

Call for Papers

Special Issue on Applied LPV Modelling and Identification

The IEEE CSS Technical Committee on System Identification and Adaptive Control is presently seeking papers for a special issue on “Applied LPV Modelling and Identification” for the IEEE Transactions on Control Systems Technology. The special issue aims at the following objectives:

- To present *significant case studies of relevant applications* (including, among others, fields such as aeronautics, space, automotive, robotics, mechatronics, computing systems, manufacturing) which have been successfully solved using methods and tools from the fields of Linear Parameter-Varying (LPV) modelling and identification.
- To promote LPV modelling and identification as an effective approach to deal with some important real world applications.
- To consolidate and solidify the several branches of LPV modelling and identification, highlighting promising application-oriented research directions arising from *the application to real, challenging problems of methods and tools for the derivation of high accuracy control-oriented models both on the basis of prior physical knowledge and input-output data.*

Only papers containing a strong linkage between LPV modelling and identification theory and significant experimental results will be considered for the special issue. Nevertheless, work that is particularly innovative and is demonstrated only through simulation work will also be considered. Authors will have to discuss their findings and demonstrate how they improve the performance of the target application.

All papers will be rigorously reviewed according to the standards of the IEEE Transactions on Control Systems Technology. Prospective authors are advised to refer to the information found on the journal’s web pages on the IEEE CSS web site <http://www.ieeecss.org> prior to submitting a paper. Prospective authors should also state in their cover letter that their manuscript is intended for the special issue on “Applied LPV modelling and identification”. Submitted manuscripts must not have been previously published or be under review for possible publication elsewhere. Papers must be submitted for publication through the on-line Manuscript Central system (at <http://mc.manuscriptcentral.com/tcst>) no later than April 30, 2009.

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