

INTERNATIONAL FEDERATION  
OF AUTOMATIC CONTROL

## NEWSLETTER

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## IFAC YouTube Channel Update

The IFAC YouTube channel was launched in January 2015 in the framework of a wider initiative aimed at boosting the IFAC visibility in the social media arena. The channel is mainly intended as a digital repository of the audio-video recording of Plenary Lectures, delivered at selected IFAC events, so as to help spread the knowledge about IFAC activities both within our control community and possibly to a larger audience. The channel is readily accessible from the homepage of the IFAC website (<http://www.ifac-control.org/>).

The channel also features a special section, called "History channel", that is meant to collect visual documents about the history of IFAC and the scientists that gave significant contributions to its birth and subsequent development. Recently, the History channel has been enriched with two precious documents. One is a recollection of the early days of IFAC from a British perspective, ideated by Sarah Spurgeon and performed by Percy Hammond and Derek Atherton. The second is a documentary on the life of Harold Chestnut, a pioneer in systems and control engineering and the first President of IFAC. This film has been made available to the IFAC channel courtesy of the Edison Tech Center at Schenectady, New York.



Paolo Bolzern

At present, the IFAC YouTube Channel features 43 videos organized in the following 7 playlists:

- 18th IFAC World Congress, Milano (Italy), 2011 (9 videos). It displays the recording of the Plenary and Semiplenary Sessions and a synthesis video prepared by the Conference Chair, Sergio Bittanti. The lectures were delivered by D. B. Doman, P. K. Houpt, A. B. Kurzhanski, A. Lindquist, B. Ninness, L. Praly, C. W. Scherer, P. Terwiesch.
- 19th IFAC World Congress, CapeTown (South Africa), 2014 (10 videos). It displays the recording of the Plenary and Semiplenary Sessions and a synthesis video prepared by the Conference Chair, Fernando Camisani. The lectures were delivered

by H. Asama, L. Guo, T. Jones, M. Khamash, N. Leonard, J. Little, J. Z. Lu, R. Murray, E. Scholtz.

- MICNON 2015, Saint Petersburg (Russia), 2015 (6 videos). It displays the recording of the Plenary Sessions delivered at the 1st Conference on Modelling, Identification and Control of Nonlinear Systems (MICNON 2015) held in Saint Petersburg in June 2015. The lecturers were K. Åström, R. Brockett, A. Fradkov, D. Hill, R. E. Kalman, B. Polyak.
- ROCOND '15, Bratislava (Slovak Republic), 2015 (1 video). It displays the recording of a Plenary Lecture delivered by V. Kucera at the 8th IFAC Symposium on Robust Control Design (ROCOND 2015), held in Bratislava in July 2015. The lecturers were K. Åström, R. Brockett, A. Fradkov, D. Hill, R. E. Kalman, B. Polyak.
- ECC '15, Linz (Austria), 2015 (8 videos). It displays the recording of the Plenary and Semiplenary Sessions delivered at the 14th European Control Conference (ECC'15), held in Linz in July 2015 and co-organized by IFAC. The lectures were delivered by C. L. Beck, F. Borrelli, H. Garnier, K. Kunisch, A. Papachristodoulou, A. Rantzer, J. Scherpen, R. Tempo.
- ACC '15, Chicago (USA), 2015 (1 video). It displays the recording of the Plenary Talk delivered by T. F. Edgar at the 2015 American Control Conference, held in Chicago in July 2015 and co-sponsored by IFAC. This recording is made available on the IFAC YouTube channel courtesy of the American Automatic Control Council and IEEE Control Systems Society. It is also available at <http://ieeecs-oll.org>.
- History Channel (8 videos). This playlist includes the following content:
  - Giorgio Quazza commemoration at ROCOND 2003 with contributions by P. Kokotovic and V. Kucera.
  - Interview with Prof. J. Westcott by S. Bittanti (June 2011).
  - Historical session at 18th IFAC World Congress (Milano, 2011) chaired by A. Kurzhanski, with contributions by S. Kahne, R. E. Kalman, M. Thoma, T. Vámos, J. Westcott.
  - Historical session I at MICNON 2015 (Saint Petersburg). Memorial Session in Honor of V. A. Yakubovich, Essays and Recollections I, with contributions by G. Leonov, R. E. Kalman, R. Brockett, A. Isidori, D. J. Hill, A. Lindquist.

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

## Automatica

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

## Control Engineering Practice

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

## Engineering Applications of Artificial Intelligence

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

## Journal of Process Control

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

## Annual Reviews in Control

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

## Journal on Mechatronics

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

## Nonlinear Analysis: Hybrid Systems

<http://www.elsevier.com/locate/na-hs>

## YouTube Channel Update

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- Historical session II at MICNON 2015 (Saint Petersburg). Memorial Session in Honor of V. A. Yakubovich, Essays and Recollections II, with contributions by D. V. Yakubovich, V. Rasvan, R. Ortega, K. Furuta, B. T. Poljak, A. L. Fradkov.
- IFAC, An Oral History (London, 2015) – P. Hammond, D. Atherton, S. Spurgeon.
- Harold Chestnut – Pioneer in Automation, Episode 1 (courtesy of the Edison Tech Center).
- Harold Chestnut – Pioneer in Automation, Episode 2 (courtesy of the Edison Tech Center).

According to the available statistics, as of this writing the channel has received a total of 1367 views and 63 subscriptions by YouTube users.

New videos to be posted in the near future include the complete list of the plenary lectures given at the 2015 American Control Conference held in Chicago (USA) and in forthcoming IFAC events.

Conference organizers and all readers of this newsletter are encouraged to suggest other appropriate materials that could be considered for publication on the channel. Suggestions should be directed to Paolo Bolzern via email at [paolo.bolzern@polimi.it](mailto:paolo.bolzern@polimi.it).

Submitted by Paolo Bolzern, IFAC Electronic Media Editor

## Who's Who in IFAC: PubCom Chair Tamer Basar

Tamer Basar was born in Istanbul, Turkey, and received B.S.E.E. degree from Robert College, Istanbul, in 1969, and M.S., M.Phil, and Ph.D. degrees in engineering and applied science from Yale University, in 1970, 1971 and 1972, respectively. After stints at Harvard University, Marmara Research Institute (Gebze, Turkey), and Bosaziçi University (Istanbul), he joined the University of Illinois at Urbana-Champaign (UIUC) in 1981, where he is with the Department of Electrical and Computer Engineering, is the Director of the Center for Advanced Study, and carries the academic titles of Swanlund Endowed Chair, Center for Advanced Study Professor of Electrical and Computer Engineering, Professor at the Coordinated Science Laboratory, Professor with the Informa-

tion Trust Institute, and Affiliate Professor at the Department of Mechanical Science and Engineering. He has spent sabbatical years at Twente University of Technology (the Netherlands, 1978-79), and INRIA (France, 1987-88 and 1994-95).

Dr. Basar has authored or co-authored over 700 publications in systems, control, communications, information theory, networks, security and trust, and dynamic games, including books on non-cooperative dynamic game theory (1982, 1995, and 1999), robust and  $H_{\infty}$  control (1991, 1995), network security (2011), wireless and communication networks (2011), and stochastic networked control (2013). He has also edited or co-edited several special volumes, including the centennial volume Control Theory: Twenty-Five Seminal Papers (1932-1981) (IEEE Press, 2001). His current research interests include stochastic teams, games, and networks; security; and cyber-physical systems.



**Tamer Basar**

Tamer Basar is a member of the National Academy of Engineering (USA), and also holds memberships in several scientific organizations, among which are SIAM, SEDC (Society for Economic Dynamics and Control), ISDG (International Society of Dynamic Games), GTS (Game Theory Society), European Academy of Sciences, and IEEE (Institute of Electrical and Electronics Engineers). He was elected a Fellow of IEEE in 1983, and has served its Control Systems Society (CSS) in various capacities, among which are: Past President (2001), President (2000), President-Elect (1999), Vice-President for Financial Affairs (1998), Vice-President for Publications (1997), the Editor for Technical Notes and Correspondence for its Transactions on Automatic Control (1992-1994), and as the general chairman (1992) and program chairman (1989) of its flagship conference (Conference on Decision and Control).

During the period 1990-1994, he was the Founding President of the ISDG, and is currently the Series Editor of the Annals of ISDG (published by Birkhäuser), the Series Editor of Systems & Control: Foundations and Applications (Birkhäuser), the Series Editor of Static and Dynamic Game Theory: Foundations and Applications (Birkhäuser), an Editor of Springer Briefs in Electronic and Computer Engineering:

Control, Automation and Robotics, and Honorary Editor of Applied and Computational Mathematics. He is also on the editorial and advisory boards of a number of other international journals. He was the President of the American Automatic Control Council (AACC—the US NMO of IFAC) from 2010-2011, and Past President from 2012-2013.

At IFAC, Dr. Basar has had a long history of service, beginning with his associate editorship of Automatica in 1977. He became an Editor in 1992, Deputy Editor-in-Chief in 1993, and Editor-in-Chief in 2004, remaining in that position till 2014. He has also served as a member of the IFAC Council (2011-2014), and is currently the Chair of the Publications Committee. IFAC promotes the development of control science and technology through various publications

He has been active at the conference front as well, participating in the organization and running of several IFAC conferences. Also, he has a long IFAC Congress record, having attended every single one since 1978. He was honored by IFAC through its Outstanding Service Award (2005), Giorgio Quazza Medal (2005), and Fellow designation (2005).

Among some of the other honors and awards Tamer Basar has received over the years are (in reverse chronological order): IEEE Control Systems (Technical Field) Award (2014), Honorary Chair Professorship from Tsinghua University, Beijing, China (2014), Honorary Doctorate (Doctor Honoris Causa) from Bogaziçi University, Istanbul (2012), SIAM Fellow (2012), Honorary Doctorate from the National Academy of Sciences of Azerbaijan (2011), Isaacs Award of ISDG (2010), Honorary Professorship from Northeastern University, Shenyang, China (2008), Honorary Doctorate from Dogus University, Istanbul (2007), Richard E. Bellman Control Heritage Award of AACC (2006), Hendrik W. Bode Lecture Prize of the IEEE CSS (2004), IEEE Millennium Medal (2000), Axelby Outstanding Paper Award (1995) and Distinguished Member Award (1993) of the IEEE CSS, and Medal of Science of Turkey (1993).

Basar currently serves as chair of the IFAC Publications Committee (PubCom) for the 2014-2017 triennium. The Publications Committee regulates and controls all IFAC publications in accordance with guidelines laid down by the IFAC Council and authorizes expenditure on publications within strict budgetary limits approved by the Council. It submits a report on its work to the Executive Board each year.

Bio submitted by Tamer Basar, PubCom Chair. Description of PubCom provided by IFAC Secretariat.

### IFAC is now on social media!

Check out IFAC's presence on Facebook and Twitter!

In addition check out the IFAC Blog at <http://blog.ifac-control.org>

IFAC's YouTube channel is available with new and historical IFAC video materials!

The link to the YouTube channel can be accessed via the IFAC website.

## IFAC Informal Officers' Meeting

The IFAC officers, President Janan Zaytoon (FR), President-elect Frank Allgöwer (DE), Immediate Past-President Ian Craig (ZA), Executive Board Chair Sergio Bittanti (IT), Technical Board Chair Frank Doyle (US), and Treasurer John Lygeros (CH) gather in Austria each year for an informal meeting. This tradition stems from the presidency of Yoshikazu Sawaragi (JP) when international communications were much slower and far more expensive than they are today but the tradition of the annual informal officer's meeting lives on as often it is easier and more effective to meet and discuss issues in the same room rather than over email, messaging software, etc.

In addition the informal meeting provides IFAC with the opportunity to celebrate and refresh its ties with Austria, home of the permanent IFAC Secretariat since 1978. IFAC receives a financial subsidy from the BMVIT ministry, which is noted (in German) in each issue of this Newsletter.

Each year an IFAC officer presents a technical lecture at an Austrian university, which is open to the public and free of charge. This provides the opportunity for the Austrian control community to interact with internationally-renowned technical experts. This year's lecture took place at the Technical University Vienna and was presented by IFAC President-Elect Frank Allgöwer. The lecture was titled: *Industry 4.0: Challenges and Opportunities for Optimization-Based Control*.

*Abstract: "With the vision of the smart factory of the future, the manufacturing industries are currently undergoing a fundamental new orientation on the basis of the Cyber-Physical Systems and Internet of Things and Services paradigms. All parts along the manufacturing chain are nowadays equipped with embedded computing, communication and networking capabilities and are expected to interact in an optimal way towards the goal of an energy and resource efficient, save and reliable production process. Through decentralized optimal decision-making and an appropriate communication among the networked individual parts, the whole production process of the future is expected to operate optimally. In this presentation the challenges and opportunities of Industry 4.0 for the field of automatic control are discussed. We will in particular investigate the potential impact of networked and optimization-based control for the fourth industrial revolution and will argue that some new developments in the control field, especially connected to the field of model predictive control, appear to be ideally suited to have a potential impact in the new Industry 4.0 environment."*

The traditional IFAC President's Dinner was held on Thursday evening after the technical lecture. This year's dinner took place at

Le Salzgrüess, a French restaurant in Vienna's First District and was attended by IFAC officers and staff members, as well as former IFAC presidents Vladimir Kucera (CZ) and Alberto Isidori (IT), representatives from other internationally-renowned organizations, IIASA Director General Prof. Pavel Kabat and IFIP Honorary Secretary Prof. A Min Tjoa, and members of the Austrian control engineering community.



**Laxenburg Mayor Ing. Robert Dienst with his wife Cynthia Festin-Dienst at the President's Dinner**

The first day of the meeting started off on Friday morning at the town hall in Laxenburg at the invitation of Mayor Robert Dienst. Laxenburg is proud that the IFAC Secretariat has been located at Schlossplatz 12 at the invitation of the Austrian government since 1978.

After the Friday lunch IFAC officers and staff were invited to the International Institute for Applied Systems Analysis (IIASA), also located in Laxenburg, at the invitation of Dr. Kabat. This presented the opportunity for the two organizations to learn about the others' work and to consider possibilities for future collaboration and projects.



**Left to right: Prof. Andreas Kugi (AT), TC 6.2 chair and EiC of IFAC Journal Control Engineering Practice, IFAC Technical Board Chair Prof. Francis (Frank) Doyle III, Katharina Willixhofer, IFAC Secretariat**

The informal meetings at the Secretariat office gave officers a chance to be updated on the status of various activities within IFAC and to receive reports from all officers. In addition these meetings offer the chance to prepare for the upcoming IFAC Council and Related Meetings, which are scheduled to be held in Istanbul, Turkey from 22-24 June 2016.

Plans for the 2017 Informal Officers' Meeting are already underway. The technical lecture is to be presented in Vienna by IFAC Executive Board Chair Sergio Bittanti.

## Photos from President's Dinner and Informal Meeting



**IFAC Officers Visit Prof. Pavel Kabat, Director General at IIASA, located in the Schloss Laxenburg/Laxenburg Palace. IIASA and IFAC are both proud to call Laxenburg, Austria home. Left to right: Immediate Past President Ian Craig (ZA), Prof. Pavel Kabat, IIASA Director General, President Janan Zaytoon (FR), Treasurer John Lygeros (CH), President-Elect Frank Allgöwer (DE), Technical Board Chair Francis (Frank) Doyle III (US), IFAC Secretary Kurt Schlacher (AT), Executive Board Chair Sergio Bittanti (IT.)**



**Ing. Walter Prinz from the Austrian BMVIT attended the President's Dinner.**



**IFAC Advisor and IFAC Foundation President Alberto Isidori (IT) at the President's Dinner**

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## Call for Nominations Harald Chestnut Control Engineering Textbook Prize

The Harold Chestnut Control Engineering Textbook Prize Selection Committee of the International Federation of Automatic Control (IFAC) calls for nominations for the Triennial Harold Chestnut Prize.

The Prize is awarded to the author(s) of a control engineering textbook that has most contributed to the education of control engineers. The Prize, consisting of a monetary award and a certificate, will be presented at the Closing Ceremony of the 20th IFAC World Congress that will be held in Toulouse, France in 2017.

To be considered, nominations must relate to books that are:

1. Written in one of the official IFAC languages, preferably in English; and
2. Published between September 1, 2008 and July 31, 2014.

Nominations should include:

- a) A nomination letter that states the full title, name(s) and address of the author(s), name of the textbook, date of publication, and name and address of the publisher;
- b) Evidence of the contribution/s of the textbook to the education of control engineers; and
- c) Any additional information that may support the Judging Process, as per the selection criteria listed below. It is important to note that only those book reviews in IFAC journals (Automatica, Control Engineering Practice, Engineering Applications of Artificial Intelligence, Journal of Process Control, Mechatronics), IFAC affiliated journals, journals of IFAC NMOs, and other reputable academic journals (e.g. IEEE Transactions) will be considered.

All nominations will be evaluated using the selection criteria:

- Originality and innovation
- General content in terms of the topics covered
- Clear applications to real problems
- Style:
  - presentation, readability and clarity in relation to the content
- Meeting educational objectives:
  - Clear statement of what students should be able to do
  - Worked examples and exercises
  - Software support
  - Multi-disciplinary examples (cross-boundary applications of control)
  - Use by practicing engineers

To be considered, nominations must be received by close of business on 1 February 2017. All submissions should be sent via e-mail as a single PDF file containing all required information.

If the Prize-winning textbook is written by more than one author, the monetary component of the Prize will be equally split among the authors with each author receiving a certificate. The winner(s) will be notified well in advance, to allow them to plan their attendance at the Award Ceremony to be held during the 20th IFAC World Congress in Toulouse, France (9-14 July 2017).

Please submit nominations to:

Richard M. Murray  
Chair, IFAC Harold Chestnut Control Engineering Textbook Prize Selection Committee  
California Institute of Technology  
Pasadena, CA 91125 USA  
murray@cds.caltech.edu

<http://www.ifac-control.org/awards/textbook-award>

## Honors for IFAC Advisor Brian Anderson

IFAC Advisor Brian Anderson (AU), who served as IFAC President from 1990-1993, was recently awarded the Companion of the Order of Australia for his outstanding achievement and service. The Companion, established by Queen Elizabeth in 1975, is awarded for eminent achievement and merit of the highest degree in service to Australia or humanity at large IFAC extends its congratulations to Brian for this most prestigious honor!



**Brian Anderson (pictured with wife Dianne Anderson)**

Further information, including photos, radio interview audio and a newspaper article from the Canberra Times, was referenced on the IFAC Facebook and Twitter social media feeds on 15 June 2016. Members of the control engineering community who are interested in following and participating in the IFAC social media links concerning Brian Anderson's recognition, as well as many other exciting topics, can click on the links to those channels from the IFAC website.

## EAAI Journal Handover Ceremony

Under the successful leadership of Editor-in-Chief, Bernard Grabot, Engineering Applications of Artificial Intelligence has seen the journal grow in both published articles and impact through a commitment to high quality. To honor Professor Grabot's valuable service to the community and allow him to hand the reigns over to the new Editor-in-Chief, Ajith Abraham, a ceremony was held at the 4th Annual International Conference on Intelligent Control and Automation Systems in Reims, France on 1 June 2016.



**Left to Right: IFAC President Janan Zaytoon, new EAAI Editor-in-Chief Ajith Abraham, Elsevier publisher Alison Waldron and Kevin Guelton, ICONS General Chair**

Both IFAC President Janan Zaytoon and Elsevier Publisher Alison Waldron expressed deep gratitude for Professor Grabot's leadership which saw significant improvements to Engineering Applications of Artificial Intelligence. From the time Professor Grabot became Editor-in-Chief of EAAI in September 2009, the journal grew 60% in annual published articles. In the same time the Impact Factor saw an increase of 64% bringing it to an impressive 2.207.

Through Professor Grabot's commitment to serving the community through providing rapid, high quality peer-review, the journal nearly tripled in submissions through his tenure. This is a testament the value the community placed on the journal under Professor Grabot's leadership.



**Bernard Grabot**

Incoming Editor-in-Chief Dr. Ajith Abraham also took a moment to thank Professor Grabot for handing over the Journal in such a healthy condition. Dr. Abraham will now lead the Journal in to the next phase of providing high quality content with guidance from the newly expanded Editorial Board comprised of leaders of both the academic and industrial communities.

Submitted by Alison Waldron, Elsevier

## Calendar of IFAC Events

Title	2016	Place	Further information
IEEE (CSS) and IEEE (SSIT) IFAC Conference on Norbert Wiener in the 21st Century	July 13 – 15	Melbourne Australia	<a href="http://21stcenturywiener.org/">http://21stcenturywiener.org/</a> e-mail: <a href="mailto:NorbertWiener-2016@unimelb.edu.au">NorbertWiener-2016@unimelb.edu.au</a>
Univ. of Novi Sad, IFAC, IUTAM, IEEE B. of Serbia & M. Conference on Fractional Differentiation and its Applications ICFDA 2016	July 18 – 20	Novi Sad Republic of Serbia	<a href="http://www.icfda16.com/public/">http://www.icfda16.com/public/</a> e-mail: <a href="mailto:icfda16@uns.ac.rs">icfda16@uns.ac.rs</a>
13th Intern. INSTICC Conference on Informatics in Control, Automation and Robotics (in cooperation with IFAC) ICINCO 2016	July 29 – 31	Lisbon Portugal	<a href="http://www.icinco.org/">http://www.icinco.org/</a> e-mail: <a href="mailto:icinco.secretariat@insticc.org">icinco.secretariat@insticc.org</a>
5th IFAC Conference on Sensing, Control and Automation Technologies for Agriculture AGRICONTROL 2016	August 14 – 17	Seattle, WA USA	<a href="http://ifac.cahnrs.wsu.edu/">http://ifac.cahnrs.wsu.edu/</a> e-mail: <a href="mailto:manoj.karkee@wsu.edu">manoj.karkee@wsu.edu</a>
20th IFAC Symposium on Automatic Control in Aerospace ACA 2016	August 21 – 25	Sherbrooke, Québec Canada	<a href="http://aca2016.ngcaerospace.com/">http://aca2016.ngcaerospace.com/</a> e-mail: <a href="mailto:aca2016@ngcaerospace.com">aca2016@ngcaerospace.com</a>
10th IFAC Symposium on Non-Linear Control Systems NOLCOS 2016	August 23 – 25	Monterey, CA USA	<a href="https://www.math.ucdavis.edu/static/conferences/nolcos_2016/">https://www.math.ucdavis.edu/static/conferences/nolcos_2016/</a> e-mail: <a href="mailto:NOLCOS2016@math.ucdavis.edu">NOLCOS2016@math.ucdavis.edu</a>
13th IFAC/IFIP/IFORS/IEA Symposium on Analysis, Design, and Evaluation of Human-Machine Systems HMS 2016	Aug. – Sept. 30 – 02	Kyoto Japan	<a href="http://www.syn.me.kyoto-u.ac.jp/IF-ACHMS2016/">http://www.syn.me.kyoto-u.ac.jp/IF-ACHMS2016/</a> e-mail: <a href="mailto:sec-ifachms2016@me.kyoto-u.ac.jp">sec-ifachms2016@me.kyoto-u.ac.jp</a>
17th IFAC and others Symposium on Mining, Mineral and Metal Processing MMM 2016	Aug. – Sept. 31 – 02	Vienna Austria	<a href="http://www.ifacmmm2016.org/">http://www.ifacmmm2016.org/</a> e-mail: <a href="mailto:contact@ifacmmm2016.org">contact@ifacmmm2016.org</a>
7th IFAC and others Symposium on Mechatronic Systems MECHATRONICS 2016	September 05 – 08	Loughborough Uni- versity United Kingdom	<a href="http://www.mechatronics2016.lboro.ac.uk/">http://www.mechatronics2016.lboro.ac.uk/</a> e-mail: <a href="mailto:mechatronics2016.lboro.ac.uk">mechatronics2016.lboro.ac.uk</a>
6th IFAC Tokyo Institute of Techn. Workshop on Distributed Estimation and Control in Networked Systems NecSys 2016	September 08 – 09	Tokyo Japan	<a href="http://www.necsys2016.ctrl.titech.ac.jp/">http://www.necsys2016.ctrl.titech.ac.jp/</a> e-mail: not yet available
9th EUROSIM IFAC Congress on Modelling and Simulation EUROSIM 2016	September 12 – 15	Oulo Finland	<a href="http://eurosims2016.automaatioseura.fi/">http://eurosims2016.automaatioseura.fi/</a> e-mail: <a href="mailto:office@automaatioseura.fi">office@automaatioseura.fi</a>
10th IFAC Conference on Control Applications in Marine Systems CAMS 2016	September 13 – 16	Trondheim Norway	<a href="http://www.ifac-cams2016.com/">http://www.ifac-cams2016.com/</a> e-mail: <a href="mailto:cams@ifac-cams2016.com">cams@ifac-cams2016.com</a>
12th APCA IFAC Portuguese Conference on Automatic Control CONTROLO 2016	September 14 – 16	Guimarães Portugal	<a href="http://controlo2016.com">http://controlo2016.com</a> e-mail: <a href="mailto:controlo2016@dei.uminho.pt">controlo2016@dei.uminho.pt</a>
2nd IFAC Workshop on Thermodynamic Foundations for a Mathematical Systems Theory TFMST 2016	September 28 – 30	Vigo Spain	<a href="http://tfmst2016.com">http://tfmst2016.com</a> e-mail: <a href="mailto:tfmstii@viajeseci.es">tfmstii@viajeseci.es</a>
14th IFAC/IEEE Conference on Programmable Devices and Embedded Systems PDES 2016	October 05 – 07	Brno Czech Republic	<a href="http://pdes-conference.eu/">http://pdes-conference.eu/</a> e-mail: <a href="mailto:pdes2016@feec.vutbr.cz">pdes2016@feec.vutbr.cz</a>
6th IFAC, CACHE, IEEE CSS TC on Systems Biology Conference on Foundation of Systems Biology in Engineering FOSBE 2016	October 09 – 12	Magdeburg Germany	<a href="http://www.fosbe2016.ovgu.de/">http://www.fosbe2016.ovgu.de/</a> e-mail: <a href="mailto:fosbe2016-l@ovgu.de">fosbe2016-l@ovgu.de</a>
IFAC CZ&Slov. Nat. Com. CIGRE/CZ Nat. Com. CIRED Workshop on Control of Transmission and Distribution Smart Grids CTDSG 2016	October 11 – 13	Prague Czech Republic	<a href="http://www.ifac.ctdsg2016.cz/">http://www.ifac.ctdsg2016.cz/</a> e-mail: <a href="mailto:secretary@ifac.ctdsg2016.cz">secretary@ifac.ctdsg2016.cz</a>
Conference on Latin American Conference of Automatic Control (in cooperation with IFAC) XVII CLCA 2016	October 13 – 15	Medellin Colombia	<a href="http://www.eafit.edu.co/minisitios/clca-eafit/Paginas/default.aspx">http://www.eafit.edu.co/minisitios/clca-eafit/Paginas/default.aspx</a> e-mail: <a href="mailto:oquinte1@eafit.edu.co">oquinte1@eafit.edu.co</a>
1st IFAC/IFIP Workshop on Control and Computers WOCO 2016	October 18 – 20	Valencia Spain	<a href="http://woco2016.upv.es/">http://woco2016.upv.es/</a> e-mail: not yet available
3rd IFAC/IFIP WG 5.7/ESRA Workshop on Advanced Maintenance Engineering, Service and Technology AMEST 2016	October 19 – 21	Biarritz France	<a href="http://ifac-amest16.com/">http://ifac-amest16.com/</a> e-mail: not yet available

## Calendar of IFAC Events

Title	2016	Place	Further information
17th IFAC EUROSIM Conference on Technology, Culture and International Stability TECIS 2016	October 26 – 28	Durres Albania	<a href="http://tecis2016.ubt-uni.net/">http://tecis2016.ubt-uni.net/</a> e-mail: <a href="mailto:tecis2016@ubt-uni.net">tecis2016@ubt-uni.net</a>
OTM IFAC, IFIP, OMG, IIC, GIC Workshop on Enterprise Integration, Interoperability and Networking EI2N 2016	October 26 – 27	Rhodes Greece	<a href="http://otmconferences.org/index.php/workshops/ei2n-2016">http://otmconferences.org/index.php/workshops/ei2n-2016</a> e-mail: not yet available
IEEE - CSS, The Asian Control Association, IFAC Conference on Australian Control Conference (in cooperation with IFAC) AUCC 2016	November 03 – 04	Newcastle Australia	<a href="http://www.aucc2016.org.au/">http://www.aucc2016.org.au/</a> e-mail: not yet available
4th IFAC Symposium on Telematics Applications TA 2016	November 06 – 09	Porto Alegre - RS Brazil	<a href="http://ifactelematics2016.ece.ufrgs.br/">http://ifactelematics2016.ece.ufrgs.br/</a> e-mail: <a href="mailto:ifactelematics2016@ece.ufrgs.br">ifactelematics2016@ece.ufrgs.br</a>
8th INSTICC (SCITEPRESS) IFAC et al. Conference on International Joint Conference on Computational Intelligence IJCCI 2016	November 09 – 11	Porto Portugal	<a href="http://www.ijcci.org/">http://www.ijcci.org/</a> e-mail: <a href="mailto:ijcci.secretariat@insticc.org">ijcci.secretariat@insticc.org</a>
13th European et al. IFAC Workshop on Advanced Control and Diagnosis ACD 2016	November 17 – 18	Lille France	<a href="http://www.acd2016.eu/">http://www.acd2016.eu/</a> e-mail: <a href="mailto:acd2016@gandi.fr">acd2016@gandi.fr</a>
12th IFAC Workshop on Intelligent Manufacturing Systems IMS 2016	December 05 – 07	Austin USA	<a href="http://www.ifacims2016.com/">http://www.ifacims2016.com/</a> e-mail: <a href="mailto:contact@imscenter.net">contact@imscenter.net</a>
1st IFAC IEEE, EECS, NSF Conference on Cyber-Physical & Human-Systems CPHS 2016	December 07 – 09	Florianopolis Brazil	<a href="http://www.cphs2016.org/">http://www.cphs2016.org/</a> e-mail: not yet available
Title	2017	Place	Further information
Conference on American Control Conference (in cooperation with IFAC) ACC 2017	May 07 – 09	Seattle, WA USA	<a href="http://acc2017.a2c2.org/">http://acc2017.a2c2.org/</a> e-mail: <a href="mailto:jingsun@umich.edu">jingsun@umich.edu</a>
20th IFAC World Congress 2017	July 09 – 14	Toulouse France	<a href="http://www.ifac2017.org/">http://www.ifac2017.org/</a> e-mail: <a href="mailto:contact@ifac2017.org">contact@ifac2017.org</a>
IEEE - CSS, IFAC, SICE, ICROS Conference on Asian Control Conference (in cooperation with IFAC) ASCC 2017	December 17 – 20	Gold Coast Australia	<a href="https://www.ascc2017.com/">https://www.ascc2017.com/</a> e-mail: <a href="mailto:l.vlacic@griffith.edu.au">l.vlacic@griffith.edu.au</a>
Title	2018	Place	Further information
Conference on American Control Conference (in cooperation with IFAC) ACC 2018	June 27 – 29	Milwaukee, WI USA	<a href="http://not yet available">http://not yet available</a> e-mail: not yet available
18th IFAC/IEEE CSS Symposium on System Identification SYSID 2018	July 09 – 11	Stockholm Sweden	<a href="http://not yet available">http://not yet available</a> e-mail: not yet available
10th IFAC/Polish Academy of Sciences Symposium on Fault Detection, Supervision and Safety for Technical Processes SAFEPROCESS 2018	August 29 – 31	Warsaw Poland	<a href="http://not yet available">http://not yet available</a> e-mail: not yet available
9th IFAC/IEEE CSS Symposium on Robust Control Design ROCOND 2018	September 03 – 05	Florianópolis Brazil	<a href="http://not yet available">http://not yet available</a> e-mail: not yet available

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