

June 29

DAY 0 - Sunday

Arrivals

from 19:00

Informal get-together / Dinner

June 30

Day 1 - Monday

07:45 - 09:00

BREAKFAST

09:00 - 09:30

Design Semantics 2014 Opening

09:30 - 10:30

Chair:  
M. Bhatt

**Keynote II**  
*Phenomena as Basis for Assessing, Explaining and Designing for, Novelty*  
**Amaresh Chakrabarti**

Rapporteurs:  
tba

Indian Institute of Science, Bangalore, India

10:30 - 11:00

One-Minute Participant Introductions  
(precompiled)

11:00 - 11:30

COFFEE

11:30 - 13:00

SESSION IA

Design Considered by a Philosopher of Art  
*Monica Procida*

Constructing Space and Spatial Concepts: Affordances vs. Constraints  
*Christian Freksa*

Chairs:

S. Borgo  
D. Camarda

**Discussion I**  
(15 mins)

Rapporteurs:

Semantics-aware Support for Computer Aided Conceptual Design of Mechanical Systems  
*Prasad Onkar*

tba

Ontology Based Factory Design  
*Walter Terkaj*

**Discussion II**  
(15 mins)

13:00 - 15:00

LUNCH

15:00 - 16:00

Chair:  
F. Lisi

**Keynote III**  
*The Role of Abstraction in Design*  
**Lorenza Saitta**

Rapporteurs:  
R1, R2

Università degli Studi del Piemonte Orientale "Amedeo Avogadro", Italy

16:00 - 16:45

SESSION IB

Chair:  
L. Saitta

Machine Learning Methods for Ontology Mining  
*Claudia D'Amato, Nicola Fanizzi and Floriana Esposito*

Dealing with Vague Concepts in Ontologies for Spatial Design: From Deduction to Induction  
*Francesca Alessandra Lisi*

Rapporteurs:

tba

**Discussion III**  
(15 mins)

16:45 - 17:15

COFFEE

17:15 - 18:00

SESSION IC

Chair:  
M. Bhatt

The Concept of Architectural 'type' and Possible Ontological Axiomatisations  
*Dino Borri, Domenico Camarda, Francesca Lisi, Rossella Stufano*

Ontological Representations and Narrative: A Case Study in Cultural Heritage  
*Antonio Lieto*

Rapporteurs:

tba

**Discussion IV**  
(15 mins)

DAY 1 Closure

July 1

Day 2 - Tuesday

07:45 - 09:00

BREAKFAST

09:00 - 09:30

Rapporteur Report 1, and Discussions

09:30 - 10:30

Chair:  
J. Bateman

**Keynote III**  
*Towards an Ontology of Design - What Can We Learn From Design Theories*  
**Pascal Le Masson**

Rapporteurs:  
tba

Centre de Gestion Scientifique, MINES ParisTech (PSL), France

10:30 - 11:00

COFFEE

11:00 - 13:00

SESSION 2A

Design as Multimodal Communication: An Ontological View  
*John Bateman*

Applied Ontology in and for Engineering Design and Manufacturing  
*Stefano Borgo and Emilio Sanfilippo*

Analogy and Cognitive Modelling in Computational Creativity and Computer-Aided Design  
*Tarek Richard Besold*

Chairs:

D. Camarda  
E. Yi-Luen Do

**Discussion V**  
(15 mins)

Rapporteurs:

tba

Visuo-Spatial Design Cognition - I  
*Mehul Bhatt, Carl Schultz*

Visuo-Spatial Design Cognition - II  
*Carl Schultz, Mehul Bhatt,*

Global and Local Landmarks: Analyzing their Role when Rotation occurs in Spatial Navigation  
*Giulia Mastrodonato*

**Discussion VI**  
(15 mins)

13:00 - 15:00

LUNCH

15:00 - 16:00

Chair:  
A. Chakrabarti

**Keynote IV**  
*From Electronic Cocktail Napkin to Computing Happy Healthy Life*  
**Ellen Yi-Luen Do**

Rapporteur:  
R3, R4

Georgia Institute of Technology, USA, and  
National University of Singapore, Singapore

16:00 - 16:45

SESSION 2B

Chair:  
M. Bhatt

Using Game Engines in Architectural Design  
*Inge Hinterwaldner*

Simulating Human Behaviour in Built Environments to support Evaluation in the Architectural Design  
Process  
*Davide Schaumann*

Rapporteurs:

tba

**Discussion VII**  
(15 mins)

16:45 - 17:15

COFFEE

17:15 - 18:00

SESSION 2C

Chair:  
F. Lisi

A Building Knowledge Model for Collaborative Architectural Design  
*Davide Simeone, Stefano Cursi, Gianluigi Laffreda, Antonio Fioravanti and Gianfranco Carrara*

Data Publishing in Construction Industry  
*Pieter Pauwels*

Rapporteurs:

tba

**Discussion VIII**  
(15 mins)

DAY 2 Closure

July 2

Day 3 - Wednesday

07:45 - 09:00

BREAKFAST

09:00 - 09:30

Rapporteur Report 2, and Discussions

09:30 - 10:30

Moderators:  
Mehul Bhatt  
John Bateman

**IAOA SIG Design Semantics**  
*Open Discussions on SIG Actions, Future Events, Community Building etc*

Rapporteurs:  
tba

10:30 - 11:00

COFFEE

11:00 - 12:45

SESSION 3A

Mobile System for Spatial Design Support  
*Janusz Bedkowski*

Manufacturing Space - Ontologies Linking Virtual Environments and Industrial Applications  
*Aleksandra Sojic*

Architectural Creativity and the Role of Memories: An Ontological Approach  
*Giovanni Rabino, Rossella Stufano*

Chair:  
J. Bateman

**Discussion IX**  
(20 mins)

Rapporteurs:

tba

Fluent User Interface for Discovery (FLUID)  
*Enrico Franconi and Kris Krois*

Pre- and Postconditions of Actions used for Layout  
*Andrew Frank (participation tentative)*

**Discussion X**  
(15 mins)

12:45

WORKSHOP CLOSURE, LUNCH