Preliminary Program

Tuesday, 7. September 1999

Opening 8:30 am

The Project "Semantic Modeling and Extraction of Spatial Objects from Images and Maps"
W. Förstner, *University of Bonn*

Knowledge Based Interpretation of Topographic Maps Using GIS Data
H. Koch, *University of Hanover*

On the Use of Geometric and Semantic Models for Component-Based Building Reconstruction
A. Fischer, T. H. Kolbe and F. Lang, *University of Bonn*

Recognition of Buildings Using a Dynamic Bayesian Network
K. Kulschewski and K.-R. Koch, *University of Bonn*

Analysis of Urban Main Network Plans with Ambiguity Reduction by Hierarchically Controled Context
O. Bringmann and S. Fuchs, *Technische Universität Dresden*

Poster Session and Software Demonstrations 2.00 pm
Closing 6.00 pm

General Information

Date:	Tuesday, September 7, 1999	Registration: 8.00 am
Location:	Technische Universität München Acisstr.21 (Main Entrance) Hall 0120 (Posters and Demonstrations: Hall 0790)	
Participation fee:	The participation fee is 80,- DM (US$ 50,-) per person. It includes workshop documentation and coffee break.	
Registration:	Please use the Registration Form of the ISPRS Conference Conference Secretariat ISPRS-Munich 99 Technische Univerität München D-80290 München, Germany Tel.: + 49-89-28922671 Fax: + 49-89-2809573 e-mail: isprs_conf99@photo.verm.tu-muenchen.de	

Poster Session and Software Demonstrations

Triangulation-Based Spatial Clustering Algorithm
K.-H. Anders *University of Stuttgart*

Analysis of Urban Main Network Plans with Ambiguity Reduction by Hierarchically Controled Context
O. Bringmann and S. Fuchs *Technische Universität Dresden*

Knowledge Based Interpretation of Objects in Topographic Maps and Moorlands in Areal Images
J. Bückner, H. Koch and K. Pakzad *University of Hanover*

Conflict-free Visualization of ATKIS Data
D. Burghardt and S. Meier *Technische Universität Dresden*

A Strategy for 3D Building Reconstruction Employing A Component-Based Modeling Approach
A. Fischer *University of Bonn*

Road Extraction in Rural and Suburban Areas
S. Hinz, C. Steger, A. Baumgartner, H. Mayer,
W. Eckstein, H. Ebner and B. Radig *Technische Universität München*

Topological Queries between Vector and Raster Data - Possibilities and Problems
S. Jung *University of Vechta*

Knowledge Based Interpretation of Topographic Maps Using GIS Data
H. Koch *University of Hanover*

Identification of Complex Buildings in Noisy Images Using MDL
T.H. Kolbe *University of Vechta*

Recognition of Buildings Using a Dynamic Bayesian Network
K. Kulschewski and K.-R. Koch *University of Bonn*

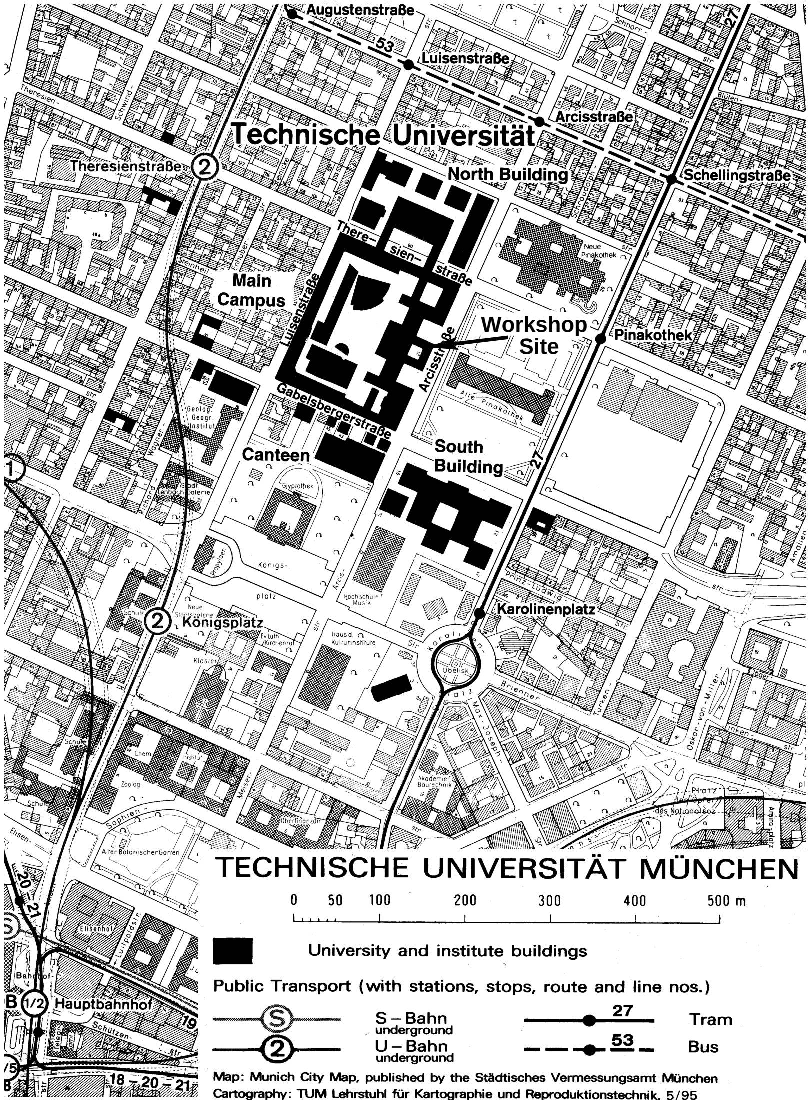
Integrated Analysis of Image and Map Data Based on Disjoint Objects
D. Kunz *University of Karlsruhe*

Multi-Image 3D-Reconstruction for Component-Based Building Extraction
F. Lang *University of Bonn*

Automatic Extraction of Unleaved Deciduous Trees in Urban Areas from High Resolution Aerial Imagery
W. Mayr, H. Mayer and H. Ebner *Technische Universität München*

Knowledge Based Analysis of Reduced Scale Drawings
R. Schindler *University of Aachen*

Cartometric Aspects of Hybrid Analysis within GIS
S.A. Voser *University of Vechta*



SMATI '99

Workshop on

Semantic Modeling for the Acquisition of Topographic Information from Images and Maps

funded by the German Science Foundation DFG

- Final Presentation -

Technische Universität München
September 7, 1999

URL: http://www.ipb.uni-bonn.de/SM/smati99.html

Acquiring spatial data for Geoinformation Systems is still mainly done by human operators who analyze images using classical photogrammetric equipment or digitize maps. Automation of these tasks is difficult due to the complexity of the objects, the topography, and the deficiency of current tools for achieving a reliable transition from the data to the high level description of topographic objects. It appears that progress in automation only can be achieved by incorporating domain specific semantic models.

The workshop is the final presentation of the project *Semantic Modeling and Extraction of Spatial Objects from Images and Maps* funded by the German Science Foundation DFG since 1993.

The workshop will consist of oral and poster presentations as well as software demonstrations.