

AIM@SHAPE in Tallinn 2006  
Summer School  
*Applications of 3D Shapes:*  
*Ontologies, Software Tools and Industrial Case Studies*  
<http://www.aimatshape.net/event/tallinn06-ss>  
July 19-25, 2006  
Tallinn University of Technology  
Building IV, Room 103

**Program**

**Wednesday, July 19, Morning**

- 9:30      Opening, Welcome and Introduction  
            The AIM@SHAPE vision:  
                why ontologies for shapes, why shapes for ontologies?  
            Presenter: Ewald Quak (CENS-CMA & SINTEF)
- 10:15      Coffee break
- 10:30      Training Session:  
            1. Introduction to the Semantic Web  
            2. Introduction to ontologies  
            3. Knowledge base/ontology query languages and demonstration of the  
            AIM@SHAPE Search Engine Prototype  
            Presenters: Marios Pitikakis & George Vasilakis (ITI)
- 12:45      Lunch break

**Wednesday, July 19, Afternoon**

- 14:00      Training Session:  
            Introduction to the Shape Acquisition Ontology  
            Presenter: Laura Papaleo (DISI)
- 15:00      Coffee break
- 15:30      Training Session:  
            1. Introduction to the Product Design Ontology  
            2. Other application examples for ontologies in the design context  
            3. Introduction to the semantic description of Web Services  
            Presenter: Neyir Sevilmis (IGD)
- 19:00      Welcome party

### **Thursday, July 20, Morning**

- 9:30      Invited Lecture: Research for the clothing industry  
Presenter: Nadia Magnenat-Thalmann (UNIGE)
- 10:30      Coffee break
- 10:45      Invited Lecture: Virtual Humans and their interactions  
Presenter: Daniel Thalmann (EPFL)
- 11:45      Invited Lecture: Toward semantic modelling applied to car aesthetics: a proposal  
Presenters: Chiara Catalano (IMATI) & Jean-Claude Léon (INPG)
- 12:45      Lunch break

### **Thursday, July 20, Afternoon**

- 14:00      Training Session: The Virtual Human Ontology,  
Presenters: Frédéric Vexo (EPFL) & Laurent Moccozet (UNIGE)
- 15:00      Coffee break
- 15:30      Training Sessions:  
1. Semantics for metadata description  
2. Geometrical processing for retrieval  
3. Semantics for interaction  
Presenters: Giuliana Ucelli & Giuseppe Conti (IGD-GraphiTech)

### **Friday, July 21, Morning**

- 9:30      Invited Lecture: Geometry processing  
            Presenter: Konrad Polthier (FU Berlin)
- 10:30      Coffee break
- 10:45      Invited Lecture: Surface tiling with discrete differential forms  
            Presenter: Pierre Alliez (INRIA)
- 11:45      Training Session: Use of the AIM@SHAPE Shape Repository  
            Presenter: Waqar Saleem (MPII)
- 12:45      Lunch break

### **Friday, July 21, Afternoon**

- 14:00      Training Session: Use of the AIM@SHAPE Tools Repository  
            Presenters: Pierre Alliez & Laurent Saboret (INRIA)
- 15:00      Coffee break
- 15:30      Training Session:  
            Introduction to some software tools for geometry processing (CGAL)  
            Presenters: Pierre Alliez & Laurent Saboret (INRIA)
- 19:00      Event dinner

**Saturday, July 22, Morning**

- 9:30      Invited Lecture: The needs for geometric modelling in the research of  
                 water waves  
                 Presenter: Tarmo Soomere (CENS)
- 10:30      Coffee Break
- 10:45      Training Session: Communicating science to journalists  
                 Presenters: Iban Yarza Herrero (AlphaGalileo), Tarmo Soomere (CENS)
- 11:45      Lunch break

**Saturday, July 22, Afternoon**

13:00 – 16:00 Guided tour of Tallinn

**Sunday, July 23, all-day**

10:00 – 19:00 Excursion to Lahemaa

### **Monday, July 24, Morning**

- 9:30      Invited Lecture: Modeling non-manifold shapes  
            Presenter: Leila de Floriani (DISI)
- 10:30      Coffee break
- 10:45      Invited Lecture: Subdivision surfaces: what is their future and why?  
            Presenter: Malcolm Sabin (Numerical Geometry Ltd, Cambridge)
- 12:15      Lunch break

### **Monday, July 24, Afternoon**

- 14:00      Invited Lecture: Automatic mesh repair and augmentation for rapid  
            prototyping and simulation  
            Leif Kobbelt (RWTH Aachen)
- 15:00      Coffee break
- 15:30      Invited Lecture: The prospects of FP 7 for IST  
            Presenter: Albert Gauthier (European Commission)
- 19:00      Farewell party

**Tuesday, July 25, PhD Student Workshop**

- 9:30 Geometric constructions for generalized barycentric coordinates  
Presenter: Torsten Langer (MPII)
- 10:00 Blending of natural quadrics with canal surfaces  
Presenter: Margarita Kazakeviciute (Vilnius University)
- 10:30 Coffee break
- 10:45 Multiscale approaches to image segmentation  
Presenter: Sharon Alpert (Weizmann Institute)
- 11:15 3D shape retrieval methods based on spherical harmonics  
Presenter: Panagiotis Papadakis (IIT Athens)
- 11:45 Image-Language association: are we looking at the right features?  
Presenter: Katarina Pastra (ILSP Athens)
- 12:15 Ontology Based Shape Annotation and Retrieval  
Presenter: Olga Symonova (GraphiTech)