
Table of Contents

Introduction	VII
Editorial.....	VIII
Responsive Landscapes	1
<i>Adrienne Grêt-Regamey (Keynote at DLA 2017)</i>	
Six Key Conditions for Successfully Implementing a Responsive Landscape Planning Approach	2
<i>Zihao Zhang</i>	
Human Factors in Responsive Landscapes: Importance and Method.....	10
<i>Tadej Bevk, Nieves Mestre Martinez, Patrick Brereton, Marija Lalošević, Milica Perič</i>	
Iterative Digital Photo-based Assessment for Rural Landscape Perception: A Small Experiment from County Wicklow, Ireland	18
<i>Serhat Cengiz, Sevgi Görmüş, Şermin Tagil</i>	
Modelling the Interaction Between Urban Sprawl and Agricultural Landscape Around Denizli City, Turkey	28
<i>Thomas Roberts, Sareh Moosavi</i>	
Leveraging the Dredge Cycle at the Gippsland Lakes: Simulating with Autodesk CFD	42
<i>Artan Hysa, Fatma Ayçım Türer Başkaya</i>	
Landscape Fragmentation Assessment Utilizing the Matrix Green Toolbox and CORINE Land Cover Data.....	54
<i>Ping Xu</i>	
Fires and Postfire Debris/Mudflows Triggered by Landforms in the Colorado Front Range and the Subsequent Impact on and by Humans	63
Geodesign and Smart Cities.....	75
<i>Kirsten S. Kurland (Keynote at DLA 2017)</i>	
3D and Spatial Analysis for Smart and Healthy Cities	76
<i>Guoping Huang</i>	
Protecting Urban River Views with Geodesign Approach	85
<i>Lars Schütz, Susanne Raabe, Korinna Bade, Matthias Pietsch</i>	
Using Visual Analytics for Decision Making	94

<i>Joerg Schaller, Johannes Gnaedinger, Leon Reith, Sebastian Freller, Cristina Mattos</i>	
GeoDesign: Concept for Integration of BIM and GIS in Landscape Planning	102
<i>Eleanna Panagoulia</i>	
Open Data and Human-Based Outsourcing Neighbourhood Rating: A Case Study of the San Francisco Bay Area Gentrification Rate	113
<i>Olaf Schroth, Puyu Wang, Hrishikesh Ballal</i>	
Geodesigning Climate Change Adaptation on a Regional Level through Shelterbelt Provision in the Jinginji Area	125
<i>Stefan Küspert, Roland Zink</i>	
Concept of a Digital Communication Platform to Increase the Citizens' Interest in Spatial Planning	136
<i>Yalcin Yildirim</i>	
Measuring Sounds with a Grid Method for Supporting the Design of Public Spaces	144
<i>Saviour Formosa</i>	
The SIntegraM Stairway to Integrative Spatialisation: Removing the Barriers to Access and Harmonisation	152
Algorithmic Landscapes.....	161
<i>Yuan Yangyang, Cheng Yuning</i>	
Road Planning for a Scenic Environment Based on the Dijkstra Algorithm: Case Study of Nanjing Niushou Mountain Scenic Spot in China.....	162
<i>Mona Ghandi</i>	
Landscape as a Networked Ecological System: The Role of Data and Emerging Technologies in Rethinking Site Remediation.....	174
<i>Agnieszka Ozimek, Pawel Ozimek</i>	
Viewshed Analyses as Support for Objective Landscape Assessment	190
<i>Philip Paar, Timm Dapper, Jan Walter Schliep</i>	
Development of an Interactive 3D Herbaceous Bed Designer	198
<i>Reto Spielhofer, Sara Irina Fabrikant, Matthias Vollmer, Johannes Rebsamen, Adrienne Grêt-Regamey, Ulrike Wissen Hayek</i>	
3D Point Clouds for Representing Landscape Change	206
<i>Siqing Simon Chen</i>	
Designing with Phenology: Tree Canopy Dynamics and Its Effects on Solar Exposure for a Residential Building	214
<i>Caroline Westort, Zhongzhe Shen</i>	
Robot in the Garden: Preliminary Experiments Programming an On-site Robot Ball Assistant to the Landscape Architect	223

Augmented and Virtual Reality in Landscape Architecture	235
<i>James Palmer, Vincent Vanderheyden, Gisele Alves, Georgia Sismani</i>	
Best Focal Length to Represent a Landscape View Using a Single-Frame Photograph.....	236
<i>Toomaj Goudarznia, Matthias Pietsch, René Krug</i>	
Testing the Effectiveness of Augmented Reality in the Public Participation Process: A Case Study in the City of Bernburg	244
<i>Benjamin H. George, Ole R. Sleipness, Andrew Quebbeman</i>	
Using Virtual Reality as a Design Input: Impacts on Collaboration in a University Design Studio Setting	252
 Teaching Digital Landscape Architecture and Environmental Planning.....	 261
<i>James Melsom, Luis Fraguada, Ilmar Hurkxkens</i>	
Onsite Analysis: Developing a Flexible Software Field-kit for Landscape Architecture and Spatial Design	262
<i>Michele Campagna</i>	
Geodesign A-to-Z: Evolution of a Syllabus for Architects and Engineers	271
<i>Mintai Kim</i>	
Teaching Coastal Resilience Using Geodesign: A Study of Virginia Beach.....	279
 Acknowledgements	 287
 Early Conference Announcement & Call for Papers for the Inter- national Conference “Digital Landscape Architecture DLA 2018”.....	
	291