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#### Important dates

Draft paper submission deadline :  
**January 15, 2013**

Authors notification: **March 1, 2013**

Final Paper: April 1, 2013

Registration Opens: March 2013



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# IFAC Workshop on Thermodynamic Foundations of Mathematical Systems Theory

TFMST'2013 Lyon, France, 14-16 July, 2013

This Workshop will be held in Lyon, France, from Sunday to Tuesday 14-16 July 2013 at Résidence Villemanzy in the center of Lyon.

**Organized by:** LAGEP (Laboratory of Automatic Control and Chemical Engineering), UMR CNRS 5007, Faculty of Science and Technology, University of Lyon 1, Villeurbanne, France

**Sponsored by:** IFAC International Federation of Automatic Control, IFAC TC 2.1 *Control Design*  
**Co-sponsored by:** IFAC TC 2.3 *Non-Linear Control Systems*, TC 2.6 *Distributed Parameters Systems*, TC 6.1. *Chemical Process Control*

#### Scope

During the past 30 years there have been several attempts made to connect thermodynamics with mathematical systems theory through dissipativity theory. The contributions range from industrial applications of passivity theory set in the context of classical thermodynamics to the derivation of system theoretic foundations for reversible and irreversible systems. The objective of this workshop is to bring representative researchers from industry and university together to take stock of where we are, discuss open problems and future directions for research.

This workshop will cover new developments in control theory, design methods and applications where techniques have been effectively tailored to exploit thermodynamics.

#### Workshop Format

Each half day will emphasize a specific theme with an introductory plenary talk, a discussion session supported by posters. A workshop preprints will be prepared. Proceedings will be published in IFAC PapersOnline.

**Registration fees** (including proceedings, lunches and welcome cocktail diner Saturday 13, July)  
Academics: **300 €** Students: **250€**

#### Location

The workshop will be held at the Résidence Villemanzy, a seventeenth century convent that has been transformed into a hotel and conference center. The Résidence Villemanzy is located on a hill which forms belongs to the half-island between the two rivers Rhône and Saône, directly adjacent to the old city of Lyon, with a nice and wide view on river and town as well as on the Alps. Most or all workshop attendants will find lodging in the Résidence Villemanzy, ensuring a pleasant and peaceful atmosphere for the event and a nice base to visit Lyon during the two days (13<sup>th</sup> and 14<sup>th</sup> July) of celebration of the storming of the Bastille. The fourteenth stage of the Tour de France 2013 will arrive at Lyon Saturday 13<sup>th</sup> July.

**Website of the Workshop:** <http://www.lagep.univ-lyon1.fr/TFMST2013/>

