Call for Contributions

Submission:

1. Inform the Chair: with the Title of your Contribution
2. Submission URL:
https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=ICAS+2020+Special
Please select Track Preference as ACAS

Special track

ACAS: Adaptive Control and Autonomous Systems

Chair and Coordinator
Prof. Dr. Mark J. Balas, Mechanical Engineering Department, Texas A&M University, USA Email: mbalas@tamu.edu
along with

ICAS 2020, The Sixteenth International Conference on Autonomic and Autonomous Systems
https://www.iaria.org/conferences2020/ICAS20.html
September 27 - October 01, 2020 - Rome, Italy

Autonomous systems must function with little or no human supervision or intervention. The active controllers for such systems must be able to adapt to changing scenarios and situations. The foundation of such adaptation is the use of nonlinear direct adaptive control, i.e., controllers that nonlinearly modify their feedback gains to maintain stability in the presence of a changing environment or to track idealized models of acceptable behavior, and suppress persistent disturbances from the environment.

When adaptive control is used in the development of autonomous systems both aerospace and earth-based, it is very effective at maintaining stability and performance even when used as an augmentation of a well-designed fixed gain system. The dynamic interaction of adaptive controllers with multiple vehicle systems and general networked systems can be better understood via nonlinear theoretical methods as the include papers show. Even quantum systems which have an inherently infinite-dimensional nature can be included.

Topics include, but not limited to:
- Autonomous systems
- Active controllers
- Non-linear feedback adaptation
- Maintaining stability and performance
- Stability and environment changes
- Aerospace and earth-based autonomous systems
- Dynamic interaction of adaptive controllers
- Applications

Important Datelines
Submission: August 3, 2020
Notification: August 23, 2020
Registration: September 2, 2020
Camera ready: September 2, 2020
**Contribution Types**
- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.iaria.org]
- Presentations: slide only [slide-deck posted on www.iaria.org]
- Demos: two pages [posted on www.iaria.org]

**Paper Format**
- See: [http://www.iaria.org/format.html](http://www.iaria.org/format.html)
- Before submission, please check and comply with the editorial rules: [http://www.iaria.org/editorialrules.html](http://www.iaria.org/editorialrules.html)

**Publications**
- Extended versions of selected papers will be published in IARIA Journals: [http://www.iariajournals.org](http://www.iariajournals.org)
- Print proceedings will be available via Curran Associates, Inc.: [http://www.proceedings.com/9769.html](http://www.proceedings.com/9769.html)
- Articles will be archived in the free access ThinkMind Digital Library: [http://www.thinkmind.org](http://www.thinkmind.org)

**Paper Submission**
Please select Track Preference as **ACAS**

**Registration**
- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at [http://www.iaria.org/registration.html](http://www.iaria.org/registration.html)

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