IFAC-PapersOnLine Update

No.4
August 2016

Recent years have borne witness to the rapid and fluctuating evolution of the scientific publication model. Printed-paper versions of journals and conference proceedings have almost disappeared. The dominant model where the reader is charged has moved to a balanced model with open-access publications, some in gold open-access where the author is charged a publishing fee, others in green open access versions. Meanwhile, authors no longer hesitate to spread their preprints or peer-reviewed post-prints via personal websites, via public repositories such as arXiv or HAL, as well as via social networking platforms (ResearchGate, Academia.edu, etc.). This is combined with the rapid growth of the number of scientific contributions, new topics, new journals, new conferences, etc. The key issues are no longer related to the possibility to access a precise publication, but the scientific quality of published work, the ease of access, the indexing, the capacity to navigate in through the data, the possibility in establishing connections at the origins of breakthrough findings.

In this changing environment, IFAC is proud to provide an open-access offer for all of its proceedings. In 2008 the www.ifac-papersonline.net website was started, providing free downloads of the proceedings of all IFAC World Congresses held from the 15th World Congress of 2002 in Barcelona, and almost all of the IFAC-sponsored workshops, conferences and symposia that have been held since 2006. The site is open access in nature - no charge is made to individuals for reading or downloading. The high quality of the publications is guaranteed by the IFAC Copyright conditions (www.ifac-control.org/publications/copyright-conditions) and most importantly thanks to the devoted work of each event's International Program Committee under the supervision of the IFAC Technical Committee Chairs.

In 2015, a major evolution of IFAC-PapersOnLine occurred: it is now hosted on the Elsevier ScienceDirect platform (www.journals.elsevier.com/ifac-papersonline). The copyright conditions have been updated and open-access is maintained, but the platform offers improved navigation, searchability, indexing and connectivity. The evolution imposed new processing of the manuscripts starting from submission up to on-line publication. This has been done with the coordinated efforts of Pradeep Misra for updating and improving the PaperCept submission tool, of the Elsevier team supervised by Alison Waldron for the ScienceDirect platform fitting to IFAC require-

ments, of all congress, symposia and workshop program chairs who are responsible for the quality of the incoming material, and all this under the supervision of the IFAC-PapersOnLine Editor-in-Chief, Juan Antonio de la Puente.

**Juan de la Puente,
POL Editor-in-Chief**

The current visible achievements of this evolution are:

- All 2015 IFAC proceedings are published as issues 1 to 30 of IFAC-PapersOnLine Volume 48. It gives a total of 2906 papers. All are accessible at http://www.sciencedirect.com/science/journal/24058963.

- Statistics as of June 2016 indicate that almost 300.000 requests have been made to the Volume 48 papers and more than half of these requests were followed by a download.

- All 2016 IFAC events proceedings are being published in Volume 49 and are accessible shortly after the event takes place. For example, the proceedings of the 14th IFAC Symposium on Large Scale Complex Systems held beginning 28 May 2016 were available online as of 8 June.

- All proceedings that were previously hosted on www.ifac-papersonline.net have been incorporated in ScienceDirect as IFAC Proceedings Volumes and are accessible at http://www.sciencedirect.com/science/journal/14746670. These cover the period from 2002 to 2014, and are gathered as Volumes 35 to 47, one per year, with a gap for years 2003-2005.

- The evolution has made possible improved indexing of the papers published in IFAC events proceedings. All papers are perfectly indexed in Google Scholar. Indexing by Scopus is in

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/nahs

IFAC Papers-OnLine Update

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order for the latest IFAC-PapersOnLine publications and is being slightly delayed for the past publications. Thompson Reuters agreed to include IFAC POL in its Emerging Sciences Citation Index (ESCI), as first step towards SCI.

• The roles and responsibility of the Editorial Board is fully organized with an Editor-in-Chief, an Advisor (the IFAC Technical Board Chair) and 9 Editors (the IFAC Coordinating Committee Chairs).

In the near future these achievements will be followed by further improvements to the indexing, in particularly by Thompson Reuters, as well as full scanning of all paper printed pro ceedings edited before 2008. The scanned material will then be included in the ScienceDirect platform as IFAC Proceedings Volumes 1 to 40.

Dimitri Peaucelle, POL Deputy Editor-in-Chief

We look forward to achieving this task before the 20th IFAC World Congress in Toulouse. The World Congress in 2017 is the time to celebrate IFAC's 60th anniversary. Having easy, user-friendly open-access to all previous IFAC publications is one of the IFAC history-related events of year 2017.

Submitted by Juan de la Puente, POL Editor-in-Chief and Dimitri Peaucelle, POL Deputy Editor-in-Chief

IFAC Fellows
2014-2017

The IFAC Fellow Award is given to persons who have made outstanding and extraordinary contributions in the field of interest of IFAC, in the role as an Engineer/Scientist, Technical Leader, or Educator. The first Fellows were elected at the IFAC World Congress in Prague in July 2005. The Fellows are now awarded on a triennial basis, instead of yearly as they were through 2011.

The 2014-2017 IFAC Fellows were voted on by the IFAC Council in June 2016. 34 Fellows were chosen by the Fellow Selection Committee chaired by Robert Bitmead (US). They will receive their certificates and pins at the 2017 IFAC World Congress in Toulouse, France.

The 2014-2017 IFAC Fellows are:

Annaswamy, Anuradha Mandayam
Astolfi, Alessandro
Baras, John S.
Bullo, Francesco
Canudas de Wit, Carlos Alfonso
Dahleh, Munther A.
Dumont, Guy Albert
Fradkov, Alexander Lvovich
Fu, Li-Chen
Georgiou, Tryphon Thomas
Glover, Keith
Goodall, Roger Morgan
Hespanha, Joao Pedro
Ho, Yu-Chi
Ikeda, Masao
Lafortune, Stéphane
Lamnabhi-Lagarrigue, Francoise
Liberzon, Daniel
Mareels, Iven Michiel
Ogunnaike, Babatunde Ayodeji
Ortega, Romeo
Parisini, Thomas
Polycarpou, Marios
Rawlings, James B.
Samad, Tariq
Sastry, Sosale Shankara
Seborg, Dale Edward
Shamma, Jeff S.
Skelton, Robert E.
Van der Schaft, Arjan
Varaiya, Pravin
Vidyasagar, Mathukumalli
Yin, Gang George
Zhang, Ji-Feng

The citations of the 2014-2017 IFAC Fellows, as well as the listing of all Fellows, can be found on the IFAC website at:

http://www.ifac-control.org/awards/ifac-fellows

Obituary:
Rudolf Kalman

The Kalman filter! This concept is well known by many. Indeed, those who are at home in the technical world even know that nearly all our devices which are meant to safeguard a situation or a target state in a secure way, contain a Kalman filter.

But what is known by fewer people is that this device was born as a product of the modern systems theory and more precisely, by the discovery of the mathematical basics in control theory that bears such an important role in our technical thinking as John von Neumann's basic foundations do in the construction of computers.

Rudolf Kalman died on 2 July 2016, aged 86, still in his full mental capacity.

He summarised the discernible and calculable signals coming from systems performing a high variety of tasks and operating amidst various external influences, into a single mathematical structure which is capable to filter out the characteristics of the desirable state by using a learning, adaptation algorithm, and filter them from any disturbances. Hence comes the naming of both the concept and the device. This filtering warrants the target tracking both in its physical reality and notional interpretation, should it be in electronic networks or large economic systems. It has enabled to calculate and analyse the systems' past behaviour and also their future options. Based on this, re-evaluating the past deviations and events, predicting the next ones to come have become possible but also estimating the limits and constraints of the calculability of, and deviations from them.

The starting point is a conceptual, philosophical idea: everything is a system or the system of systems, but the final, partly virtual elementary particles of physics. Systems science tries to build a framework of common features of systems for observation and possible control of system operations, movements, changes. This is the subject of IFAC and the common language of system observation and control in mathematics, nowadays realized mostly by computer programs.

Systems are moving, changing by their own internal features and external influences. These external influences are partly controlled by our control instruments and intentions and by noises and disturbances. Good examples are vehicles by which we try to reach our destination and the disturbances due to meteorological phenomena.

The Kalman filter is the general device for separation of useful motions and changes from the disturbances. It observes the signals of the system behavior by statistical-probabilistic algorithmic, computable methods and learns by these observations the genuine nature of the system behavior and the phenomena of disturbances. This knowledge is fed back to the system control and by that maintains the system on the desired root.

This online observational, statistical, probabilistic calculation was a complicated, expensive task at the early period of the filter idea and used first for the control of rockets, missiles. Now, it can be realized in single complex chips and is applied in many millions of moving objects, cars, airplanes, and GPS-based instruments such as smart phones.

It is not only the millions of pieces of equipment but also hundreds of thousands of researchers, developers and maintenance experts who have been nourished from this pattern of thoughts. The extraordinary impact is demonstrated by the vast number of references in publications and by the thousands of new patents each year.

Kalman himself regarded his own filter despite its tremendous importance and success as a finger exercise only in his general mathematical opus of systems theory. He had been working until his death on the unsolved problems of sys-

tems calculations and he had raised questions which we have been sluggish or not courageous enough to ponder on.

Kalman was taken by his father from the torments of the Second World War to the US when he was 13, where he studied with the pioneers of the mathematical-technical elite on the Western coast and it was here that his radiant and permanently creating talent was discovered. His genius was recognised in the US and he had received the most prestigious awards there as well as in other countries with highly developed scientific culture. His being awarded by these prizes is the yardstick of their real value. He was an honorary member of numerous academies and received honorary doctorates from high ranking universities.

Rudolf Kalman (photo courtesy of ETHZ)

Kalman always stressed his Hungarian origins and he spoke his native Hungarian brilliantly without any accent. After the cold war period he rendered ever more frequent visits to Hungary where he had the honorary membership of our Academy of Sciences but he could feel at home especially at SZTAKI, the Institute of Computer Science and Control in Budapest, where he had his own studio and where he kept a substantial portion of his Zurich library.

He was a genuine intellectual who was open in his thinking, and had an amazing knowledge of and interest in music. When at home he regularly attended concert and opera performances and made us astound by his immense knowledge in history and especially cultural history.

The big gift in Kalman's life was his wife, a lady of high culture and origins in Greek Alexandria. From his big family, one of his daughters volunteered in works of charity in Hungary for about a year. Recently he wrote us that he was preparing for his next visit in autumn to Hungary. From now, we can only take care of the stimulating heritage he had left us by his genius.

Submitted by Tibor Vamos (HU), IFAC Advisor
IFAC President 1981-1984

SSSC and TDS 2016
22-24 June 2016
Istanbul, Turkey

The 6th Symposium on System Structure and Control (SSSC 2016) and 13th Workshop on Time Delay Systems (TDS 2016) were held jointly in Istanbul, Turkey. This was the second time these two meetings of the IFAC Technical Committee 2.2, Linear Systems, were held jointly in parallel sessions, the first one was in Grenoble in 2013. The meetings were co-sponsored by several TCs of the CC1 and CC2. The venue was Taskısla Building of Istanbul Technical University (ITU) near Taksim Square. Parallel to the 2016 edition of these two events, Turkish NMO, hosted the IFAC Council and Related Meetings at the nearby Intercontinental Hotel. Hence, some of the Council and Related Meetings participants had the chance to attend SSSC 2016 & TDS 2016.

Bospurus cruise

The IPC chair of SSSC 2016 was Anna Maria Perdon (Italy) and the IPC Co-Chairs of TDS 2016 were Tomas Vyhlidal (Czech Republic) and Wim Michiels (Belgium). The compositions of the IPCs were such that membership was comprised of members from more than 20 different countries. There were a total of 102 paper submissions to these meetings, including invited session papers (each event had one invited session), and after a careful evaluation by the IPCs, 77 papers were accepted and presented. The corresponding authors of the accepted SSSC 2016 papers were from 14 different countries, with the top three countries being Turkey (8), UK (7) and France (5). Similarly, for TDS 2016, corresponding authors were from 14 different countries, top three countries being Turkey (14), USA (10) and France and Germany (tied with 6 contributions each). This diversity resulted in the productive exchange of ideas during and after the presentations. As usual, all presented papers will appear in IFAC-PapersOnline, maintained by Elsevier. There are separate proceedings for SSSC 2016 and TDS 2016. The editor of the joint events was Ibrahim Beklan Küçükdemiral from Yıldız Technical University, Istanbul.

The 2016 edition of this joint event opened up with a special session, consisting of two papers dedicated to the memory of Uwe Helmke, who was a major contributor in the field. We learned sadly that he passed away on 1 March 2016 suddenly at the age of 63. He had a paper submitted and accepted to TDS 2016; in the special session Helmke's co-author, Erik Verriest, presented their latest work. Additionally,

the special session included an invited presentation by Paul Fuhrmann, who was a long-time friend and collaborator of Uwe Helmke.

For the joint SSSC 2016 & TDS 2016 the total number of participants was 92 and 29 of them were from Turkey. Students comprised about 1/3 of the participants. As for the social events, the National Organization Committee arranged a Welcome Reception on June 22 at the courtyard of the historic Taskısla building. The highlight of the social events was the Banquet Dinner in the evening of June 23 on a cruise boat sailing on the Bosphorus separating Asia and Europe. The social events and reduced registration fee for students were made possible by the industrial sponsors: ASELSAN, Mitsubishi Electric, Beckhoff, Acrome, AVL, as well as ITU and Elsevier.

Submitted by Hitay Özbay, NOC Chair
Ali Fuat Ergenç, NOC Co-Chair

IFAC Council and Related Meetings
22-24 June 2016
Istanbul, Turkey

The IFAC Council and Related Meetings took place in Istanbul, Turkey from 22-24 June 2016 and were held in conjunction with SSSC and TDS 2016. Committee and task force meetings were held 22-23 June, with the Council meeting taking place on 24 June. On behalf of the entire IFAC family we would like to thank the Turkish NMO for their hospitality and wonderful organization of the meetings and the facilities, as well as the Bospurus boat cruise. Special recognition is extended to Profs. Ibrahim Eksin, M. Turan Söylemez, Hitay Özbay, and Ali Fuat Ergenç for their super organization.

The IFAC Council is responsible to the General Assembly for the management of the Federation. It receives its mandate from the General Assembly and reports to it on the state of the Federation not less frequently than at each Triennial Congress.

From time to time task forces are appointed to work on particular topics of significance for the IFAC community. Stephen Kahne, chair of the IFAC History Task Force reported to the Council concerning the IFAC 60-related work of his task force. An updateable e-book is being written and will be made available via the IFAC website. Francoise Lamnabhi-Lagarrigue and the Research Agenda Task Force is working on the report "Systems and Control Science for the Future of Humanity" to bring about further awareness of control engineering issues for interested persons and agencies.

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Major Medals and Fellow Awards were presented by the Awards Chair and the Fellow Selection Chair and voted on in closed Council.

The IFAC Fellows are listed on page 2 of this Newsletter. The list of names, as well as the citations, can also be found on the IFAC website under http://www.ifac-control.org/awards/ifac-fellows. The Major Awards have been published on the IFAC website under http://www.ifac-control.org/awards/major-awards, are listed below, and will be explored in more depth in a forthcoming issue of this Newsletter.

Winners of the Major Awards that were voted on in Istanbul are listed below:

Quazza Medal Winner 2017
Roger Brockett (US)

Nichols Medal Winner 2017
Lennart Ljung (SE)

Manfred Thoma Winner 2017 (NEW)
Ming Cao (NL)

Industrial Achievement Award 2017
Francesco Borrelli, David Germann, Dejan Kihas, Daniel Pachner, Jaroslav Pekar, Greg Stewart (Honeywell team, CA, CZ, US)

One further agenda item was the second round of bids for the 2023 IFAC World Congress. Australia, Japan, and the US presented their final bids. Japan was chosen by the Council to host the 2023 IFAC World Congress in Yokohama (Tokyo area), with Hajime Asama to serve as the IFAC president for the 2020-2023 triennium.

Hajime Asama received his B.S., M.S., and Dr. Eng. in Engineering from the University of Tokyo, in 1982, 1984 and 1989, respectively. He was a Research Scientist, etc. in RIKEN Japan from 1986 to 2002. He became a professor of RACE, the University of Tokyo in 2002, and a professor of the School of Engineering, the University of Tokyo since 2009. He received RSJ Distinguished Service Award in 2013, JSME Robotics and Mechatronics Award in 2009, etc.

Hajime Asama

He was the vice-president of the Robotics Society of Japan in 2011-2012. an AdCom member of IEEE Robotics and Automation Society from 2007-2009, the president of International Society for Intelligent Autonomous Systems in 2014, and an associate editor of Control Engineering Practice, Journal of Robotics and Au-

tonomous Systems, and Journal of Field Robotics. He is a Fellow of JSME and RSJ.

Hajime Asama has held several roles in IFAC over the years. He is currently the chair of CC7 (Transportation and Vehicles Systems), and also serves as the chair of the IFAC committee in the Science Council of Japan, the Japanese IFAC National Member Organization (NMO). In addition, Asama served as TC 7.5 (Intelligent Autonomous Vehicles) chair from 2002 to 2005. His main research interests are distributed autonomous robotic systems, smart spaces, service engineering, embodied brain systems, service robotics including robot technology for disaster response and decommissioning of nuclear power plants.

Industry issues were also discussed. Tariq Samad, chair of the Pilot Industry Committee, reported concerning recommendations to help increase industrial participation in IFAC activities, as industrial participation has been declining over the past several years. Constitutional amendments will be voted on at the General Assembly in Toulouse that, if passed, would add a nonvoting industry representative to the the IFAC Council as well as a Technical Board Vice-Chair for Industry Activities. This new position would be a TB vice-chair with no CC oversight duties in addition to the two current TB vice chair positions who oversee assigned CCs and participate in the event evaluation process.

Updates about the upcoming World Congresses in Toulouse, FR (2017) and Berlin, DE (2020) were provided. Dimitri Peaucelle, NOC chair, presented information about IFAC 2017. A Twitter presence with the hashtag #IFAC2017 has been established. A dedicated web page has been created to describe the demonstrator paper category and encourage such submissions in categories such as education, sessions with drones, robotics, and autonomous cars, to give a few examples.)

Frank Allgöwer, IFAC President-Elect, presented information about the plans for IFAC 2020, which is scheduled to take place from 13-17 July 2020. There has been a local venue change and the Congress is now planned to be held at ESTREL Congress and Convention Centre. Klaus Janschek will serve as the Coordination Chair.

The next IFAC Council meeting will take place before the opening ceremony (as is IFAC tradition) at the IFAC World Congress in Toulouse, France on 9 July 2017.

IFAC Blog and Social Media Update

The IFAC Blog, which is moderated by IFAC Social Media Editor Jakob Stoustrup, has now been online for almost a year. The blog is an additional means of connecting to and communicating with the control engineering community worldwide.

Here is a list with some examples of topics that have been discussed by the IFAC Blog contributors:

- Water, a global and human issue for tomorrow, a necessary and vital automation

- Can automation and automatic control be a game?

- Technology paving the way for the next generation of process control

- Translate or die!

- Is there Pervasive Control out there? "Sustainable" control of offshore wind turbines

- Wireless Automation and Industrial Internet

- Controlling an autonomous refuse handling system

- Autonomous road vehicles: a modern challenge for robust control

- A Modern Control Education

- Traffic Management in the Era of Vehicle Automation and Communication Systems (VACS) - Do you give up control?

- Automation and Bionic Technologies to Assist an Ageing Population

- Consumer-driven automation for smartening the grid

Each blog article is referenced on the IFAC Twitter account and the IFAC Facebook account and generally they have stimulated very good discussions on those social media outlets. The web analytics show that the IFAC Blog and related discussions on social media tend to engage users from outside the conventional IFAC community and thus offers the potential for IFAC to reach new audiences.

If you are interested in contributing to the IFAC Blog, please send an email to the IFAC Social Media Liaison, Prof. Jakob Stoustrup, jakob@es.aau.dk. Manuscripts should be short and written for a general audience, as well as suited for stimulating discussion in social media.

IFAC encourages all members of our community with Facebook and/or Twitter accounts to "Like" or "Tweet" the IFAC Blog articles. This is easy: just go to the IFAC Blog at blog.ifac-control.org and click on the Facebook/Twitter icons at the end of each article.

Submitted by Jakob Stoustrup, IFAC Social Media Editor

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

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

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Calendar of IFAC Events

Title	2016	Place	Further information
13th IFAC/IFIP/IFORS/IEA Symposium on Analysis, Design, and Evaluation of Human-Machine Systems HMS 2016	Aug. – Sept. 30 – 02	Kyoto Japan	http://www.syn.me.kyoto-u.ac.jp/IFACHMS2016/ e-mail: sec-ifachms2016@me.kyoto-u.ac.jp
17th IFAC and others Symposium on Mining, Mineral and Metal Processing MMM 2016	Aug. – Sept. 31 – 02	Vienna Austria	http://www.ifacmmm2016.org/ e-mail: contact@ifacmmm2016.org
7th IFAC and others Symposium on Mechatronic Systems MECHATRONICS 2016	September 05 – 08	Loughborough University United Kingdom	http://www.mechatronics2016.lboro.ac.uk/ e-mail: mechatronics2016.lboro.ac.uk
6th IFAC Tokyo Institute of Techn. Workshop on Distributed Estimation and Control in Networked Systems NecSys 2016	September 08 – 09	Tokyo Japan	http://www.necsys2016.ctrl.titech.ac.jp/ e-mail: not yet available
9th EUROSIM IFAC Congress on Modelling and Simulation EUROSIM 2016	September 12 – 15	Oulu Finland	http://eurosim2016.automaatioseura.fi/ e-mail: office@automaatioseura.fi
10th IFAC Conference on Control Applications in Marine Systems CAMS 2016	September 13 – 16	Trondheim Norway	http://www.ifac-cams2016.com/ e-mail: cams@ifac-cams2016.com
12th APCA IFAC Portugese Conference on Automatic Control CONTROLO 2016	September 14 – 16	Guimarães Portugal	http://controlo2016.com e-mail: controlo2016@dei.uminho.pt
2nd IFAC Workshop on Thermodynamic Foundations for a Mathematical Systems Theory TFMST 2016	September 28 – 30	Vigo Spain	http://tfmst2016.com e-mail: tfmstii@viajeseci.es
14th IFAC/IEEE Conference on Programmable Devices and Embedded Systems PDES 2016	October 05 – 07	Brno Czech Republic	http://pdes-conference.eu/ e-mail: pdes2016@feec.vutbr.cz
6th IFAC, CACHE, IEEE CSS TC on Systems Biology Conference on Foundation of Systems Biology in Engineering FOSBE 2016	October 09 – 12	Magdeburg Germany	http://www.fosbe2016.ovgu.de/ e-mail: fosbe2016-I@ovgu.de
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	http://www.ifac.ctdsg2016.cz/ e-mail: secretary@ifac.ctdsg2016.cz
Conference on Latin American Conference of Automatic Control (in cooperation with IFAC) XVII CLCA 2016	October 13 – 15	Medellin Colombia	http://www.eafit.edu.co/minisitios/clca-eafit/Paginas/default.aspx e-mail: oquinte1@eafit.edu.co
1st IFAC/IFIP Workshop on Control and Computers WOCO 2016	October 18 – 20	Valencia Spain	http://woco2016.upv.es/ e-mail: not yet available
3rd IFAC/IFIP WG 5.7/ESRA Workshop on Advanced Maintenance Engineering, Service and Technology AMEST 2016	October 19 – 21	Biarritz France	http://ifac-amest16.com/ e-mail: not yet available
17th IFAC EUROSIM Conference on Technology, Culture and International Stability TECIS 2016	October 26 – 28	Durres Albania	http://tecis2016.ubt-uni.net/ e-mail: tecis2016@ubt-uni.net
OTM IFAC, IFIP, OMG, IIC, GIC Workshop on Enterprise Integration, Interoperability and Networking EI2N 2016	October 26 – 27	Rhodes Greece	http://otmconferences.org/index.php/workshops/ei2n-2016 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	http://www.aucc2016.org.au/ e-mail: not yet available
4th IFAC Symposium on Telematics Applications TA 2016	November 06 – 09	Porto Alegre - RS Brazil	http://ifactelematics2016.ece.ufrgs.br/ e-mail: ifactelematics2016@ece.ufrgs.br
8th INSTICC (SCITEPRESS) IFAC et al. Conference on International Joint Conference on Computational Intelligence IJCCI 2016	November 09 – 11	Porto Portugal	http://www.ijcci.org/ e-mail: ijcci.secretariat@insticc.org

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Title	2016	Place	Further information
13th European et al. IFAC Workshop on Advanced Control and Diagnosis ACD 2016	November 17 – 18	Lille France	http://www.acd2016.eu/ e-mail: acd2016@gandi.fr
12th IFAC Workshop on Intelligent Manufacturing Systems IMS 2016	December 05 – 07	Austin, TX USA	http://www.ifacims2016.com/ e-mail: contact@imscenter.net
1st IFAC IEEE, EECI, NSF Conference on Cyber-Physical & Human-Systems CPHS 2016	December 07 – 09	Florianopolis Brazil	http://www.cphs2016.org/ e-mail: not yet available
Title	**2017**	**Place**	**Further information**
Conference on American Control Conference (in cooperation with IFAC) ACC 2017	May 24 – 27	Seattle, WA USA	http://acc2017.a2c2.org/ e-mail: jingsun@umich.edu
20th IFAC World Congress 2017	July 09 – 14	Toulouse France	http://www.ifac2017.org/ e-mail: contact@ifac2017.org
IEEE - CSS, IFAC, SICE, ICROS Conference on Asian Control Conference (in cooperation with IFAC) ASCC 2017	December 17 – 20	Gold Coast Australia	https://www.ascc2017.com/ e-mail: l.vlacic@griffith.edu.au
Title	**2018**	**Place**	**Further information**
9th TU Vienna IFAC, EUROSIM et al. Vienna Conference on Mathematical Modelling MATHMOD 2018	February 21 – 23	Vienna Austria	http://www.mathmod.at/ e-mail: info@mathmod.at
Conference on American Control Conference (in cooperation with IFAC) ACC 2018	June 27 – 29	Milwaukee, WI USA	http://not yet available e-mail: not yet available
18th IFAC/IEEE CSS Symposium on System Identification SYSID 2018	July 09 – 11	Stockholm Sweden	http://not yet available 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	http://not yet available e-mail: not yet available
9th IFAC/IEEE CSS Symposium on Robust Control Design ROCOND 2018	September 03 – 05	Florianópolis Brazil	http://rocond18.ufsc.br/ e-mail: rocond18@gmail.com