

6th International Fall Workshop

# VISION, MODELING, AND VISUALIZATION 2001

November 21 - 23, 2001

Stuttgart, Germany

organized by

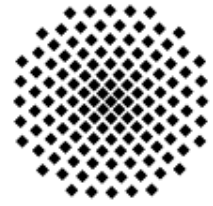
Visualization and Interactive Systems Group  
Institute of Computer Science  
University of Stuttgart

supported by the

Univ. of Erlangen Graduate College (GRK-244)  
*3-D Image Analysis and Synthesis*  
Univ. of Erlangen Graduate Research Center (SFB 603)  
*Model-based Analysis and Visualization of Complex  
Scenes and Sensor Data*  
Univ. of Tübingen/Stuttgart Graduate Research Center  
(SFB382)  
*Computational Physics*  
Max-Planck-Institut für Informatik, Saarbrücken  
Frauenhofer IAO, Stuttgart  
INFOS Informatik-Forum Stuttgart

in cooperation with

IEEE Signal Processing Society  
Gesellschaft für Informatik GI (FG 1.0.4, FG 4.1.2)



Institut  
Arbeitswirtschaft und  
Organisation



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## 1. Important dates / schedule

<i>Well ahead of deadline</i>	Obtain author's kit and LaTeX style file
<i>May 31, 2001</i>	Paper submission
<i>July 15, 2001</i>	Notification of acceptance
<i>August 31, 2001</i>	Registration deadline for authors of accepted papers
<i>November 21 - 23, 2001</i>	Workshop

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## 2. Call for participation

Vision, Modeling and Visualization are complementary disciplines that are rapidly converging. Modeling of scene and object geometry, photometry, and statistical properties are essential in all three areas, and many researchers today believe that we will ultimately have one unified field. The declining cost of processors, memory, and sensors continues to expand the scope of viable applications. New system solutions are in reach by combining state-of-the-art techniques from research areas that were traditionally separate. The thorough scientific treatment of the underlying principles, for example the limitations of sensors, the reliability, accuracy, complexity and storage requirements of image processing and rendering algorithms, similarities and differences between digital image processing and digital geometry processing, or the fidelity of interactive visualization schemes, is the prerequisite for such advanced systems.

This workshop is the sixth in a series of annual meetings organized by the DFG Graduate College "3-D Image Analysis and Synthesis" and the DFG Graduate Research Center SFB 603 "Model-based Analysis and Visualization of Complex Scenes and Sensor Data" at the University of Erlangen-Nuremberg. After three meetings in Erlangen, one in Alpbach, Austria, and the previous one at the Max-Planck-Institut fuer Informatik in Saarbruecken, the 2001 workshop will take place in Stuttgart. It is organized by the VIS-group of the Computer Science Department and will be supported by the DFG Graduate Research Center SFB 382 "Computational Physics", by the Informatik Forum Stuttgart INFOS, and the Fraunhofer Institute for Industrial Engineering IAO, which will host the meeting at its facilities.

The workshop will address the following topics:

- 3-D imaging
- Object localization and recognition
- Volume data processing and visualization
- Multi-sensor fusion and 3-D registration
- 3-D structure from motion and stereo
- Geometry-based and image-based rendering
- Geometric modeling

- Scene modeling and integration
- Multi-view image processing and coding
- Applications (medicine, robotics, fluid mechanics, manufacturing, automated inspection, virtual reality, communication, etc.)

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### 3. Organization

**General Chair:**

Thomas Ertl, Stuttgart

**Technical Program Chairs:**

Bernd Girod, Stanford

Günther Greiner, Erlangen

Heinrich Niemann, Erlangen

Hans-Peter Seidel, Saarbrücken

**Publicity:**

Matthias Hopf

Marcelo Magallon

**Publication:**

Martin Kraus

Dirc Rose

**Local Arrangements:**

Sabine Iserhart-Bauer

Daniel Weiskopf

**Finances:**

Thomas Ertl

Daniel Weiskopf

**Conference Secretary:**

Ulrike Ritzmann

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### 4. Technical program committee

Kiyoharu Aizawa	Japan	Roberto Manduchi	USA
Nicholas Ayache	France	Bärbel Mertsching	Germany
Chris Bregler	USA	Heinrich Müller	Germany
Subhasis Chaudhuri	India	Jörn Ostermann	USA
Rama Chellappa	USA	Nikola Pavesic	Slovenia
Kostas Daniilidis	USA	Frits Post	Netherlands
Bruce Draper	USA	Gerhard Sagerer	Germany
Jan-Olof Eklundh	Sweden	Francis Schmitt	France
Wolfgang Heidrich	Canada	Roberto Scopigno	Italy

Joachim Hornegger Germany  
Chris Johnson USA  
Erwin Keeve USA  
Leif Kobbelt Germany  
Murat Kunt Switzerland

Philipp Slusallek Germany  
Oliver Staadt Switzerland  
Eckehard Steinbach USA  
Thomas Vetter Germany  
Rüdiger Westermann Germany

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## 5. Contact

Questions should be directed to [vmv01@informatik.uni-stuttgart.de](mailto:vmv01@informatik.uni-stuttgart.de).

The General Chair can be reached at:

Prof. Dr. Thomas Ertl  
Institut fuer Informatik der Universitaet Stuttgart  
Abt. Visualisierung und Interaktive Systeme  
Breitwiesenstrasse 20-22  
D-70565 Stuttgart, Germany  
Phone: +49-711-7816-331/332  
Fax: +49-711-7816-340  
EMail: [Thomas.Ertl@informatik.uni-stuttgart.de](mailto:Thomas.Ertl@informatik.uni-stuttgart.de)  
Web: <http://wwwvis.informatik.uni-stuttgart.de/>

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## 6. Workshop venue

The workshop will kindly be hosted by the Fraunhofer IAO.

For directions on how to get there, please visit [read this description](#) and consult the map.

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## 7. Conference Dinner

The conference dinner is included in the registration fee, and will take place on Thursday 22nd in downtown Stuttgart.

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## 8. Accomodation

We will arrange special prices for participants of the VMV2001.

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## 9. Program

The **preliminary program** will be online in early Juli 2001.

The **invited speakers** will be listed as soon as they accept the invitation.

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## 10. About Stuttgart

Coming soon...

### Links:

- [www.stuttgart.de](http://www.stuttgart.de) (*mostly german*)

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## 11. Publication

The workshop proceedings will be printed as

T.Ertl, B. Girod, G.Greiner, H. Niemann, H.-P. Seidel (Eds.)  
Vision, Modeling, and Visualization 2001. *infix* (ISBN number not yet available)

The proceedings are available from

### **infix**

Dr. Ekkehardt Hundt  
Ringstrasse 32  
53757 Sankt Augustin  
Germany  
email:info@infix.com  
www.infix.com

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## 12. Registration

Please download our registration form (coming soon) and return it preferably by FAX.

On site registration is possible on Wednesday Nov. 21st 8:00 - 12:00, but we ask you to register as soon as you know that you will attend the conference (needed for local arrangements).

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### **13. Information for authors**

Prospective attendees are invited to submit a paper up to 8 pages in final form. All submissions will be reviewed. Accepted papers will appear in the workshop digest as submitted.

Authors should obtain the author's kit (including LaTeX style file) from

<http://wwwvis.informatik.uni-stuttgart.de/vmv01/authors.html> (coming soon)

The author's kit provides complete information relative to the submission process. It is the intention of the Committee to conduct all communication with authors electronically.

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### **14. Documents**

The call for Papers is also available in Postscript and PDF.

Author's kit (coming soon)

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The Organization Committee of the 6th Fall Workshop on VISION, MODELING, AND  
VISUALIZATION 2001.