Newsletter n°3 of the IFAC TC 2.6 on Distributed Parameter Systems

The aim of this technical committee is to foster developments of both theoretical approaches and emerging applications in the field of **Distributed Parameter Systems** (DPS) i.e. infinite dimensional systems described by partial differential equations (PDEs) or delays. The positioning of this Technical Committee is clearly at a control system theory level and aims at addressing various topics such as: modelling, analysis, estimation, simulation, observation, and control, taking all the specificities of the infinite dimension into account.

Feel free to send us your updates, announcements, job-offers etc., and we shall include them in future newsletters.

Awards



Andrea Mationni was awarded the IEEE TC DPS Outstanding Student Paper Prize for his paper entitled "Stabilisation of a Rotating Beam Clamped on a Moving Inertia with Strong Dissipation Feedback" (co-authors Yongxin Wu; Yann Le Gorrec, Hans Zwart) presented at the 2020 CDC.

IEEE TC DPS Outstanding Student Paper Prize is a new established anual award. The selection committee for the 2021 award consists of : Michael Demetriou, Miroslav Krstic, Lassi Paunonen and Thomas Meurer.

TC 2.6 Workshop announcement

 4th IFAC/IEEE-CSS Workshop on Control of Systems Governed by Partial Differential Equations CPDE22, Sept 5-7, Kiel Germany, www.cpde2022.org

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	Invitation It is our great pleasure to invite you to participate in the 4th edition of the IFAC CPDE workshop to take place in Kiel, Germany from September 5-7, 2022.
Hosting Institution / location	Topics
Kiel University, Germany Sponsored by FAC Informational Foderation of Automatic Control, IFAC TC Distibuted Parameter Systems BEE Control Systems BEE Costrol Systems BEE CSS TC on Distributed parameter Systems Co-sponsored by FAC TC Non Linear	These offset part above some and particle fiber of an experimentary interface of the set
Control Systems	Summer school
Organising committee IPC co-Chains Yann Le Gorrec FEMTO-ST, UBPC France Wei He University of Science and	To entarge the community of researchers working in modeling and control of distributed parameter systems, an introductory summer school entitied "An introduction to modeling and control of systems governed by PDEs' is organized before the workshop in the same location from Thursday to Sunday 8-10 September 2022. More information to come at the conference web site.
Technology Beijing, Beijing, China	Copyright Conditions
NOC co-Chairs Thomas Meurer Kei Univently, Gernary Alexander Schaum Kei Univently, Gernary	Copyreline '39 publication material submitter for presentation at an SR-O-presented metry (Corporation, Contract, Watshing) must be original and house cannot be assued publication. From the origination of the second publication of the second publication of the second public of the
Important dates Draft Paper Submission Deadline 15/02/2022 Notification of Acceptance 31/05/2022	Control of the second secon

Organising committee IPC co-Chairs : Yann Le Gorrec FEMTO-ST, UBFC France, Wei He University of Science and Technology Beijing, Beijing, China NOC co-Chairs : Thomas Meurer, Kiel University, Germany, Alexander Schaum, Kiel University, Germany Important dates Draft Paper Submission Deadline 01/02/2022 Notification of Acceptance 31/05/2022

Upcoming events

- 7th IFAC Workshop on Lagrangian and Hamiltonian Methods for Non Linear Control, Berlin, Germany, October 11-13, 2021.
- 60th IEEE Conference on Decision and Control Austin, USA, December, 13-15, 2021.
- TU Vienna/IFAC International Conference on Mathematical Modelling 10th MATHMOD 2022 Vienna, AUSTRIA, 16-18 February 2022.
- American Control Conference (in cooperation with IFAC) ACC 2022, Atlanta, GA, USA 8-10 June 2022.
- IFAC Symposium on Dynamics and Control of Process Systems, including Biosystems 13th DYCOPS 2022™ Busan, REPUBLIC OF KOREA, 14-17 June.
- European Control Conference (in cooperation with IFAC) ECC 2022 London, UNITED KINGDOM, 13-15 July 2022.
- IFAC Workshop on Control of Systems Governed by Partial Differential Equations 4th CPDE 2022™ Kiel, GERMANY, 5-7 Septembre 2022.
- IFAC Symposium on Nonlinear Control Systems 12th NOLCOS 2022™ Canberra, AUSTRALIA, 6-8 Septembre 2022.
- 25th International Symposium on Mathematical Theory of Networks and Systems (MTNS 2022): 12-16 September 2022, Bayreuth, Germany

Ongoing virtual seminars

- The online seminar **Control in Times of Crisis**. This scientific activity is a continuation of the seminar Control en Tiempos de Crisis, this time addressing the international community interested in mathematical problems dealing with control of differential equations, inverse problems and related subjects. The seminar take place on Thursday at 17:00 H Central European Time (UTC+2), in the platform Zoom, and alternates talks of senior and junior researchers. <u>http://cteseminar.mat.utfsm.cl/</u>
- The CCA seminars are organized in the context of the Chair in Applied Analysis Alexander von Humboldt Professorship led by Enrique Zuazua at FAU Erlangen-Nürnberg. <u>https://caa-avh.nat.fau.eu/upcoming-events/</u>

Doctoral/spring schools

- DISC Fall Course 2021 (November 23-25, 2021) on Numerics and Control, http://disc.tudelft.nl/education/winter-course/fallcourse-2021/. Lecturers : Ghislain Haine (Associate professor at the Institut Superieur de l'Aeronautique et de l'Espace (ISAE), France), Denis Matignon (full Professor at the Institut Superieur de l'Aeronautique et de l'Espace (ISAE), France), Paul Kotyczka (Professor at the Technical University of München, Germany)
- Spring School on Theory and Applications of Port-Hamiltonian Systems Frauenchiemsee, 20 25 March 2022. www.mw.tum.de/rt/phs2022
- CIRM Conference 18-22 April 2022, Energy-Based Modeling, Simulation, and Control of Complex Constrained Multiphysical Systems. https://conferences.cirm-math.fr/2560.html

Focus: MTNS 2022

The 25th Mathematical Symposium on Mathematical Theory of Networks and Systems (MTNS 2022) will be held in Bayreuth, Germany, on 12-16 September 2022. MTNS is a prime conference on all mathematical aspects in systems and control theory.

Plenary Speakers: Claudio De Persis (Groningen), Luz de Teresa (Mexico City), Weinan E (Princeton), Maria Elena Valcher (Padova), George Weiss (Tel Aviv).

Semi-Plenary Speakers: Roland Herzog (Heidelberg), Anna-Lena Horlemann-Trautmann (St. Gallen), Boris Houska (Shanghai), Achim Ilchmann (Ilmenau), Dante Kalise (London), Christopher M. Kellett (Canberra), Yann Le Gorrec (Besançon), Na Li (Harvard), Masaaki Nagahara (Kitakyushu), Jacquelien M. A. Scherpen (Groningen), Claudia Schillings (Mannheim), Sanne ter Horst (Potchefstroom).

MTNS welcomes the submission of Papers and Extended Abstracts until 7 February 2022 and Invited Session as well as Mini Course Proposals until 31 January 2022. For more information see https://www.mtns2022.uni-bayreuth.de

New Books



Stabilization of Infinite Dimensional Systems Zerrik, El Hassan, Castillo, Oscar https://www.springer.com/gp/book/9783030685997 2021