

Table of contents – Inhaltsverzeichnis:

PREFACE	5
Manfred Schrenk	
(Un)Plugging Smart Cities with Urban Transformations	15
Igor Calzada	
A Pilot Experiment on Affective Multiple Biosensory Mapping for Possible Application to Visual Resource Analysis and Smart Urban Landscape Design	29
Zheng Chen, Sebastian Schulz, Xiaofan He, Yifan Chen	
A Spatial Microsimulation Model for the Estimation of Heat Demand in Hamburg	39
M. Esteban Muñoz H.	
A Study on the Lifestyles and Daily Activities of Informal Settlers in Inner Kabul City	47
Sofia Sahab, Toshiyuki Kaneda	
A Suite of Novel EO-Based Products in Support of Urban Green Planning	57
Mattia Marconcini, Annkatrin Metz	
Air-Based Mobile Urban Sensing – Copters as Sensor Carriers in Smart Cities	67
Benjamin Allbach, Patrick Leiner	
Altern im urbanen Umfeld dargestellt an ausgewählten Beispielgebieten von Graz	79
Josef Gspurning, Julia Kügele	
An Approach to Adapt the Paradigm of Integral Planning to Urban Development	99
Karsten Rexroth, Petra von Both	
Behaviour Analysis of Interdependent Critical Infrastructure Components upon Failure	107
Pradeep Burla, Christine Lindner, Dirk Vallée	
Belgrade: Smart Solutions for the Climate Change Challenges?	117
Aleksandra Stupar, Aleksandra Djukic, Jelena Maric	
Brownfields Information Brocker	125
Karel Charvat, Sarmite Barvika, Tomas Mildorf	
Can the Integration of Environmental Dimension Make Smart a Metropolitan Context? An Argument about Planning in the Recently Established Metropolitan City of Cagliari and Natura 2000 Network	137
Ignazio Cannas, Daniela Ruggeri	
City Lab Lisbon – Development of a Smart Roadmap for the City of the Future	151
Marielisa Padilla, Tom Hawxwell, Willi Wendt	
Communal Companies Merging as Smart Approach: Kikinda Town in Serbia Case Study	161
Danilo S. Furundžić, Dijana Jakšić-Kiurski, Ivana Petrović	
Comparing Automated Methods for Identifying Areas of Critical Heat Demand in Urban Space	171
Hannes Seller	
Computing Residential Heat Demand in Urban Space using QGIS. A Case Study for Shumen, Bulgaria	179
Ivan Dochev	
Creative Capital for Smart Solutions: Toward a Liveable City	189
Sanja Simeunčević Radulović, Aleksandra Stupar	
Crowd Delivery als neues Lieferkonzept zur Stärkung des „Lokalen Marktplatzes“	197
Linda Dörrzapf, Martin Berger, Gert Breiffuss, Elias Remele	
Das Konzept der quattromodalen Knoten	207
Georg Hauger, Monika Wanjek, Claudia Berkowitsch, Sarah Pfoser, Oliver Schauer, Lisa-Maria Putz, Reinhold Schodl, Sandra Eitler, Matthias Prandtstetter, Karin Markvica	
Defining Smart Cities: a Relative and Dynamic Approach	213
Luigi Mundula, Sabrina Auci, Donatella Vignani	
Die smarte Vision auf den Boden bringen	223
Ernst Rainer, Martin Grabner, Oliver Konrad	
EmoCyclingConcept – Smart and Safe Mobility – Workshop	237
Dennis J. Groß, Peter Zeile	
Enriching the 3D City Model for the Simulation of Urban Heat Demand	243
M. Esteban Muñoz H., Ivan Dochev, Hannes Seller, Irene Peters	
Environment and Social Audit for Smart City Planning Perspective in India	249
Bikram Kumar Dutta, Sanhita Bandyopadhyay	

Experiences from a Living Lab Trialling a Mobile Participation Platform	263
Sarah-Kristin Thiel, Peter Fröhlich, Andreas Sackl	
Fernerkundungsgestützte Wärmeverlustdetektion von Dachflächen als Beitrag zur Energieeffizienzsteigerung von Stadträumen – Ergebnisse einer Fallstudie in Graz/Österreich	273
Wolfgang Sulzer, Katharina Kern, Christian Bauer, Reinhold Lazar, Martin Mudri, Winfried Ganster	
Floating Architecture and Structures – an Answer to the Global Changes.....	287
Horst Stopp, Peter Strangfeld, Anna Malakhova	
Fühl die Stadt – Methoden zur Erfassung subjektiver Wahrnehmung	295
Linda Dörrzapf, Martin Berger, Fabian Dorner, Hartmut Dumke, Lisa Reinhart, Gloria Watzinger, Stefan Leichtfried	
GIS Application for Improving Housing Conditions in Substandard Roma Settlements in Serbia	305
Ljiljana Živković	
Hiking Trip Selection Based On Reachability By Public Transport	317
Stefan Wagner, Gerhard Navratil, Hans Fiby	
How to stay a Smart City? Inspiration from a Place-Based Spatial Policy in Ghent – Working Together with Local, Smart Citizens	333
Ann Pisman, Peter Vervoort	
Human’s Digital Space in a Digital City	343
Vasily Popovich, Leonid Borodkin, Manfred Schrenk	
Identifikation geschlechterspezifischer Mobilitätsbarrieren anhand einer drittvariablen-gestützten Mobilitätsverhaltensanalyse	349
Christine Lindner, Daniel Horn, Conny Louen	
Informationstechnologie unter Erreichbarkeit – intelligentes Transportsystem: eine Studie für den Stadtverkehr in Istanbul.....	369
Bilge Ulusay Alpay	
Innovative Approaches to Urban Data Management using Emerging Technologies.....	375
Jens Dambruch, Andreas Stein, Veneta Ivanova	
Integrative Secondary Education Programmes and Research in Smart Cities Context.....	385
Momir Tabakovic, Darya Bululukova, Harald Wahl	
Intelligent Development Research on Job-Housing Space in Chinese Metropolitan Area under the Background of Rapid Urbanization	391
Sicheng Wang, Yingxia Yun, Zhong Sun	
Interaction with Interconnected Data in Participatory Processes	401
Lars Schütz, Dirk Helbig, Korinna Bade, Matthias Pietsch, Andreas Nürnberger, Andreas Richter	
Korneuburg 2036 – eine Stadt plant sich selbst. Die Frage nach Langfristigkeit und Verlässlichkeit in der kooperativen Stadtentwicklung	411
Elisabeth Schauppenlehner-Kloyber, Johannes Huemer	
Local Agenda 21 Plus Josefstadt: Smart Projects to Share Space, Talents, Knowledge, Objects and much more	423
Petra Hirschler, Sibylla Zech	
Low Tech Solution for Smart Cities – Optimization Tool CityCalc for Solar Urban Design.....	431
Roman Smutny, Doris Österreicher, Stefan Sattler, Martin Treberspurg, Kurt Battisti, Markus Gratzl, Ernst Rainer, Heimo Staller	
Mapping Conflicts in the Development of Smart Cities: the Experience of Using Q Methodology for Smart Gusu Project, Suzhou, China	437
Joon Sik Kim	
Mischung: Possible! Impulses for Mixed Use and Flexible Capacities in Contemporary Densely Built Urban Areas	447
Silvia Forlati, Christian Peer	
Mit Potenzialanalysen die richtigen Verwaltungsdienstleistungen digitalisieren.....	455
Fais Al-Anbari, Sven Hauenstein	
Model-based Planning for a Sustainable Urban Development	463
Sebastian Ebertshäuser, Petra von Both	
Modelling Microclimates in the Smart City: a Campus Case Study on Natural Ventilation	473
Olaf Schroth, Quan Ju	
Modernisierung im sozialen Wohnbau – wie dabei Smart Mobility unterstützt wird.....	481
Eva Favry	
Open-Innovation- und Living-Lab-Ansätze in der Praxis der Stadtentwicklung – Herausforderungen, Dilemmas und Chancen	491
Barbara Hammerl, Remko Berkhout, Elisabeth Oswald	
Participative Foresight for Smarter Cities: From Vision Seeds to the Development of Scenarios	501
Vicente Carabias-Hütter, Tobias Kuehn, Alexander Sokolov, Harry Spiess	

Planning of Smart Government of Belgrade	509
Eva Vaništa Lazarević, Marija Cvetković, Uroš Stojadinović	
Portable Streets: Smart Urban Solution	515
Rania El Messeidy	
Putting Life to Smart City Project Portfolios (The Role of Innovation in Smart Cities)	521
Stefan Fazekas	
Rationale of Smart High-rise Regulations	531
Hao Zhang	
Raumerfassung und Raumwahrnehmung – aktuelle Techniken und potenzielle Einsatzgebiete in der Raumplanung	541
Steffen Folz, Daniel Broschart, Peter Zeile	
Semantic Medical Care in Smart Cities	551
Alexander Vodyaho, Nataly Zhukova, Maxim Lapaev, Andrey Koltavskiy	
Semantic Platform for Building Coherent Net of Smart Services	561
Alexander Vodyaho, Nataly Zhukova, Maxim Kolchin, Maxim Lapaev	
“Sidewalk” as a Realm of Users’ Interactions: Simulating Pedestrians’ Densities at a Commercial Street in Cairo City	569
Hussam E. M. Magdy, Masahiro Shohmitsu, Toshiyuki Kaneda	
Smart Cities or Smart About Cities	579
Judith Ryser	
Smart Cities: a Policy Tool for City Efficiency?	589
Luigi Mundula, Sabrina Auci	
Smart City – Smart Design? Die Auswirkung digitaler Medien auf die Stadtgestalt	599
Philipp Strohm	
Smart Data for Smart Government – a Show Case from Abu Dhabi Distribution Company	609
Rim Meziani	
Smart Energy Supply Conception for the Urban Development Area of Aspern Seestadt (Vienna)	615
Ursula Mollay, Barbara Saringer-Bory, Christof Schremmer, Sebastian Möller	
Smart Governance, the Backbone of Smart Planning. A new Strategic Plan for the Cluj-Napoca Metropolitan Area	625
Pietro Elisei, Sabina-Maria Dimitriu, Radu-Matei Cochechi	
Smart Government in Wien	633
Gerhard Hartmann	
Smart Planning: Different Participation Methods for Evaluating Spatial Attractiveness	643
Christian Mueller, Ulrike Klein, Angela Hof	
Smart Sustainable E-Solutions for Implementation and Enforcement of Smart Cities in India	653
Sandeep Kumar Raut, Papiya Bandyopadhyay Raut	
Smart Urban Simulation Tools for Planning Decision Support Need Smart Data and Smart Data Gathering Methods	659
Ernst Gebetsroither-Geringer, Wolfgang Loibl, Mario Köstl, Jan Peters-Anders	
Stadtentwicklung im Untergrund. Skizzen aus der Schweiz	667
Alexander Ruch	
Stand der Weiterentwicklung und Umsetzung des Standards XPlanung in Deutschland	679
Kai-Uwe Krause, Robert Krätschmer, Joachim Benner	
Stresstest städtischer Infrastrukturen – ein Experiment zur Wahrnehmung des Alters im öffentlichen Raum	689
Sven Beyel, Johann Wilhelm, Christian Mueller, Peter Zeile, Ulrike Klein	
Success Factors of Participatory Processes in Urban Development	699
Marianne Steiner	
Technology-supported Citizens Participation in Taiwan	709
Ken-Ping Shen	
The Concept of Situation Centers for Smart Cities	719
Oksana Smirnova, Tatiana Popovich	
The Influences of User Generated "Big Data" on Urban Development	727
Mai Mahmoud, Dina Taha	
The Pivotal Role of Public Transport in Designing the Integration of Mobility Services and in Operating MaaS Offer: the Concept of Shared Mobility Centre and the Experience of Arezzo	737
Giorgio Ambrosino, John D Nelson, Saverio Gini	
Track me if you plan – Aufzeichnung urbaner Aktivitätsmuster mittels Smartphonetracking	749
Lisa Provo, Steffen Folz, Kerstin Kopal, Peter Zeile	

Unobtrusive, Seductive and Profound? The Silent Transformation of Mobility in the Region of Stuttgart.....	759
Manuel Heckel	
URBIS Decision Support for Integrated Urban Governance.....	769
David Ludlow, Katerina Jupova	
Virtual 3D City Model Support for Energy Demand Simulations on City Level – The CityGML Energy Extension.....	777
Joachim Benner, Andreas Geiger, Karl-Heinz Häfele	
Web Data Extraction Systems versus Research Collaboration in Sustainable Planning for Housing: Smart Governance Takes It All.....	787
Valerie Dewaelheyns, Isabelle Loris, Thérèse Steenberghen	
Why Geospatial Linked Open Data for Smart Mobility?	803
Anuja Dangol; Valerie Dewaelheyns, Thérèse Steenberghen	
Zusammenhänge zwischen der Basisinnovation der Informations- und Kommunikationstechnologien und der räumlich-funktionalen Entwicklung der europäischen Stadt	821
Juliane Ribbeck	
A Critical Deconstruction of the Concept of Transit Oriented Development (TOD).....	829
Dorina Pojani, Dominic Stead	
Auf dem Weg zur digitalen Stadt – Aufbau der digitalen Planungsinfrastruktur Hamburg.....	835
Birgit Augstein, Frank Raser	
City Information Modelling – Potenziale für eine intelligente Stadtplanung	843
Mara Müller, Daniel Broschart, Peter Zeile	
Deconstructing Economic, Ecologic and Social Urban Discourses for Innovation Policies.....	851
David Hamers	
Envisioning Sustainable Lifestyles in Stockholm’s Urban Development	857
Moa Tunström, Lukas Smas, Liisa Perjo	
EO-based Smart City Decision Support Services for Integrated Urban Governance: the DECUMANUS Project.....	863
David Ludlow, Maria Lemper, Mattia Marconcini, Philippe Malcorps, Annekatrin Metz	
ERP hoch 3: Energieraumplanung entlang von ÖV-Achsen	869
Ernst Rainer, Michael Malderle, Michael Eder, Stephan Maier, Hartmut Dumke, Petra Hirschler, Pia Kronberger-Nabielek, Kurt Weninger, Johannes Fischbäck, Sibylla Zech, Rudolf Scheuven, Michael Narodoslawsky, Hans Schnitzer, Johann Zancanella	
Experimenting New Forms of Urban Governance in Vienna	875
Joanne Tordy, Max Kintisch, Christof Schremmer	
How to become a Sustainable Smart City: the case of Al Quassim Eco-Neighborhood, Saudi Arabia	881
Al Jawhara Al Muhanna, Aida Nayer	
Initiating a Smart Transportation System: Jeddah City.....	891
Manal Al Deweik, Aida Nayer	
Interactive Visualisation of Statistical Data with the CentropesSTATISTICS Cross-Border Geoportall.....	899
Clemens Beyer, Manfred Schrenk	
Monitoring von Smart-City-Strategien – Wiens Smart-City-Monitoring-Prozess.....	903
Clemens Rainer, Eva Pangerl, Pia Hlava, Ina Homeier	
Öffentliche Verkehrsmanagement-Strategien und private Mobilitätsservices: Lösunginseln in Konkurrenz oder Synergien durch Kollaboration?	909
Stefan Kollarits, Ulrike Brocza	
Positioning Urban Labs – a New Form of Smart Governance?.....	919
Lukas Smas, Peter Schmitt, Liisa Perjo, Moa Tunström	
Prioritization of Urban Green Infrastructures for Sustainable Urban Planning in Ploiesti, Romania	925
Athanasios Alexandru Gavrilidis, Mihai Răzvan Niță, Diana Andreea Onose, Irina Iulia Năstase, Lavinia Denisa Badiu	
Seniorengerechte Kommunikation von Geoinformationen in Nationalparks am Beispiel senTOUR	931
Wolfgang W. Wasserburger, Clemens Beyer, Sabine Hennig, Maria Wasserburger	
Smart Cities and Standards – the Approach of the Horizon 2020 Project ESPRESSO	937
Jan-Philipp Exner, Pietro Elisei	
Smart City for Smart People	945
Elisabeth Kerschbaum, Thomas Zelger, Hildegund Moetzl	
Smart, Green and Inclusive Urban Growth: Visualising Recent Developments in European Cities	953
Kersten Nabielek, David Hamers, David Evers	
Smart-City-Leitfaden für die Seestadt Aspern Wien.....	959
Clemens Rainer, Ina Homeier	

Three Cities – Lyon, Munich, Vienna – will be SMARTER TOGETHER	965
Bruno Gaiddon, Julia Girardi, Hans-Martin Neumann, Korinna Thielen, Etienne Vignali, Willi Wendt	
Three Decades of Transport Infrastructure Development and Travel Behaviour Change in the Netherlands	977
Dena Kasraian, Kees Maat, Bert van Wee	
Towards Jeddah Smart City: Assessing People Perception Of Spacious Quality Indicators In Open Spaces	983
Aida Nayer, Dina Taha	
Understanding Cities and Citizens: Developing Novel Participatory Development Methods and Public Service Concepts....	991
Marek Vogt, Peter Fröhlich	
URBAN LEARNING – Joint Learning towards Integrative Energy Planning in European Cities	997
Herbert Hemis, Marko Matosović	
Urban Planning through Exhibition and Experimentation in Stockholm.....	1003
Peter Schmitt, Lukas Smas, Liisa Perjo, Moa Tunström	
Visibility as a Stake for Cities.....	1009
Olivier Lefebvre	
A Shift from 2D Design Paradigm of the 19th Century to 3D/CityGML, BIM, 3D Printing and Some of Smarter Cities in Poland.....	1015
Robert Lach, Krzysztof Nawrocki, Boguslaw Zbyszewski, Stasislaw Lessaer, Jan Lessaer, Leszek Sobieraj, Artur Jach	
Mobility Patterns and Lifestyles in Vienna – Case Study Liesing.....	1029
Giannis Kaucic, Stephanie Kirchmayr-Novak, Wolfgang Neugebauer, Joanne Tordy, Christof Schremmer	