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TC2.2– Linear Control Systems (Technical Committee Main Sponsor); TC 1.1 – Modelling, Identification and Signal Processing; TC 2.5 – Robust Control; TC 6.4. Fault Detection, Supervision & Safety of Technical Processes; TC 7.3. Aerospace.

IFAC NMO

Brazilian Society of Automatica (SBA)

Important Dates

- **15/01/2018:** Open track session submission deadline
- **15/01/2018:** Draft paper submission deadline
- **15/04/2018:** Acceptance notification
- **15/05/2018:** Final manuscript submission deadline

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LPVS'18 – First Call for Papers

The Organizing Committee has the pleasure to invite you to participate in 2nd IFAC Workshop on Linear Parameter Varying Systems (LPVS'18) to be held in Florianópolis, Brazil, September 3-5, 2018. This LPVS 2nd edition will be jointly organized with the 9th IFAC Symposium on Robust Control (ROCOND'18). Since these two events have a large intersection of topics and possible attendees, the main goal of the joint organization is to allow the simultaneous attendance and therefore to foster fruitful discussions and interactions. With this aim, the social events will be common and a single registration will give access to the technical activities of both events. Moreover, one registration will allow the submission of different papers to each conference, depending on the scope.

Background and Scope:

LPV systems and control have been an active topic of research in the control systems community. Motivated by this fact, the first IFAC LPVS was organized in Grenoble, France (2015). The Workshop scope will cover the whole area for LPV systems including:

- **Modelling and Identification of LPV systems.** Focusing on how to obtain LPV models for nonlinear systems, switching systems, time-delay systems, sampled-data systems, systems with saturation, uncertain systems, polynomial systems, etc.
- **Analysis of LPV systems:** stability and stabilization, robustness issues, geometric approaches, structural analysis, etc.
- **Observation and Diagnosis of LPV Systems:** observer design, fault detection and isolation, etc.
- **Control of LPV systems:** Hinf control, optimal control, predictive control, constrained control, fault tolerant control, data-driven control, sampled-data control, event and self-triggered control, etc.
- **Applications of LPV modeling and control:** automotive, aerospace, robotics, chemical processes, biological systems, energy and nuclear, network controlled-systems

Venue

Florianópolis is the capital of Santa Catarina state in the South region of Brazil. It can be easily reached by 1h direct flights from Rio and Sao Paulo. The sea, hills and over 42 beaches make Florianópolis a major destination for tourists from Brazil and abroad. The LPVS'18 will be held at the conference center of Majestic Palace Hotel near downtown Florianópolis. Majestic Palace Hotel is a 5-star hotel offering luxury accommodation, stunning views of the North Bay (<http://www.majesticpalace.com.br>)

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