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.

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. Khammash, N. Leonard, J. Little, J. Z. Lu, R. Murray, E. Scholz.
- MICON 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 (MICON 2015) held in Saint Petersburg in June 2015. The lecturers were K. Åström, R. Brockett, A. Fradkov, D. Hill, R. E. Kalman, B. Polynak.
- 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. Polynak.
- ACC '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. Kuniash, 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://ieeecss-ol.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. Bit-tanti (June 2011).
  - Historical session at 18th IFAC World Congress (Milano, 2011) chaired by A. Kurzhanski, with contributions by S. Khehne, R. E. Kalman, M. Thoma, T. Vámos, J. Westcott.
  - Historical session I at MICON 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.

Article continued on page 2
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 Bosazici 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 Information 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, 1979-78), 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\textsubscript{\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 Bogazici 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 Dugos University, Istanbul (2007), Richard E. Bellman Control Heritage Award of AACC (2008), 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.
The IFAC officers, President Janan Zaytoon (FR), 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 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.
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 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;
- Evidence of the contribution(s) of the textbook to the education of control engineers; and
- Any additional information that 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.

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.

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.

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 reins 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 Guetton, 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
| Title                                                                 | 2016          | Place                         | Further information          |
|----------------------------------------------------------------------|---------------|-------------------------------|------------------------------|
| IEEE (CSS) and IEEE (SSIT) IFAC Conference on Norbert Wiener in the 21st Century | July 13 – 15  | Melbourne, Australia          | http://21stcenturywiener.org/|
| 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  | http://www.icfda16.com/public/|
| 13th Intern. INSTICC Conference on Informatics in Control, Automation and Robotics (in cooperation with IFAC) ICINCO 2016 | July 29 – 31  | Lisbon, Portugal               | http://www.icinco.org/        |
| 5th IFAC Conference on Sensing, Control and Automation Technologies for Agriculture AGRICONTROL 2016 | August 14 – 17| Seattle, WA, USA               | http://ifac.cahns.wsu.edu/    |
| 20th IFAC Symposium on Automatic Control in Aerospace ACA 2016        | August 21 – 25| Sherbrooke, Québec Canada, USA| http://aca2016.ncycaerospace.com/|
| 10th IFAC Symposium on Non-Linear Control Systems NOLOCS 2016         | August 23 – 25| Monterey, CA, USA              | https://www.math.ucdavis.edu/static/conferences/nolcos_2016/|
| 13th IFAC/FIP/FORS/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/|
| 17th IFAC and others Symposium on Mining, Mineral and Metal Processing MMM 2016 | Aug. – Sept. 31 – 02 | Vienna, Austria              | http://www.ifacmmm2016.org/    |
| 7th IFAC and others Symposium on Mechatronic Systems MECHATRONICS 2016 | September 05 – 08 | Loughborough University United Kingdom | http://www.mechatronics2016.iboro.ac.uk/|
| 6th IFAC Tokyo Institute of Tecn. Workshop on Distributed Estimation and Control in Networked Systems NecSys 2016 | September 08 – 09 | Tokyo, Japan                  | http://www.necsys2016ctrl.titech.ac.jp/|
| 9th EUROSIM IFAC Congress on Modelling and Simulation EUROSIM 2016   | September 12 – 15 | Oulu, Finland                 | http://eurosim2016.automaatioseura.fi/|
| 10th IFAC Conference on Control Applications in Marine Systems CAMS 2016 | September 13 – 16 | Trondheim, Norway             | http://www.ifac-cams2016.com/  |
| 12th APCA IFAC Portuguese Conference on Automatic Control CONTROLO 2016 | September 14 – 16 | Guimarães, Portugal           | http://controlo2016.com       |
| 2nd IFAC Workshop on Thermodynamic Foundations for a Mathematical Systems Theory TFMST 2016 | September 28 – 30 | Vigo, Spain                   | http://tfmst2016.com/         |
| 14th IFAC/IEEE Conference on Programmable Devices and Embedded Systems PDES 2016 | October 05 – 07 | Brno, Czech Republic          | http://pdes-conference.eu/    |
| 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/  |
| IFAC CZ&Slovak 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/  |
| 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/|
| 1st IFAC/FIP Workshop on Control and Computers WOCO 2016              | October 18 – 20 | Valencia, Spain               | http://woco2016.upv.es/        |
| 3rd IFAC/FIP WG 5.7/ESRA Workshop on Advanced Maintenance Engineering, Service and Technology AMEST 2016 | October 19 – 21 | Biarritz, France              | http://ifac-amest16.com/       |
# Calendar of IFAC Events

| Title                                                                 | Place               | Year | Further information                                                                 |
|----------------------------------------------------------------------|---------------------|------|-------------------------------------------------------------------------------------|
| 17th IFAC EUROSIM Conference on Technology, Culture and International Stability | October 26 – 28     | 2016 | Durrës, Albania http://tecis2016.ubt-uni.net/                                        |
| OTM IFAC, IFIP, OMG, IIC, GIC Workshop on Enterprise Integration, Interoperability and Networking EI2N 2016 | October 26 – 27     | 2016 | Rhodes, Greece http://otmconferences.org/index.php/worksshops/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    | 2016 | Newcastle, Australia http://www.aucc2016.org.au e-mail: not yet available |
| 4th IFAC Symposium on Telematics Applications TA 2016                | November 06 – 09    | 2016 | 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 UCC 2016 | November 05 – 07    | 2016 | Porto, Portugal http://www.iccci.org e-mail: acd2016@gandi.fr |
| 13th European et al. IFAC Workshop on Advanced Control and Diagnosis | November 17 – 18    | 2016 | Lille, France http://acd2016.eu/ e-mail: acd2016@gandi.fr |
| 12th IFAC Workshop on Intelligent Manufacturing Systems IMS 2016     | December 05 – 07    | 2016 | Austin, USA http://www.ifacims2016.com e-mail: contact@imscenter.net |
| 1st IFAC IEEE, EECI, NSF Conference on Cyber-Physical & Human-Systems | December 07 – 09    | 2016 | Florianópolis, Brazil http://www.cphs2016.org/ e-mail: not yet available |
| Conference on American Control Conference (in cooperation with IFAC ACC 2016) | May 07 – 09         | 2017 | Seattle, WA, USA http://acc2016.a2c2.org/ e-mail: jingsun@umich.edu |
| 20th IFAC World Congress 2017                                       | July 09 – 14        | 2017 | 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 2016 | December 17 – 20    | 2017 | Gold Coast, Australia https://www.ascc2017.com/ e-mail: i.vlacic@griffith.edu.au |
| Conference on American Control Conference (in cooperation with IFAC ACC 2018) | June 27 – 29        | 2018 | Milwaukee, WI, USA http://not yet available e-mail: not yet available |
| 18th IFAC/IEEE CSS Symposium on System Identification SYSSID 2018    | July 09 – 11        | 2018 | Stockholm, Sweden http://not yet available e-mail: not yet available |
| 10th IFAC/Polytechnic Academy of Sciences Symposium on Fault Detection, Supervision and Safety for Technical Processes SAFEPROCESS 2018 | August 29 – 31      | 2018 | 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   | 2018 | Florianópolis, Brazil http://not yet available e-mail: not yet available |

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**bmo**
Bundesministerium für Verkehr, Innovation und Technologie

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