Assignment
This post-doc position subject is about Linear Complementarity Systems (LCS) analysis, which make an important class of hybrid dynamical systems with applications in circuits with piece-wise linear components, optimal control with state inequality constraints, genetic networks, etc.

In particular the design of time-varying stabilizing controllers, both by state and output feedback (keeping in mind that LCS are strongly nonlinear and nonsmooth dynamical systems, for which the separation principle does not automatically apply), will be tackled. Theoretical results will be supported by numerical simulations obtained with the INRIA software package SICONOS: http://siconos.gforge.inria.fr/4.1.0/html/index.html

Applicants should hold a PhD (defended between 1st September 2016 and 31st July 2018) in Systems and Control or Applied Mathematics. Starting date: 1st November 2018, duration: 16 months.

Main activities

Skills

Benefits package
- Subsidised catering service
- Partially-reimbursed public transport
- Social security
- Paid leave
- Flexible working hours
- Sports facilities

Remuneration
Gross salary: 2650 Euros per month.