

Table of Contents

Introduction	1
Georeferenced Internet Communications in a Geoinformation Society <i>J. Strobl</i>	2
Visualization in Landscape Architecture and Planning – Where we have been, where we are now and where we might go from here <i>E. Lange</i>	8
Landscape Architecture in the Reality-Virtuality <i>U. Nothelfer</i>	19
Technical Trends in Geo Information <i>J. Wiesel</i>	24
 GIS Applications in Environmental Planning	29
Dynamic Visualization of Urban Sprawl Scenarios <i>B. Streich</i>	30
Expanding the Boundaries of GIS – Making the Transition to Small Urban Scale Projects <i>J. Nicholson</i>	36
Linking GIS and “Mobile GIS” in Precision Agriculture <i>B. Dohmen and A. Reh</i>	42
Using GIS for Visualization of the Changing Landscape of the Brown Coal Mi- ning Areas at the International Building Exhibition (IBA) Fuerst Pueckler Land <i>E. Buhmann</i>	48
 Visualization in Landscape Planning.....	57
Computer Visualization of Environmental Impacts <i>E. Kretzler</i>	58
The Use of VRML in Landscape Visualisation <i>A. Lovett, G. Sünnenberg, K. Appleton, T. Dockerty, P. Dolman, D. Cobb and T. O’Riordan</i>	68

Interactive Visualisation for the Internet in Landscape Planning with VRML <i>T. Schauppenlehner</i>	86
Actors in the Landscape of Communication – Experience and Categories of Space in Web-Based Visualization of Landscapes for Landscape Planning Communication <i>T.D. Johansson</i>	96
Virtualization in Landscape Design	109
Drag and Drop – The Compatibility of Existing Landscape Theories and New Virtual Landscapes <i>J. Rekittke</i>	110
Project Process 21 – Virtuality <i>E.H. Flaherty</i>	124
Silicon Luddite: A Studio Case Study for Utilizing Digital Media Beyond Landscape Representation Techniques <i>S.-A. Ware</i>	140
Technical Trends in Geo Information	153
3D-Visualization-Systems for Landscape Planning – Concepts and Integration into the Workflow of Planning Practice <i>K. Egger, B. Geier and A. Muhar</i>	154
Game Engines: Tools for Landscape Visualization and Planning? <i>A. Herwig and P. Paar</i>	162
The Integration of Surveying and GIS – The Basis of Sustainable Management of Spatially Related Information <i>E. Jericke, Leica-Geosystems</i>	172
Internet GIS Developments for Creating, Managing, Distributing and Reusing of Infrastructure Data <i>M. Schönstein, Autodesk</i>	182
G.Net - A New GIS Architecture for Distributed Geographic Information Services <i>C. Brown, ESRI</i>	187
Addresses of Authors	191