

## Preface

This volume contains the proceedings of the poster workshop at CSD&M 2013.

This workshop was organized to foster discussions about topics presented in papers that were not advanced enough to be published at the main CSD&M conference, but were worth a shorter presentation around a poster.

The program committee of CSD&M selected these papers for presentation at the Poster Workshop and publication in separate proceedings.

### About CSD&M

The purpose of the “Complex Systems Design & Management” (CSD&M) conference is to be a forum for both academic researchers and industrial actors working on complex industrial systems architecture and engineering in order to facilitate their *meeting*. The last three CSD&M 2010, CSD&M 2011 and CSD&M 2012 conferences – which were held in October 2010, December 2011 and December 2012 in Paris – were the first steps in this direction with respectively more than 200, 250 and 280 participants coming from 20 different countries with an almost perfect balance between academia and industry.

### The CSD&M academic–industrial integrated dimension

To make the CSD&M conference this convergence point of the academic and industrial communities in complex industrial systems, we based our organization on a principle of *complete parity* between academics and industrialists. This principle was first implemented as follows:

- the Program Committee is 50% academics and 50% industrialists,
- Invited Speakers are coming in a balanced way from numerous professional environments.

The set of activities of the conference followed the same principle. They indeed consist of a mixture of research seminars and experience sharing, academic articles and industrial presentations, software and training offers presentations, etc. The conference topics cover in the same way the most recent trends in the emerging field of complex systems sciences and practices from an industrial and academic perspective, including the main industrial domains (transport, defense & security, electronics & robotics, energy & environment, health & welfare services, media & communications, e-services), scientific and technical topics (systems fundamentals, systems architecture & engineering, systems metrics & quality, systemic tools) and system types (transportation systems, embedded systems, software & information systems, systems of systems, artificial ecosystems).

### The CSD&M 2013 edition

The CSD&M 2013 edition received 76 submitted papers, out of which the program committee selected 22 regular papers to be published in these proceedings, which corresponds to a 29% acceptance ratio. The program committee also selected papers for a collective presentation and discussion at the poster workshop of the conference, 15 of which are included in these proceedings.

Each submission was assigned to at least two program committee members, who carefully reviewed the papers, in many cases with the help of external referees. These reviews were discussed by the program committee during a physical meeting held in C.E.S.A.M.E.S. office in Paris by June 11, 2013 and via the EasyChair conference management system.

We also chose 17 outstanding speakers with various industrial and scientific expertise to give a series of invited talks covering all the spectrum of the conference, mainly during the two first days of CSD&M 2013, the last day being dedicated to a special “vision session” and the presentations of all accepted papers in parallel with three system-focused tutorials. The first day of the conference is especially organized around a common topic – Systems of systems – that gives a coherence to all the initial invited talks.

October 30, 2013  
Gif-sur-Yvette

Marc Aiguier  
Frédéric Boulanger  
Daniel Krob  
Clotilde Marchal