

WORKSHOP TOWARDS SEMANTIC VIRTUAL ENVIRONMENTS PROGRAM



▶▶ Wednesday, March 16th ◀◀



Registration starts at 16.00 in Hotel Victoria

Evening session / 17h15-19h45

17h15 – 18h00 INVITED TALK

Professor Zhigeng Pan
Zhejiang University, P.R.China
Semantic Modeling for Ancient Architecture of Digital Heritage

18h00 – 18h30 break

18h30 – 19h30 / – **Shape Modeling for Virtual Environments**

▶ *Ball B-Spline based Geometric Models in Distributed Virtual Environments*
HockSoon Seah, ZhongKe Wu

▶ *Multi-resolution Normal Approximation of Implicit Surfaces*
Mingyong Pang, Zhigeng Pan, Zhangping Lu, Fuyan Zhang

▶ *Continuity Constraints for Semantically Enhanced Free-form Modeling in Virtual Styling Environments*
Gino Brunetti, Mathias Wagner

▶▶ Thursday, March 17th ◀◀

Morning session / 8h30 – 11h30

8h30 – 9h50 / – **Semantics and Ontology for Virtual Environments**

▶ *Semantic-based Modeling and Representation of Patrimony Buildings*
Livio De Luca, Philippe Véron, Michel Florenzano

▶ *Semantic World Models for Ubiquitous Augmented Reality*
Gerhard Reitmayr, Dieter Schmalstieg

▶ *The Semantics of Multi-user Virtual Environments*
Karsten Otto

▶ *An Ontology of Virtual Humans: incorporating semantics into human shapes*
Mario Gutierrez, Daniel Thalmann, Frédéric Vexo, Laurent Moccozet, Nadia Magnenat-Thalmann, Michela Mortara, Michela Spagnuolo

9h50 – 10h30 coffee break at Hotel Victoria

10h30 – 11h30 / – **Shape description and classification**

▶ *A Polygonal Mesh Partitioning Algorithm based on Protrusion Conquest for perceptual 3D shape description*

Sebastien Valette, Ioannis Kompatsiaris, Michael G. Strintzis

► *Classification of 3D Models using Combined Semantical and Geometrical Information*

Konstantinos Moustakas, Petros Daras, Dimitrios Tzovaras, Michael G. Strintzis

► *3D Object Retrieval Using 3D Packet Wavelet Transform and Knowledge Interpretation*

Apostolos Axenopoulos, Petros Daras, Dimitrios Tzovaras, Michael G. Strintzis

Workshop drink: 17.00-17.45

Evening session / 17h45-19h30

17h45 – 18h30 INVITED TALK

Professor Bianca Falcidieno

C.N.R. - Istituto di Matematica Applicata e Tecnologie Informatiche, Italy

The AIM@Shape network of excellence

18h30 – 19h30 / – Semantics-based Virtual Objects

► *Semantics over Geometry: Garmented Body Model Generation for Real-time Simulation*

Seungwoo Oh, HyungSeok Kim, Pascal Volino, Nadia Magnenat-Thalmann, Kwangyun Wahn

► *Ontologies for Virtual Garments*

Arnulph Fuhrmann, Clemens Gross, Andreas Weber

► *Bridging Geometry and Semantics for Object Manipulation and Grasping*

Tolga Abaci, Michela Mortara, Giuseppe Patane, Michela Spagnuolo, Frederic Vexo, Daniel Thalmann

► ► [Friday, March 18th](#) ◀ ◀

Morning session / 8.30-11.30

8h30 – 9h15 INVITED TALK

Professor Masayuki Nakajima

Tokyo institute of Technology, Japan

Virtual Human for Real/Virtual Worlds Interaction Project in Japan

9h15 – 10h00 / – Semantics over Shapes

► *Action Semantics in Smart Objects*

Tolga Abaci, Jan Ciger, Daniel Thalmann

► *Shape Semantics and Content Management for Industrial Design and Virtual Styling*

Giuliana Ucelli, Gino Brunetti, Raffaele De Amicis, Giuseppe Conti

10h00 – 10h30 coffee break at Hotel Victoria

10h30 – 11h30 / – Shape Acquisition and Reconstruction

► *Surface from Scattered Points: A Brief Survey of Recent Developments*

Oliver Schall, Marie Samozino

► *An ontology-based Approach to Acquisition and Reconstruction*

Laura Papaleo, Riccardo Albertoni, Simone Marini, Francesco Robbiano

► *Clustering for Surface Reconstruction*

Francesco Isgro, Francesca Odone, Waqar Saleem, Oliver Schall

11.30-11.40 Closing session