

Young Professionals Virtual Control Conference

March 23-26, 2023

General Chair

Rush Patel, *Skyrise, USA*

Program Chair

Karl Ludwig Fetzter, *Siemens Corporation, USA*

Operating Committee

David Copp, *UCI, USA*, Finance & Registration Chair

Stefano Di Cairano, *MERL, USA*, TCEB

Ankush Chakrabarty, *MERL, USA*, Invited & Tutorial Sessions Chair

Marzia Cescon, *UH, USA*, Publicity Chair

Elizabeth Y. Huang, *Systems Technology, Inc., USA*, Web Chair

Abhilash Patel, *IIT Kanpur, India*, Publications Chair

Kaivalya Bakshi, *Southwest Research Institute, USA*, Digital Arrangements Chair

Steering Committee

Anuradha Annaswamy, *MIT, USA*

Alessandro Giua, *Univ. of Cagliari, Italy*

Stefano Di Cairano, *MERL, USA*

Important Dates:

Submission Opens: August 15, 2022

Submission Deadline: Oct 15, 2022

Acceptance/Rejection: Jan 15, 2023

Final Submission Deadline: Feb 15, 2023

Call for Papers

The inaugural Control Systems Society (CSS) Young Professionals Virtual Control Conference (YPVCC) will be held in March 2023. This conference is designed for Young Professionals and will provide a new way for young researchers and practitioners to share scientific and technological advances as well as encourage their participation in the larger IEEE CSS community. Young Professionals (YP) are individuals who have graduated from their first professional degree within the past 15 years.

YPVCC will provide a venue for YP to better engage with the latest developments and best practices in control systems. To this end, this conference is fully virtual, flexibly scheduled so it can be attended with minimal impact on a standard work week, and re-imagined to maximize value for YP early in their careers; towards this end, the conference includes new types of submissions such as extended abstract submission, presentation-only options, and code contributions in addition to contributed and invited papers so as encourage new and varied participation from industry, academia, and research laboratories.

To help elevate YP participation, the conference will (1) require all contributed paper submissions to have a YP as first-author to be considered for submission, (2) prioritize contributed papers from first-authors who have not presented at a previous IEEE CSS conference, and (3) encourage submission of the source code used to generate the results reported in the paper.

The technical program will comprise several types of presentations in regular sessions, tutorial sessions, and special sessions. Four tracks are envisioned, with at least one track based on contributed papers with associated code submissions. Submissions are welcome in all areas of the theory and practice of automatic control in the following categories; contribution methods new to CSS are highlighted in *orange*:

Contributed Papers: Papers presenting new and original research *or tools (as defined by the Open Journal of Control System)* are invited in the form of regular manuscripts (allotted 6 proceedings pages). *Supporting source code examples are also strongly encouraged. Initial paper submissions can be in the form of an extended abstract of at least 1000 words, defining the research problem, background, approach, and summarized plan for the full paper.* All manuscripts should be written in English, be in 2-column format, and meet strict page limits. *If applicable, source code is encouraged to be part of the initial submission and must conform to the code submission policy.*

Presentation-Only Sessions: Technical talks are invited for those YP who cannot publish due to the proprietary nature of their work or other constraints. Abstracts will be included in the conference preprints but not in the proceedings. Submissions must be provided as an abstract of up to 2 pages in 2-column format, defining the problem, background, approach, and current status of work to be presented.

Invited Sessions: Invited sessions consist of 6 papers presenting a unifying theme from a diversity of viewpoints. Proposals must clearly describe the motivation and relevance of the session. Proposals must be accompanied by full versions of each paper, which will be individually reviewed together with the proposal itself. Preference of invited session proposers in participating in regular sessions will be considered when forming the program.

Tutorial Sessions: Tutorial sessions are organized to provide an introduction to a topic of interest. The format is structured around a main tutorial paper (up to 18 pages) and talk (60 minutes) to bring the participants up to speed, followed by three presentations (with papers of up to 8 pages each) to provide specific sub-topics (applications, designs, etc.) of the state of the art. Tutorial sessions involving strong industry and technical committee collaboration are highly encouraged. *Source code examples are highly valued for demonstrating the concepts.*

Special Sessions: Special sessions offer a venue for creating awareness of, and providing exposure to, emerging technology areas, research areas, research and funding opportunities, and other topics of broad interest to attendees. History and industry-sponsored sessions also fall into this category.

Exhibits: Exhibitors are invited to showcase, demonstrate and market control-related publications, software tools, educational products, services, and jobs.

The conference program will only include papers of the highest quality commensurate with CDC, CCTA, and ACC. *Accepted full papers will be published online.* Extended abstracts will not be included in the conference proceedings. All papers and session and workshop proposals must be submitted through the conference submission website, and must conform to the policies found therein.