationary systems and systems with time delays.

#### **2.3 Non-Linear Control Systems**

**Chair: Xiaohua Xia (ZA)**

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: Alexander Tarasyev (RU)**

Methods for optimal control including large scale optimisation, non-smooth and discontinuous optimization, optimization under uncertainties, singularities, algorithms and software.

#### **2.5 Robust Control**

**Chair: Faryar Jabbari (US)**

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

#### **3.1 Computers for Control**

**Chair: Marek Wegrzyn (PL)**

Computer-based control systems for real-time computing and communications, for distributed control and safety-critical applications, and their development methodologies.

#### **3.2 Computational Intelligence in Control**

**Chair: Antonio Barros Ruano (PT)**

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 Computers, Communication and Telematics**

**Chair: Klaus Schilling (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.

#### **4.1 Components and Technologies for Control**

**Chair: Marco Muenchhof (DE)**

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: Masayoshi Tomizuka (US)**

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

#### **4.3 Robotics**

**Chair: Hideki Hashimoto (JP)**

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.

#### **4.4 Cost Oriented Automation**

**Chair: Mireille Bayart (FR)**

Cost effective reference architecture and development approaches for production and transportation that properly integrate human skill, technical solutions and maintenance issues.

#### **4.5 Human Machine Systems**

**Chair: Wan Chul Yoon (KR)**

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

#### **5.1 Manufacturing Plant Control**

**Chair: Carlos Pereira (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: Jose Ceroni (CL)**

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: Herve Panetto (FR)**

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: Mietek A. Brdys (UK)**

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

#### **6.1 Chemical Process Control**

**Chair: Francis J. Doyle III (US)**

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: Kazuya Asano (JP)**

All aspects of process control in the fields of mining, mineral processing, and metal processing.

## **6.3 Power Plants and Power Systems**

**Chair: Istvan Erlich (DE)**

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

## **6.4 Safeprocess**

**Chair: Jakob Stoustrup (DK)**

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

## **7.1 Automotive Control**

**Chair: Gianfranco Rizzo (IT)**

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: Antonio Pascoal (PT)**

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: Houria Siguerdidjane (FR)**

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

## **7.4 Transportation Systems**

**Chair: Todor Stoilov (BG)**

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

## **7.5 Intelligent Autonomous Vehicles**

**Chair: Michel Devy (FR)**

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

## **8.1 Control in Agriculture**

**Chair: Noboru Noguchi (JP)**

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 Modelling and Control of Biomedical Systems**

**Chair: Steen Andreassen (DK)**

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: Andrea Castelletti (IT)**

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: Jaime Moreno Perez (MX)**

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.

### **9.1 Economic and Business Systems**

**Chair: Fei-Yue Wang (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: Frederique Mayer (FR)**

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

### **9.3 Developing Countries**

**Chair: Ibrahim Eksin (TR)**

Automation and related topics in developing countries, fostering developing countries' interest in IFAC, invitation and assistance to NMOs in the organization of workshops, symposia and regional conferences.

### **9.4 Control Education**

**Chair: Bozenna Pasik-Duncan (US)**

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

### **9.5 Supplemental Ways of Improving International Stability**

**Chair: Peter Kopacek (AT)**

Identification, definition, and improvement of factors which significantly influence international stability. Cooperation with related groups to improve SWIIS effectiveness.

## **3.4. EXECUTIVE COMMITTEES**

The scopes of the respective Committees are as follows:

### **Administrative and Finance Committee**

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**

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**

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**

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

## **3.5 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. The Chairs of the Technical Committees are listed on pages 11 – 15; their e-mail addresses can be obtained from the IFAC Secretariat or from the IFAC website.

## **3.6 IFAC AWARDS**

### **The Giorgio Quazza Medal**

This is an IFAC award to a distinguished control engineer, presented at each IFAC Triennial International World Congress as 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 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:

- 1981            Prof. John F. Coales (UK)
- 1984            Prof. Yakov Z. Tsytkin (RU)
- 1987            Prof. Karl J. Åström (SE)
- 1990            Prof. Petar Kokotovic (US)
- 1993            Prof. Edward J. Davison (CA)
- 1996            Prof. Alberto Isidori (IT)

- 1999 Prof. Brian D.O. Anderson (AU)
- 2002 Prof. Lennart Ljung (SE)
- 2005 Prof. Tamer Basar (US)
- 2008 Prof. Graham Goodwin (AU)

### **Nathaniel B. Nichols Medal**

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 Prof. Jürgen Ackermann (DE)
- 1999 Dr. Gunter Stein (US)
- 2002 Dr. Carl Nett (US)
- 2005 Dr. William F. Powers (US)
- 2008 Prof. Gerd Hirzinger (DE)

### **Industrial Achievement Award**

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 Development and Establishment Team for Hot Rolling Technology”  
headed by Yasuo Ichii, Shoji Murayama, and Takahiro Yamasaki of the  
Kawasaki Steel Corporation
- 2005 Serge Boverie
- 2008 not awarded

### **IFAC Fellows**

This new distinction was for the first time awarded at the IFAC World Congress in Prague. 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 (FSC), which is appointed by the President (FSC 2008-2011 see page

37). The Fellow Selection Committee responds to nominations, and details of the procedure to make nominations are included on the IFAC website.

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* Prize Paper Award
- *Control Engineering Practice* Prize Paper Award
- *Engineering Applications in Artificial Intelligence* Prize Paper Award
- *Journal of Process Control* Prize Paper Award
- *Journal of Mechatronics* Prize Paper Award

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

### **IFAC Congress Applications Paper Prize**

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

### **IFAC Congress Young Author Prize**

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

Candidates for both 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.

### **Harold Chestnut Control Engineering Textbook Prize**

This award is presented at each Triennial Congress for the best Control Engineering textbook in one of the official IFAC languages (preferably in English) for which the first edition(s) occurred not later than the Congress just prior to the one at which the award is presented, i.e. between 31 July, 1999 and 31 July, 2005. 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, chaired ex officio by the Control Education Committee Chair. 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, First President of IFAC.

### **IFAC Congress Poster Paper Prize**

This prize is awarded at each IFAC World Congress for the best poster paper. Candidates for this prize are nominated by a selection committee appointed by the National Organizing Committee of the Congress. The prize consists of a monetary prize funded by the Congress organizers and a certificate.

### **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.

## **3.7 FINANCES**

The revenue of IFAC chiefly consists of annual membership fees paid by the NMOs, publications income from the IFAC Journals and from the publications of IFAC events. 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.

The membership fees, as determined by the General Assembly, are established in 4 categories, each NMO selecting the appropriate category.

The present membership fees for each category of membership are:

<b>Category</b>	<b>Annual</b>
1	€ 1.250,--
2	€ 2.500,--
3	€ 5.000,--
4	€ 10.000,--

All financial matters of IFAC are managed by the Treasurer:

Prof. Lino Guzzella  
 ETH Zürich, IDSC  
 Sonneggstrasse 3, ML K 32.1  
 CH-8092 Zurich, Switzerland  
 e-mail: lguzzella@ethz.ch

## **3.8 IFAC SUPPORT**

### **3.8.1 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/>

### 3.8.2 Michel Cuénod Fund

This Fund was established at the 10th IFAC World Congress following the last will of IFAC's former Treasurer of many years, Michel Cuénod. The purpose of this Fund is, among others, to assist scientists and engineers working in developing countries in furthering their professional education and training. The beneficiaries of the initial capital shall be the members of the Department of Electrical Engineering of the Middle East University in Ankara. Any sums exceeding the initial capital shall be disbursed in accordance with provisions of the fund. At the IFAC World Congress in Seoul, July 2008 it was decided to integrate this Cuénod Fund into the IFAC Foundation.

### 3.8.3 IFAC NMO Foundations

In order to promote the progress of Automatic Control, IFAC Foundations may be established in countries which have an NMO. The respective Foundation will engage in scientific, technical and educational activities, directed towards the advancement of the theory and practice of control engineering. The Foundation is dedicated to improving communications of scientific results, particularly in developing countries. For such countries, it may, e.g. support travel and local expenses of authors whose papers have been accepted for IFAC events, assist in organization of IFAC events or improve electronic communications between IFAC and the NMOs. So far, IFAC Foundations have been established by four NMOs, i.e. in China, P.R., Japan, Romania and the UK.

## 4. IFAC ACTIVITIES

### 4.1 CONGRESSES

Triennial Congresses are organized on a worldwide scale, with attendance varying between 1000 to 2000 persons. They are held in the home-country of the President in office during the third year of his term of office.

Location and dates of past Congresses are shown below:

1 <sup>st</sup>	Congress	1960:	Moscow (SU)
2 <sup>nd</sup>	Congress	1963:	Basle (CH)
3 <sup>rd</sup>	Congress	1966:	London (UK)
4 <sup>th</sup>	Congress	1969:	Warsaw (PL)
5 <sup>th</sup>	Congress	1972:	Paris (FR)
6 <sup>th</sup>	Congress	1975:	Boston/Cambridge (US)
7 <sup>th</sup>	Congress	1978:	Helsinki (FI)
8 <sup>th</sup>	Congress	1981:	Kyoto (JP)
9 <sup>th</sup>	Congress	1984:	Budapest (HU)
10 <sup>th</sup>	Congress	1987:	Munich (DE)
11 <sup>th</sup>	Congress	1990:	Tallinn (SU)
12 <sup>th</sup>	Congress	1993:	Sydney (AU)
13 <sup>th</sup>	Congress	1996:	San Francisco (US)
14 <sup>th</sup>	Congress	1999:	Beijing (CN)

15 <sup>th</sup> Congress	2002:	Barcelona (ES)
16 <sup>th</sup> Congress	2005:	Prague (CZ)
17 <sup>th</sup> Congress	2008:	Seoul (KR)

The 18<sup>th</sup> Congress will be held in Milan, Italy (<http://www.ifac2011.org>) from August 28 – September 2, 2011

The 19<sup>th</sup> Congress is scheduled for Capetown, South Africa in 2014

## 4.2 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 rule, no Symposia/Conferences take place in the year of the Congress, and also 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/>

### 4.3 MASTERPLAN OF IFAC SYMPOSIA

Future IFAC events include the following regular Symposia:

Advanced Control in Chemical Processes  
 Advances in Automotive Control  
 Advances in Control Education  
 Automated Systems Based on Human Skill and Knowledge  
 Automatic Control in Aerospace  
 Computer Applications in Biotechnology  
 Computational Methods in Economics and Financial Systems  
 Cost Oriented Automation  
 Dynamics and Control of Process Systems  
 Fault Detection, Supervision and Safety for Technical Processes  
 Human Machine Systems  
 Information Control in Manufacturing  
 Intelligent Autonomous Vehicles  
 Large Scale Complex Systems  
 Mechatronic Systems  
 Mining, Mineral and Metal Processing  
 Modelling and Control of Biomedical Systems  
 Non-Linear Control Systems  
 Power Systems and Power Plants  
 Robot Control  
 Robust Control Design  
 System Identification  
 System Structure and Control  
 Telematics Applications  
 Transportation Systems

### 5. 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](http://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 Newsletter, the Technical Committee Reports and some Affiliated Journals.

- IFAC Symposium, Conference and Congress Proceedings Volumes
- Milestone Reports
- 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 Affiliated Journals
- Multilingual Dictionary of Automatic Control Technology
- IFAC Newsletter

## - IFAC Technical Committee Reports

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

IFAC Publications Office  
Elsevier Ltd  
The Boulevard  
Langford Lane  
Kidlington, Oxford OX5 1GB, UK  
e-mail: [ifacpubs@elsevier.co.uk](mailto:ifacpubs@elsevier.co.uk)

### 5.1 IFAC 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:

The development of digital publishing technologies and the universal availability of high-speed Internet connections have opened a wide range of opportunities for the publication of technical papers. Following a Council decision in September 2006, all fully reviewed papers presented at IFAC events are now published on the dedicated portal - <http://www.ifac-papersonline.net> - in partnership with Elsevier, the IFAC publisher. All papers published on the website can be cited using the site ISSN, the event ISBN and the individual paper DOI (Digital Object Identifier). As of 2009 Scopus have agreed to index PapersOnLine.

### **IFAC Publications and Copyright Policy**

The material submitted for presentation at an IFAC meeting (Congress, Symposium, Conference, Workshop) must be original, not published or being considered elsewhere. All papers accepted for presentation will appear in the Preprints of the meeting and will be distributed to the participants. Papers duly presented at the IFAC Congress, Symposia, Conferences and Workshops will be hosted on-line on the IFAC-PapersOnLine.net website. The presented papers will be further screened for possible publication in the IFAC Journals (Automatica, Control Engineering Practice, Annual Reviews in Control, Journal of Process Control, Engineering Applications of Artificial Intelligence, and Mechatronics), or in IFAC affiliated journals. All papers presented will be recorded as an IFAC Publication.

Copyright of material presented at an IFAC meeting is held by IFAC. Authors will be required to transfer copyrights electronically and/or in hard copy. The IFAC Journals and, after these, IFAC affiliated journals have priority access to all contributions presented. However, if the author is not contacted by an editor of these journals, within three months after the meeting, he/she is free to submit an expanded version of the presented material for journal publication elsewhere. In this case, the paper must carry a reference to the IFAC meeting where it was originally presented and, if the paper has appeared on the website [www.IFAC-PapersOnLine.net](http://www.IFAC-PapersOnLine.net), also a reference to this publication

## 5.2. IFAC JOURNALS

- **AUTOMATICA**
- **CONTROL ENGINEERING PRACTICE**
- **ANNUAL REVIEWS IN CONTROL**
- **JOURNAL OF PROCESS CONTROL**
- **JOURNAL ON ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE**
- **JOURNAL OF MECHATRONICS**

**Automatica** is an IFAC journal, published monthly. *Automatica* publishes selected papers from IFAC events after careful review and, usually, extended revisions. It also publishes other reviewed contributions separately submitted. Only papers submitted in English can be considered for publication in *Automatica*. (Editorial Board, see page 35)

Editor-in-Chief: T. Basar

The address of the *Automatica* Editor-in-Chief is

Tamer Basar  
 Coordinated Science Laboratory  
 University of Illinois at Urbana Champaign  
 1308 West Main Street  
 Urbana, IL 61801, USA  
 e-mail: [automatica@autsubmit.com](mailto:automatica@autsubmit.com)

**Control Engineering Practice**, is IFAC's applications journal, published monthly. It contains papers relating to the application of control theory and its supporting technologies, in all areas of automation. Papers, whether originating from IFAC events or directly submitted are reviewed by an international panel of referees. Additionally, all papers presented at IFAC events are recorded in the journal, providing a comprehensive reference source. Only papers submitted in English can be considered. Further, the journal provides a Conference Calendar of all IFAC events. (Editorial Board cf. page 35)

Editor-in-Chief: I. Craig

The address of the Editor-in-Chief of *Control Engineering Practice* is  
 Ian Craig

Dept. of Electrical Engineering  
 University of Pretoria  
 Pretoria 0002, South Africa  
 e-mail: [cep@up.ac.za](mailto:cep@up.ac.za)

**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 review papers specifically written for the Journal. (Editorial Board cf. page 35)

Editor in Chief: J. Gertler

The address of the Editor-in-Chief of Annual Reviews in Control is

Prof. Janos Gertler  
 George Mason University, Electrical&Computer Engg., 1G5  
 Fairfax, VA, 22030-4444, USA  
 e-mail: [jgertler@gmu.edu](mailto:jgertler@gmu.edu)

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 (Editorial Board cf page 36)

Editor-in-Chief: T. McAvoy

The address of the Editor-in-Chief of the Journal of Process Control is

Prof. Thomas McAvoy  
 Dept. of Chemical and Nuclear Engineering  
 University of Maryland  
 College Park, MD 20742-2111, USA  
 e-mail: [mcavoy@eng.umd.edu](mailto:mcavoy@eng.umd.edu)

**Engineering Applications of Artificial Intelligence** is an international journal that publishes papers relating to intelligent real-time automation. It is published six times per year and features directly submitted papers as well as many papers originating from IFAC meetings. All papers are rigorously reviewed. Regular special issues are published on new and emerging topics of interest. (Editorial Board cf page 36)

Editor-in-Chief: R. Vingerhoeds

The address of the Editor-in-Chief of Engineering Applications of Artificial Intelligence is

Prof. Rob Vingerhoeds  
 34, rue de Martini  
 F-31500 Toulouse, France  
 e-mail: [eaai@neuf.fr](mailto:eaai@neuf.fr)

***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 features directly submitted papers as well as those originating from IFAC meetings. All papers are rigorously reviewed prior to publication. Special issues are published on new and emerging topics of interest.

Editors-in-Chief: M. Steinbuch

Book Review Editor: D. Subbaram Naidu  
Regional Editor: T.H. Lee

The address of the Editor-in-Chief of the Journal on Mechatronics is

Prof. Maarten Steinbuch  
Dept. of Mechanical Engineering, Control Systems Techn. Group  
Eindhoven University of Technology, WH 0.141, POB 513  
NL-5600 MB Eindhoven, The Netherlands  
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Kidlington, Oxford OX5 1GB, UK  
e-mail: [ifacpubs@elsevier.co.uk](mailto:ifacpubs@elsevier.co.uk)

### 5.3 IFAC AFFILIATED JOURNALS

In addition to the currently five IFAC Journals, several others have been or are being considered for affiliation with IFAC. They are usually associated with a Technical Committee. Authors and conference organizers are encouraged to submit their papers to one of these journals, and organizers are encouraged to contact the editors of these journals with a view to arranging publication of some of the papers presented at a technical meeting.

The following journals are currently Affiliated Journals of IFAC

<u>Name of journal</u>	<u>publisher</u>
Automation Technology in Practice – ATP International	Oldenbourg
Computer Methods and Programs in Biomedicine	Elsevier
Real Time Systems	Springer
Robust and Non-linear Control	Wiley
Robotica	Cambridge

## 5.4 MILESTONE REPORTS

Discussions within the Technical Board of IFAC have shown that more surveys for the different scientific and technical fields are desired, which summarize the state-of-the-art and future trends. Therefore the chairs of the Coordination Committees were asked in 2000 to compile *milestone reports* with the support of the Technical Committees. The milestone reports should be organized in two parts: I. Current status (key problems in the field, recent accomplishments to theory and applications), II. Forecasts (needs and challenges, anticipated developments, likely new applications).

The Milestone Reports were first published as a separate Congress Proceedings Volume at the 15<sup>th</sup> IFAC World Congress in Barcelona and were published as a special issue of the IFAC Journal "Annual Reviews in Control" following the 16<sup>th</sup> IFAC World Congress in Prague.

## 5.5 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 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. Copies of the Newsletter may be obtained from the Secretariat or through the IFAC NMOs.

## 6. NATIONAL MEMBER ORGANIZATIONS

(as of July 2009)

### ARGENTINA

AR

Asoc. Argentina de Control Automático - AADECA  
 Att: Ms. Susanna Terlizzi      gerencia@aadeca.org  
<http://www.aadeca.org/>

### AUSTRALIA

AU

The Institution of Engineers, Australia  
 Att: Ms. Rachele Dews      RDews@engineersaustralia.org.au  
<http://www.engineersaustralia.org.au/>

### AUSTRIA

AT

Oest. Ges. f. Automatisierung & Robotertechnik - OeGART  
 Att: Prof. Peter Kopacek      kopacek@ihrt.tuwien.ac.at  
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<a href="http://www.ibra-control.be/">http://www.ibra-control.be/</a>		
<b>BRAZIL</b>		BR
Sociedade Brasileira de Automatica, SBA		
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<a href="http://www.sba.org.br">http://www.sba.org.br</a>		
<b>BULGARIA</b>		BG
Federation of the Scientific Engineering Unions in Bulgaria - FNTS		
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<a href="http://www.fnts-bg.org/">http://www.fnts-bg.org/</a>		
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<a href="http://www.ifac-canada.ca">http://www.ifac-canada.ca</a>		
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Chinese Association of Automation		
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<a href="http://caa.gongkong.com/">http://caa.gongkong.com/</a>		
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Red de Automatica de Cuba - RAC		
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<a href="http://www.cujae.edu.cu/clca/principal.htm">http://www.cujae.edu.cu/clca/principal.htm</a>		
<b>CZECH REPUBLIC</b>		CZ
Czech Society f. Cybernetics & Informatics, UTIA AV CR,		
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<a href="http://www.utia.cas.cz/">http://www.utia.cas.cz/</a>		

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<b>FINLAND</b>		FI
Finnish Society of Automation		
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<a href="http://www.vdi.de/gma/gma.htm">http://www.vdi.de/gma/gma.htm</a>		
<b>GREECE</b>		GR
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The Hong Kong Institution of Engineers		
Att: Prof. C.W. Chan	mechan@hkucc.hku.hk	
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<b>HUNGARY</b>		HU
IFAC National Member Organization		
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Irish Systems and Control Committee		
Att: Prof. John Ringwood	john.ringwood@eeng.nuim.ie	

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KA-CASE		
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Lithuanian National Automatic Control Organization - LINO		
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ETAI of Macedonia		
Att: Prof. Mile Stankovski	milestk@etf.ukim.edu.mk	
<b>MEXICO</b>		MX
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Royal Institution of Engineers		
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<a href="http://www.ingenieurs.net">http://www.ingenieurs.net</a>		
<b>NORWAY</b>		NO
Norsk Forening for Automatisering - NFA		
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Associacao Portuguesa de Controlo Automatico - APCA Att: Dr. Jose Boaventura      jboavent@utad.pt <a href="http://www.apca.pt/">http://www.apca.pt/</a>		
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Instrumentation and Control Society Att: Ms. Jane Goh Lee Kiang      Jane.Goh@sg.schneider.electric.com		
<b>SLOVAK REPUBLIC</b>		SK
Slovak Society of Cybernetics and Informatics Att: Prof. Jan Mikles      jan.mikles@stuba.sk		
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Automatic Control Society of Slovenia Att: Prof. Boris Tovornik      boris.tovornik@uni-mb.si		
<b>SOUTH AFRICA</b>		ZA
South African Council for Automation - SACAC Att: Ms. Jean. McKenzie      jeanemck@jcci.co.za <a href="http://www.ee.up.ac.za/main/en/index">http://www.ee.up.ac.za/main/en/index</a>		
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