

Call for Papers for
The 11th International Design Structure Matrix (DSM) Conference
Holistic systems integration – harnessing the power of information
12 – 13 October 2009, Greenville, South Carolina, USA

Extended abstract submission deadline: 1 July 2009
End of registration to attend the conference: 20 September 2009

A key challenge in today's business world is to manage the trade-offs between profitability, time, product contents, and quality in a very competitive, global, and ever-changing society. One strategy to meet this challenge is to employ a holistic systems integration / engineering approach, which is an interdisciplinary, collaborative engineering and management method that derives, evolves, and verifies an integrated optimal solution that satisfies all customer's and manufacturer's needs. Open research questions remain on how to describe the relevant inter-relationships, how to optimize the overall integration, and how to reach the product targets. The ability to capture and visualize information across multiple domains is imperative for developing answers to these pressing questions.

The Design Structure Matrix (DSM) and related methodologies (Domain Mapping Matrices, Multiple Domain Matrices, Graph Theory, others) are useful tools for systems integration because they allow engineers and managers to focus on interdependencies and information flow within and between different domains. Matrix based technologies have, over the years, been proven to be very valuable in designing complex systems, optimizing technical systems and product architectures and organizations, densely networked processes and large market structures.

The International Design Structure Matrix (DSM) Conference is the annual forum for practitioners, academics and researchers, and software developers of DSM-related tools, to exchange experiences, development results, trends, and develop new ideas for complexity management and systems integration in all kinds of industries from different perspectives. This year the conference is hosted by Clemson University in collaboration with the Technische Universität München (TUM, Germany).

Three groups of topics will form the outline of the DSM Conference 2009:

Industrial applications (systems engineering, systems integration, and project management) in:

Automotive, architectural engineering and construction, aerospace, information technology / software, manufactured and consumer goods, plant engineering and others.

Research trends in:

DSM approaches and methodologies, DSM complementary approaches such as Domain Mapping Matrix (DMM) and Multi Domain Matrix (MDM) approaches, Systems Engineering, Systems integration, Project management, organization design, market modelling, applications of graph theory, etc.

DSM software tools:

Prototypes and research projects and commercially available tools.

11th INTERNATIONAL DESIGN STRUCTURE MATRIX (DSM) CONFERENCE
12 – 13 OCTOBER 2009, GREENVILLE, SOUTH CAROLINA, USA

The conference will take place during two days in October 2009 at the new Clemson University International Center for Automotive Research CU-ICAR, in Greenville, SC, USA. This location provides ample possibilities to exchange ideas and concepts about systems integration and complexity management. A social program is offered to further establish new contacts and discuss the presentations.

The outline of the conference:

- Day before the conference (11 October 2009): Get together for old fellows of the DSM community and all newcomers that would like to get to know the DSM community and enjoy good company (at your own expenses).
- Day 1 (12 October 2009): Official opening of the conference. Keynote speakers from industry and academia, presentations of papers, demonstrations of DSM-related software products, conference dinner.
- Day 2 (13 October 2009): Keynote speakers from industry and academia, presentations of papers, demonstrations of DSM-related software products. Closing the formal part of the conference.

To provide all participants with an insightful documentation of the highest standards, all contributions are planned as extended abstracts (three pages) that are subject to a review by an international committee. They are further to be backed up by a presentation consisting of a maximum of 20 slides. Both abstract and presentation will be included in the conference's proceedings.

Organizing committee:

- Professor Georges Fadel, Clemson University, Clemson, SC, USA
- Professor Gregory Mocko, Clemson University, Clemson, SC, USA
- Professor Joshua Summers, Clemson University, Clemson, SC, USA
- Dr. Jonathan Maier, Clemson University, Clemson, SC, USA
- Matthias Kreimeyer, Technische Universität München, Munich, Germany

Scientific committee:

- Professor Georges Fadel, USA
- Professor Gregory Mocko, USA
- Matthias Kreimeyer, Germany
- Professor Joshua Summers, USA
- Professor Udo Lindemann, Germany

Conference fee:

- Please refer to the conference website for the conference fees
- The conference fee includes the following items: conference participation, coffee and beverages, lunches for the two days of the conference, conference dinner, and proceedings.

Important dates

- Extended abstract submission 1 July 2009
- Notification of preliminary acceptance 20 July 2009
- Submission of slides (for publication in proceedings) 1 September 2009
- End of registration 20 September 2009
- 11th DSM Conference, Greenville, SC, USA 12 - 13 October 2009

For registration and to submit a contribution, please go to the conference website:

<http://www.dsm-conference.org>

We are looking forward to meet you in Greenville in October of this year!

If you have any further questions, please do not hesitate to contact the organization team:

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