

**Table of Contents – Inhaltsverzeichnis**

<b>Preface</b> .....	<b>5</b>
Manfred Schrenk	
<b>The Spatial Agenda Karlsruhe</b> .....	<b>15</b>
Keynote by Anke Karmann-Woessner	
<b>50.000 – Raumbilder für Mittelstädte aus Open-Data-basierten Analyse- und Entwurfsexperimenten</b> .....	<b>25</b>
Martin Berchtold	
<b>A Conceptual Framework for the Utilisation of ICT in Participatory Planning</b> .....	<b>35</b>
Seyed Taher Khalilnezhad	
<b>A Geo-Spatial Information Model for Rurban Planning</b> .....	<b>45</b>
Arpita Banerjee, Mahavir Prasad, Kusum Lata	
<b>A Smart Home Network for Proactive Users</b> .....	<b>55</b>
Martina Botticelli, Francesca Dionisi, Andrea Monteriù, Sabrina Romano	
<b>Abstract Smart Space and Concrete Risks</b> .....	<b>63</b>
Sadeeb Simon Ottenburger, Ulrich Ufer	
<b>Activated Brownfield in Baghdad: Contaminated Site as a Model</b> .....	<b>69</b>
Mays Hamdan, Shaimaa Hameed	
<b>Application of the Online WhatIf? Planning Support System in Peri-urban Spatial Planning; Case study of Muzaffargarh, Pakistan</b> .....	<b>77</b>
Muhammad Qadeer ul Hussain, Abdul Waheed, Ghulam Abbas Anjum, Malik Asghar Naeem, Khydija Wakil, Ali Tahir, Christopher Pettit, Ejaz Hussain	
<b>Archiv und Wirklichkeiten – Wissensproduktion zwischen Objektivität und Kontextualität</b> .....	<b>89</b>
Manuela Gantner	
<b>Assessment of Metropolitan Urban Forms and City Geo-spatial Configurations using Green Infrastructure Framework: The Case Study of Lagos Island, Lagos State, Nigeria</b> .....	<b>99</b>
Adesina John A., Timothy Michael A., Akintaro Emmanuel A.	
<b>Automatisiert Bewegen durch Stadt und Land – gesellschaftliche Implikationen der Implementierung von ITS-Technologien in das Verkehrsgeschehen des zukünftigen Mobilitätssystems</b> .....	<b>111</b>
Heinz Dörr, Viktoria Marsch, Andreas Romstorfer	
<b>Bau auf! Kreislaufgerechte Architektur in der Lehre</b> .....	<b>123</b>
Sandra Böhm, Dirk E. Hebel	
<b>Branding so Good: from Jeppestown to Maboneng Precinct</b> .....	<b>135</b>
Bonolo Helen Letlape, Trynos Gumbo	
<b>Bright Cities and City Information Modeling</b> .....	<b>143</b>
Sabrina Auci, Luigi Mundula, Emanuela Quaquero	
<b>Church Buildings as a Driver in the Real Estate Development of Cities</b> .....	<b>153</b>
Stefan Netsch	
<b>City OF Things or City FOR People?</b> .....	<b>161</b>
Judith Ryser	
<b>Complexity, Governance and the Smart City</b> .....	<b>171</b>
Domenico Camarda	
<b>Coworking Spaces and Urban Quality of Life in Istanbul</b> .....	<b>183</b>
Elif Kisar Koramaz, Eda Ozturk	
<b>CRISALIDE – Concept of Corporative Information System for Governance and Management of Digital City</b> .....	<b>191</b>
Pietro Elisei, Vasily V. Popovich, Manfred Schrenk	
<b>Das UrbanLab:Arrecife als architekturwissenschaftlicher Beitrag zur Erforschung transformativer Prozesse im urbanen Kontext</b> .....	<b>199</b>
Susanne Gerstberger	
<b>Decoding Cities to Model, Assess and Redesign them as Complex Urban Systems</b> .....	<b>209</b>
Nicholas P. Patorniti, Nicholas J. Stevens, Paul M. Salmon	
<b>Der Mensch als Sensor im Kontext der digitalen und sensorgestützten Präventionsassistentz – Grundlagen und Anwendungsszenarien für das Bauhandwerk</b> .....	<b>219</b>
Jan-Philipp Exner, Maximilian Derouet, Dirk Werth	
<b>Designing Non-Depressive Urban Built Environment: Case Study of Damietta City, Egypt</b> .....	<b>227</b>
Mona Maria, Hany Ayad, Rania Raslan, Salwa Tobar	

<b>Die Zukunft liegt im ländlichen Raum!</b> .....	237
Jeff Mirkes, Markus Nepl, Peter Zeile	
<b>EmoCycling – individuelles Sicherheitsempfinden von Radfahrenden in Karlsruhe</b> .....	247
Ida Rockenbach, Clotilde Minster, Peter Zeile	
<b>Energy Efficient Buildings in Smart Cities: Biomimicry Approach</b> .....	257
Nawal A. Mohamed, Ali F.Bakr, Asmaa E. Hasan	
<b>Enhanced Economic Typology for Spatial Economic Policy</b> .....	269
Federico Giaretta, Inge Penninx, Sophie De Mulder, Jan Zaman	
<b>Entwicklung eines Planungs- und Entscheidungsunterstützungssystems als Baustein für Smart Regions</b> .....	281
Matthias Henning, Matthias Pietsch, Jana Schlaugat	
<b>Erfolgsfaktoren und Hemmnisse zur Realisierung urbaner Produktion in Reallaboren</b> .....	291
Marcel Schonlau, Kerstin Meyer, Alexandra Lindner	
<b>ESPRESSO – systEmic Standardisation appRoach to Empower Smart cities and cOMmunities</b> .....	303
Martin Fabisch, Sascha Henninger	
<b>Establishing an Integrated Monitoring Concept for the Vienna Lighthouse Project Smarter Together</b> .....	311
Ali Hainoun, Hans-Martin Neumann, Nadine Schneeberger	
<b>Establishing the State of Spatial Integratedness of Innovative Public Transport Systems in Gauteng, South Africa</b> .....	319
Siphiwe Mbatha, Trynos Gumbo	
<b>Examining the Effectiveness of City of Johannesburg’s Policy and Legislative Frameworks in Inform Development and Operation of Integrated Public Transport Systems</b> .....	329
Brightnes Risimati, Trynos Gumbo	
<b>Exploring Barrier-Free as a Catalyst to Smart Cities Initiatives in Sub Saharan Africa</b> .....	339
Joseph A. Danquah, Alexander B. Marful, Daniel Duah	
<b>Fablabing the Cherrycake – über die Baukultur des ländlichen Raumes im digitalen Zeitalter</b> .....	353
Matthias Stippich	
<b>From Festivalisation of Public Space to the Right to Public Space: Deconstructing Social Infrastructure as a Conceptual Framework for the Town Hall Square in Vienna</b> .....	361
Astrid Krisch, Karin Hiltgartner	
<b>Heidelberg Hbf – BIM-Pilot: Weiterentwicklung Empfangsgebäude im städtischen Kontext</b> .....	371
Jens Aesche, Julian Prifti, Stephan Böhning	
<b>Identifying the Possibilities of Integrating Speed Train and the Bus Rapid Transit System through Mobile Payment and Information Dissemination</b> .....	385
Siphiwe Mbatha, Trynos Gumbo	
<b>Immersive Imagination in Urban Oases of Mindfulness: The VR-SenseCity Toolbox for Sensible, Emotional and Measurable Experiences in Future Smart Cities</b> .....	391
Lucas Paletta, Andrea Grabher, Amir Dini, Marlene Mayr, Anna Taberhofer, Edina Pokvic, Wolfgang Gunzer, René Pilz	
<b>Implementierung eines Werkzeuges zur Interpretation von Versorgungsnetzen aus dem Programmsystem STANET®</b> .....	401
Melanie Riester, Andreas Geiger	
<b>Incongruities of a Socialistic Smart City: a Case of Area Based Development in T. T. Nagar, Bhopal</b> .....	411
Ananya Sharma, Akhilesh Singh Shisodia	
<b>Influence of Road Connectivity and Public Transport Accessibility on Subjective Wellbeing during Travel: An Explanation from Travel Mode: Evidence from five Communities around Subway Stations in Harbin</b> .....	421
Li Zhen, Dong Yu, Dong Wei, Chen Yujie	
<b>Innovation im Mobilitätssharing – Einsatz von partizipativen Methoden</b> .....	431
Vanessa Sodl, Linda Dörrzapf, Michael Habiger, Hilda Tellioglu, Marlene Wagner, Martin Berger	
<b>Integrating Human Satisfaction into the Design Phase – Generating Motivation and Knowledge in Architectural Education</b> .....	443
Marcel Schweiker, Cornelia Moosmann, Andreas Wagner	
<b>Integriertes Monitoring als Werkzeug einer nachhaltigen Stadtentwicklung</b> .....	453
Marcel Schonlau, Christian Danowski-Buhren, Marvin Guth, Ulrike Klein, Alexandra Lindner	
<b>Isovist and Psycho-Physiological Stress at the Pedestrian Level: A Real-Time Measurement Case Study in a High-Density City</b> .....	463
Luyao Xiang, Georgios Papastefanou	
<b>Land Use and Physical Structure Changes: An Expo of Maboneng Precinct</b> .....	475
Bonolo Helen Letlape, Trynos Gumbo	
<b>Lifestyles, New Uses, and the Redevelopment of Industrial Heritage Sites: A Case Study of Strijp-S, Eindhoven</b> .....	483
Gamze Dane, Aloys Borgers, Femke Tilma	

<b>Linking Urban Regeneration to Sustainable Urban Development of Smart Cities</b> .....	493
Mai. M. Abdo, Hassan M. K. Abdel-Salam, Hany A. Ayad, Dina. S. Taha	
<b>Mapping the Spatial Integration of Motorised and Non-Motorised Transport Infrastructures: a Case Study of the City of Johannesburg</b> .....	503
Brightnes Risimati, Trynos Gumbo	
<b>New Assessment Method for Buildings and Districts towards “Net Zero Energy Buildings” Compatible with the Energy Scenario 2050</b> .....	511
Simon Schneider, Nadja Bartlmä, Jens Leibold, Petra Schöfmann, Momir Tabakovic, Thomas Zelger	
<b>Not Our Land: An Analysis of a Socially Dysfunctional Community in El Fayrouz, Red Sea Region, Egypt</b> .....	521
Hellen Aziz, Asmaa Abdelrazzak AbdelHalim, Ahmed Mokhtar, Salma Ellakany, Bendith Ly	
<b>Ontology-based Model of a Smart City</b> .....	533
Oksana Smirnova, Tatiana Popovich	
<b>Peer-to-Peer-Lastenrad-Sharing – Perspektiven verschiedener Zielgruppen</b> .....	541
Fabian Dorner, Martin Berger	
<b>Potenziale für den Einsatz gemeinschaftlich genutzter autonomer Fahrzeuge im ländlichen Raum</b> .....	553
Roman Klementsitz, Maria Angerer, Alfons Bauernfeind, Tobias Haider, Philipp Haydn	
<b>Potenziale von Open Data in der Stadtentwicklung – eine Rekonstruktion sozialer Milieus aus öffentlichen Datenbeständen</b> .....	563
Marvin Guth, Alexandra Lindner	
<b>Preferences for Carsharing-Facilitated Neighbourhoods: a Latent-Class Model</b> .....	573
Juan Wang, Gamze Dane, Harry Timmermans	
<b>Real “Smart Cities”: Insights from Civitas PROSPERITY</b> .....	583
Irina Rotaru	
<b>Requirements for Reliable and Flexible Smart Grids as Energy Networks in Smart Cities</b> .....	589
Jan-Philipp Exner, Maximilian Derouet, Christian Linn, Dirk Werth	
<b>Road Safety from Cyclist’s Perspective</b> .....	597
Magdalena Schmidkunz, Olaf Schroth, Peter Zeile, Ulrich Kias	
<b>Searching for Property Right for the Homeless in a Mega City – Will House Sharing in a Social Housing Work?</b> .....	605
Solomon Akinbogun, Clinton Aigbavboa, Trynos Gumbo	
<b>Semiautomatisches Verfahren zur Ableitung von Baublöcken</b> .....	615
Thorsten Kelm, Marcel Schonlau, Nathalie Pitz, Ulrike Klein	
<b>Shared, Automated, Electric: the Fiscal Effects of the “Holy Trinity”</b> .....	627
Mathias Mitteregger, Aggelos Soteropoulos, Johann Bröthaler, Fabian Dorner	
<b>Siedlungsgebundene Unterflur-Überwärmung und deren Risikopotenzial für Infrastruktur und Gesundheit</b> .....	637
Sascha Henninger, Martin Fabisch	
<b>Single and Double Loop Learning in Rotterdam Makers District: The Future of Urban Development and the Resilient City</b> .....	645
Gert-Joost Peek, Kees Stam	
<b>Smart Cities in India: Branded or Brain-dead?</b> .....	657
Vaishali Aggarwal	
<b>Smart City Governance in Practice – the Example of mySMARTLife Project in Hamburg</b> .....	671
Jörg Knieling, Katharina Lange	
<b>Smart Mobility: Technologies and Daily Routines</b> .....	679
Carolin Schröder, Gabriele Wendorf	
<b>Spatial Pattern of Digital Divide in Turkey</b> .....	685
Turgay Kerem Koramaz, Somaiyeh Nasrollahzade, Zeynep Ozdemir	
<b>Sustainable Real Estate Development in the Age of E-commerce – Implications of the Structural Change and resulting changed Requirements for Retail Property</b> .....	693
Josef Zimmermann, Kilian Burkholz	
<b>Sustainable Urban Development by Expanding the Green Roofs to Improve the Urban Environment Quality (Case Study: Karaj, the fourth most populous City in Iran)</b> .....	703
Sascha Henninger, Maral Abolghasemi Moghaddam	
<b>Systemische Vernetzung urbaner und ländlicher Räume – Erkennen, Formulieren, Entwerfen</b> .....	713
Katharina Graf, Petra von Both	
<b>The Assessment and Mapping of Urban Visual Pollution through an Assembly of Open Source Geospatial Tools</b> .....	723
Khydija Wakil, Malik Asghar Naeem, Ghulam Abbas Anjum, Abdul Waheed, Muhammad Jamal uddin Thaheem, Muhammad Qadeer ul Hussnain	

<b>The Development of an E-Participation Platform for Rural Areas in the Study Area of Niedernhall.....</b>	<b>731</b>
Patrick Würstle, Thunyathep Santhanavanich, Volker Coors	
<b>The Paths of History for Multicultural Tourism: a Smart Real World in the Metropolitan City of Cagliari (Italy).....</b>	<b>739</b>
Sonia Pintus, Chiara Garau, Pasquale Mistretta	
<b>The Politics of Digitised Boundaries in Vhembe District Municipality of South Africa.....</b>	<b>751</b>
Emaculate Ingwani, Rendani Musetha, Trynos Gumbo, Thembani Moyo	
<b>The Potential of Design Thinking for Tackling the “Wicked Problems” of the Smart City.....</b>	<b>761</b>
Brita Fladvad Nielsen, Daniela Baer, Savis Gohari, Eivind Junker	
<b>The Potential of Using Volunteered Locational Data in Planning for Smart Multi-Mobility Systems.....</b>	<b>771</b>
Thembani Moyo, Walter Musakwa, Alain Kibangu, Trynos Gumbo, Emaculate Ingwani	
<b>The Role of Spirit of Place to Achieve Emotional Smart City.....</b>	<b>781</b>
Noor Al-Kamoosi, Mohammed Qasim Al-Ani	
<b>The Smart City, Integrated Design and Planning and Urban Tech .....</b>	<b>793</b>
Iris Belle	
<b>The Willingness of Dutch Citizens to Participate in a Prosumer Community: A Stated Choice Experiment .....</b>	<b>799</b>
Gamze Dane, Aloys Borgers, Luc de Vet, Wiet Mazairac	
<b>Urban Densification and Urban Climate Change – Assessing Interaction through Densification Scenarios and Climate Simulations.....</b>	<b>809</b>
Wolfgang Loibl, Ghazal Etminan, Doris Österreicher, Matthias Ratheiser, Romana Stollnberger, Simon Tschannett, Tanja Tötzer, Milena Vuckovic, Karoline Walal	
<b>Urban Logistics Micro Hubs: Standardisation Meets Uniqueness .....</b>	<b>819</b>
Reinhold Schodl, Sandra Eitler, Bernhard Ennsner, Jürgen Schrampf, Gerda Hartmann	
<b>Usability of Open Data for Smart City Applications – Evaluation of Data, Development of Application and Creation of Visual Dashboards.....</b>	<b>825</b>
Stephan Lehmler, Syed Monjur Murshed, Louise Ansart, Yao Shen	
<b>Values of our “Home” as Fraudulent Friends – Home as a Confidence-Building Element in Corrupt Transactions .....</b>	<b>835</b>
Max Friedrich Bergmann	
<b>Virtual Design and BIM in Architecture and Urban Design – Potential Benefit for Urban Emotions Initiative .....</b>	<b>841</b>
Peter Zeile, Ivonne C. Zelling	
<b>Walk &amp; Feel – a New Integrated Walkability Research Approach.....</b>	<b>851</b>
Linda Dörrzapf, Peter Zeile, Ulrike Brocza, Yannik Schwomma, Bernd Resch, Anna Kovács-Győri, Martin Berger	
<b>Acoustic Quality and Health in Urban Environments – The SALVE Project.....</b>	<b>859</b>
Susanne Moebus, Robynne Sutcliffe, Bryce Lawrence, Salman Ahmed, Timo Haselhoff, Dietwald Gruehn	
<b>Centropemap and Centropestatistics – Cross-Border Thematic Mapping .....</b>	<b>865</b>
Clemens Beyer, Manfred Schrenk	
<b>CRISALIDE: Searching for Smart Solutions in Urban Development beyond the Political Slogans: a Case of Rostov-on-Don, Southern Russia .....</b>	<b>869</b>
Elena Batunova, Sergey Trukhachev	
<b>Die räumliche Dimension residenzieller Multilokalität, ein prädestiniertes thematisches Bindeglied zwischen Forschung und Lehre .....</b>	<b>875</b>
Markus Kaltenbach	
<b>Enhancing Citizen Participation through Serious Games in Virtual Reality .....</b>	<b>881</b>
Mirjam West, Onur Yildirim, Aislinn E. Harte, Adam Ramram, Nicholas W. Fleury, Vicente Carabias	
<b>Future Generation Cities: Open-Ended and Human Friendly .....</b>	<b>889</b>
Aleksandr Izarov	
<b>Ghent – Innovative Strategic Urban Development: New Transitions in the City and along the Old Dockyards .....</b>	<b>895</b>
Agnieszka Zajac	
<b>How to Meet the City – Urban Spaces for Friendly Encounters.....</b>	<b>901</b>
Tatjana Okresek-Oshima, Tobias Baldauf, Marie-Theres Okresek, Rupert Halbartschlager	
<b>Insane Cities and the Creation of Stereotypes for Cultural Identity.....</b>	<b>907</b>
Claudia Macías-Carrillo	
<b>Nachhaltige Transformation urbaner Räume: Eine produktive Stadt – eine lebenswerte Stadt?.....</b>	<b>913</b>
Sarah Westhoff, Alexandra Lindner	
<b>Nachhaltigkeitsindikatoren für die stadregionale Entwicklung .....</b>	<b>921</b>
Dominik Weiß, Frauke Rehorst, Theo Kötter	
<b>Neighbourhood Walkability Assessment in Tianjin, China: Needs to be Analyzed from a Complex System Perspective .....</b>	<b>927</b>
Guanqiong Che, Baoxing Qiu	

<b>no_faq. Artistic Research and the Potentials of Displaying as a Collective Research Tool.....</b>	<b>935</b>
Fanny Kranz	
<b>Redefining Smart Cities – Tradition versus Branding – a Tale of Varanasi .....</b>	<b>941</b>
Apurva Tomar, Noopur Gupta	
<b>Smart and Emotional – the City as a Work of Art .....</b>	<b>949</b>
Alexander Kolontay	
<b>Smart-City-Plattform, IoT – Herausforderungen für die Städte .....</b>	<b>955</b>
Gerhard Hartmann	
<b>Smart Governance – Werkzeuge für integrierte Prozesse im Verkehrsmanagement .....</b>	<b>963</b>
Stefan Kollarits, Andreas Köglmaier, Thomas Epp, Katharina Grundeis	
<b>Smart Integrated Ecological Approach for Geelong, Australia .....</b>	<b>969</b>
Hisham Elkadi	
<b>Smart Parking Policy in Varna, Bulgaria .....</b>	<b>977</b>
Lucia Ilieva	
<b>The City as the Place of Augmented Imagination.....</b>	<b>979</b>
Olivier Lefebvre	
<b>The Role of ICT in Mapping Resources for Sustainable Historic Urban Regeneration: Case Studies of Amsterdam and Salerno .....</b>	<b>985</b>
Lu Lu, Nadia Pintossi, Gamze Dane, Ana Pereira Roders	
<b>Using Co-Creation Methods to Solve Mobility Problems in Brussels .....</b>	<b>993</b>
Jesse Pappers, Imre Keserü, Cathy Macharis	
<b>BERiDE – Collaborative And Participatory Platform for Jakarta Smart City .....</b>	<b>1001</b>
Raja Tarigan, Arszandi Pratama	