

**Table of contents – Inhaltsverzeichnis:**

<b>PREFACE</b> .....	<b>5</b>
Manfred SCHRENK, Conference Director .....	5
<b>A Back Step before Proposing Smart Interventions. Fitting People Needs with Innovations</b> .....	<b>15</b>
Aniana Mereu.....	15
<b>A Simulation of Land Use/Cover Change for Urbanization on Chennai Metropolitan Area, India</b> .....	<b>25</b>
Vijayalakshmi Rajendran, Toshiyuki Kaneda .....	25
<b>A Smart Researching and Planning Tool for the Neuralgic Urban Zone: 3D-ZPA</b> .....	<b>35</b>
Angelika Psenner .....	35
<b>A Visionary Study on Urban Neighbourhood Models in Kabul City Based on Actual Surveys</b> .....	<b>45</b>
Sofia Sahab, Rim Meziani, Toshiyuki Kaneda.....	45
<b>An Urban Sensing System as Backbone of Smart Cities</b> .....	<b>55</b>
Benjamin Allbach, Sascha Henninger, Eugen Deitche.....	55
<b>Ancient Smartness of Tomorrow</b> .....	<b>65</b>
Cecilia Scoppetta.....	65
<b>ARchitecture – Augmented Reality Techniques and Use Cases in Architecture and Urban Planning</b> .....	<b>75</b>
Daniel Broschart, Peter Zeile .....	75
<b>Assessing Smart Locations – the MORECO Project</b> .....	<b>83</b>
Susanne Franz, Ulrike Reutter, Eva Haslauer, Dagmar Schnürch, Thomas Prinz.....	83
<b>Assessment of BIM Potentials in Interdisciplinary Planning through Student Experiment and Practical Case Study</b> .....	<b>91</b>
Iva Kovacic, Lars Oberwinter, Christoph Achammer, Michael Filzmoser.....	91
<b>Automated Urban Management Processes: Integrating a Graphical Editor for Modular Domain-Specific Languages into a 3D GIS</b> .....	<b>99</b>
Michel Krämer, Andreas Stein.....	99
<b>Building Smart Applications for Smart Cities – IGIS-based Architectural Framework</b> .....	<b>109</b>
Alexander Vodyaho, Nataly Zhukova .....	109
<b>Challenges and Opportunities to Develop a Smart City: A Case Study of Gold Coast, Australia</b> .....	<b>119</b>
Bhishna Bajracharya, David Cattell, Isara Khanjanasthiti.....	119
<b>Checking Smartness “On the Ground”: Historically Rooted Dilemmas, Future Challenges and Visions for a Smarter Metropolitan Area of Rome</b> .....	<b>131</b>
Cecilia Scoppetta.....	131
<b>CitInES Project – Tool for the Sustainable Energy Action Plan for Cities</b> .....	<b>141</b>
Nicolás Pardo García, Rébecca Aron, Clémence Bénévent, Sofia Burioli, Silvia Morigi.....	141
<b>City in Transition: Urban Open Innovation Environments as a Radical Innovation</b> .....	<b>151</b>
Gert-Joost Peek, Peter Troxler .....	151
<b>Competition between Cities and Regions in Europe – Can Smart Spatial Planning Interact with Gravitational Site Location Models for External Investment?</b> .....	<b>161</b>
Jan Zaman .....	161
<b>Concept of “Smart City” and its Practice in Poland. Case Study of Łódź City</b> .....	<b>169</b>
Ewelina Szczech.....	169
<b>Der Einsatz von Social Media im Stadtmarketing</b> .....	<b>181</b>
Alexander Masser, Hans-Jürgen Seimetz, Peter Zeile.....	181
<b>Deteminants of the Value of Houses: a Case Study Concerning the City of Cagliari, Italy</b> .....	<b>191</b>
Michele Argiolas, Sabrina Lai, Corrado Zoppi .....	191
<b>European Academic Smart Cities Network – Renewable Urban Energy Systems, Sustainable Mobility and ICT Technology Nexus for Smart Cities Studies</b> .....	<b>207</b>
Darya Bululukova, Harald Wahl, Mathias Ballner.....	207
<b>Externalities and Local Government Policy as Braking Factors of the Development of Water Supply Systems in the Russian Towns</b> .....	<b>217</b>
Andrey D. Maksimov .....	217
<b>Games in Urban Planning – a Comparative Study</b> .....	<b>239</b>
Bärbel Reinart, Alenka Poplin.....	239
<b>Global Competition needs Smart Solutions, Urban Design Elements on City Branding</b> .....	<b>249</b>
Hossein Mohamad Hassani .....	249
<b>Identifikation von Kriterien für den smarten Einsatz von Elektrobussen in den Netzen des ÖPNV</b> .....	<b>259</b>
Carina May, Conny Louen .....	259

<b>Identifying Cultural Ecosystem Services of Urban Green Infrastructure – Report about a Pilot Project undertaken in Lower Austria</b> .....	<b>269</b>
Christine Rottenbacher, Tim Cassidy .....	269
<b>In the Public Eye: Toward the Electronic Transparency of Planning Process</b> .....	<b>279</b>
Aleksandra Stupar, Aleksandra Djukic .....	279
<b>Influence of Transport on Urban and Rural Development in Bosnia and Herzegovina</b> .....	<b>287</b>
Nusret Drešković, Rahman Nurković .....	287
<b>Information-Analytical System for Managing Cities of Perm Region Spatial Development</b> .....	<b>295</b>
Didier Vancutsem, Svetlana V. Maksimova, Alexey Y. Zavialov, Kseniia O. Mezenina, Petr S. Mikushin.....	295
<b>Institutional Framework of Brownfield Regeneration in Serbia</b> .....	<b>303</b>
Ana Perić, Danilo Furundžić .....	303
<b>Integration of Emotional Behavioural Layer “EmoBeL” in City Planning</b> .....	<b>309</b>
Rania Raslan, Khaled Al-Hagla, Ali Bakr .....	309
<b>It’s Not Big, It’s Large: Mapping and Characterizing Urban Landscapes of a Different Magnitude based on EO Data</b> .....	<b>319</b>
Michael Wiesner, Hannes Taubenböck .....	319
<b>Lampertheim effizient – Herausforderungen für Mittelstädte im Rahmen der Smart-City-Debatte</b> .....	<b>329</b>
Carolin Dietrich, Anika Trum, Andreas Witte .....	329
<b>Land Acquisition Policy in India: An effective Inclusive Planning or Exclusive Planning Policy?</b> .....	<b>337</b>
Bikram Kumar Dutta .....	337
<b>Leben2050 – Bürgerbeteiligung in einer vorausschauenden Studie zu selbstbestimmtem Leben im Alter in Wien</b> .....	<b>349</b>
Niklas Gudowsky, Mahshid Sotoudeh, Leo Capari .....	349
<b>Leitprojekt ECR Energy City Graz-Reininghaus</b> .....	<b>357</b>
Ernst Rainer, Kersten Hofbauer, Hans Schnitzer, Thomas Mach, Stephan Maier, Alexander Passer, Helmuth Kreiner, Thomas Wieland, Yvonne Bormes .....	357
<b>Linked Open Data for Environmental Protection in Smart Regions – the New Challenge for the Use of Environmental Data and Information</b> .....	<b>367</b>
Karel Charvat, Sarmite Barvika, Maris Alberts .....	367
<b>Metrical Analyses on Population and Economic Growth and Urban “Quality Of Life” of Metropolitan Cities in China during the 00s</b> .....	<b>377</b>
Toshiyuki Kaneda, Meiyong Tian, Yang Wang, Mingji Cui, Renbao Jin .....	377
<b>Urban Sensing App – A Mobile Tool for Urban Sensing and Climate Monitoring in Smart Cities</b> .....	<b>387</b>
Benjamin Allbach, Sascha Henninger, Oliver Griebel.....	387
<b>Modelling Day and Night Time Population using a 3D Urban Model</b> .....	<b>397</b>
Monika Kuffer, Richard Sliuzas .....	397
<b>More Green Open Space in a Densified City</b> .....	<b>407</b>
Silja Tillner .....	407
<b>Moving Objects Tracking in Distributed Maritime Observation Systems</b> .....	<b>417</b>
Vasily V. Popovich, Victor I. Ermolaev, Andrei V. Makshanov, Stanislav A. Vlasov.....	417
<b>New Concepts for Urban Highways Control</b> .....	<b>423</b>
Martin Gregurić, Edouard Ivanjko, Sadko Mandžuka .....	423
<b>Open Street Map for Multi-Modal Freight Transport Planning</b> .....	<b>433</b>
Markus Mayr, Gerhard Navratil .....	433
<b>Ökoptopia – Multidimensional Cities need Multidimensional Data</b> .....	<b>443</b>
Hans-Georg Frantz .....	443
<b>Planning Smart Cities ... Sustainable, Healthy, Liveable, Creative Cities ... Or Just Planning Cities?</b> .....	<b>447</b>
Judith Ryser .....	447
<b>Quality of Time Spent Matters!</b> .....	<b>457</b>
Barbara Goličnik Marušić, Damjan Marušić .....	457
<b>Recycling Architecture: the Redefinition of Recycling Principles in the Context of Sustainable Architectural Design</b> .....	<b>467</b>
Milan Šijaković, Ana Perić.....	467
<b>Resilient and Smart Public Spaces: the Div@ter Digital Platform</b> .....	<b>477</b>
Marichela Sepe .....	477
<b>Rethinking the Strategic Dimensions of Smart Cities in China’s Industrial Park Developments: the Experience of Suzhou Industrial Park, Suzhou, China</b> .....	<b>487</b>
Joon Sik Kim, Xiangyi Wang .....	487
<b>Scenario Approach for Image Processing in Smart City</b> .....	<b>497</b>
Filipp Galiano, Nataly Zhukova, Maksim Pelevin.....	497

<b>Scientific and Practical Understandings of Smart Cities</b> .....	<b>507</b>
Corinne Moser, Thomas Wendel, Vicente Carabias-Hütter .....	507
<b>Share it – Don't Own it: Space Sharing as a Smart Solution for Cities and Regions?</b> .....	<b>515</b>
Petra Hirschler, Sibylla Zech.....	515
<b>Simulation Game for Future Mobility – Support Tool for the Discussion Process about Scenarios of Future Mobility in SUMP Processes</b> .....	<b>525</b>
Conny Louen, Daniel Horn .....	525
<b>Smart Cities and ICT – Insights from the Morgenstadt project</b> .....	<b>533</b>
Willi Wendt, Dominik Kalisch, Thomas Vandieken, Wolf Engelbach .....	533
<b>Smart Cities between Ethics and Aesthetics</b> .....	<b>543</b>
Chiara Garau, Luigi Mundula, Andrea Salustri.....	543
<b>Smart Cities Need Smart Citizens, but What About Smart Children?</b> .....	<b>553</b>
Sabine Hennig .....	553
<b>Smart City – a Quest for Innovation within the EPS Framework</b> .....	<b>563</b>
Małgorzata Hanzl, Antonina Młynarczyk, Alizee Tessier, Marcos Meiriño Munoz, Iban Micieces, Fanny Noirot.....	563
<b>Smart Environment for Smart Cities: Assessing Urban Fabric Types and Microclimate Responses for Improved Urban Living Conditions</b> .....	<b>573</b>
Katrin Hagen, Beatrix Gasienica-Wawrytko, Wolfgang Loibl, Stephan Pauleit, Richard Stiles, Tanja Tötzer, Heidelinde Trimmel, Mario Köstl, Wolfgang Feilmayr .....	573
<b>Smart Kids Make Cities Smarter</b> .....	<b>583</b>
Cecilia Scoppetta.....	583
<b>Smart Navigation for Modern Cities</b> .....	<b>593</b>
Nataly Zhukova, Oksana Smirnova .....	593
<b>Smart Planning &amp; Smart Cities</b> .....	<b>603</b>
Jan-Philipp Exner .....	603
<b>Smarter Cities – ein Modell lebenswerter Städte</b> .....	<b>611</b>
Bettina Mandl, Susanne Zimmermann-Janschitz .....	611
<b>Smarting the City or Development: The Dilemma of the Post-Oil Countries in sub-Saharan Africa</b> .....	<b>621</b>
Alexander Boakye Marful .....	621
<b>Social Media Geographic Information: Current Developments and Opportunities in Urban and Regional Planning</b> .....	<b>631</b>
Pierangelo Massa, Michele Campagna.....	631
<b>State Space Model for Accounting Smart City Heating by Municipal Solid Waste Management</b> .....	<b>641</b>
Sanhita Bandyopadhyay .....	641
<b>Technological Solutions for Knowledge Management in Smart Cities</b> .....	<b>653</b>
Nataly Zhukova.....	653
<b>The City of Matera and the Sassi: Smart Places with a Dantean Attraction</b> .....	<b>665</b>
Tiziana Cardinale, Laura Pavia, Giovanni Zucchi.....	665
<b>The E-City or the City on the Cloud</b> .....	<b>675</b>
Josep Lluís Miralles i Garcia.....	675
<b>The Effect of Potential-based Land Tax on Land Utilization</b> .....	<b>685</b>
Gerhard Navratil, Reinfried Mansberger, Christoph Twaroch, Gerhard Muggenhuber, Reinhold Wessely .....	685
<b>The Reification of Resilience and the Implications for Theory and Practice</b> .....	<b>693</b>
Ksenia Chmutina, Gonzalo Lizarralde, Lee Boshier, Andrew Dainty.....	693
<b>The Research on New Town Development Strategy in Metropolitan Outskirts: A Case Study of Liangzhu New Town</b> .....	<b>701</b>
Qi Fan, XM. Hu, Y. Zhao.....	701
<b>The TRANSFORM DSE – an Interactive Decision Support Environment for Serving Smart City Strategy Development and Local Measure Implementation</b> .....	<b>711</b>
Wolfgang Loibl, Stefan Vielguth, Jan Peters-Anders, Sebastian Möller, Daiva Jakutyte-Walangitang, Joost Brinkman, Ivo Wenzler, Alex Cramwinckel, Michele Fumarola .....	711
<b>The Use of Social Media in Public Transit Systems: The Case of the Gautrain, Gauteng Province, South Africa: Analysis and Lessons Learnt</b> .....	<b>721</b>
Walter Musakwa .....	721
<b>TRANSFORM – Governing the Smart City by Projects</b> .....	<b>729</b>
Christof Schremmer, Heidi Collon, Max Kintisch, Stephanie Kirchmayr-Novak, Ursula Mollay, Barbara Saringer-Bory.....	729
<b>Unort Gewerbegebiet? Qualitätsvolle Freiräume als Grundlage für Arbeitsorte</b> .....	<b>739</b>
Martina Jauschneg, Myriam Maier, Peter Höger, Volkmar Pamer, Rainer Holzer .....	739

<b>Urban Development Simulator: An Interactive Decision Support Tool for Urban Planners Enabling Citizen's Participation.....</b>	<b>749</b>
Ernst Gebetsroither-Geringer, Wolfgang Loibl .....	749
<b>Urban Green Infrastructure Planning as a Contribution to the Smart "Green" City.....</b>	<b>757</b>
Florian Reinwald, Doris Damyanovic, Christiane Brandenburg, Brigitte Alex, Birgit Gantner, Christina Czachs, Jürgen Preiss ....	757
<b>Use of ICTs and Mass Media in the Planning Processes: the Two Sides of the Same Coin.....</b>	<b>763</b>
Federica Leone .....	763
<b>Virtuelle Leerstandsbespielung – „Pop-Up-Zwischennutzung“ mittels Augmented Reality .....</b>	<b>773</b>
Christoph Holderle, Stefan Höffken, Martin Memmel, Peter Zeile .....	773
<b>Wer plant die Planung? – Widersprüche in Theorie und Praxis.....</b>	<b>783</b>
Harald Frey.....	783
<b>„What is planning for?“ Die Evaluation von strategischer Stadtentwicklungsplanung am Beispiel Wohnen .....</b>	<b>793</b>
Judith Bornhorst .....	793
<b>Application of Aggregated Indices Randomization Method for Prognosing the Consumer Demand on Features of Mobile Navigation Applications .....</b>	<b>803</b>
Sergey Dotsenko, Andrey Makshanov, Tatiana Popovich.....	803
<b>Beiträge innovationsorientierter Unternehmensförderung zur Umsetzung des Smart-City-Konzepts am Beispiel Wien .....</b>	<b>807</b>
Alfried Braumann, Dominic Weiss.....	807
<b>Blue City Mannheim – innovative Konzepte für Konversionsflächen in Mannheim.....</b>	<b>817</b>
Alexander Kuhn, Dorothea Bartnik, Walter Rhiem.....	817
<b>CentropESTATISTICS – a Tool for Cross-Border Data Presentation.....</b>	<b>823</b>
Manfred Schrenk, Clemens Beyer, Norbert Ströbinger .....	823
<b>Climate Neutral City Districts – the Smartest Form of a City's Districts?.....</b>	<b>831</b>
Michael Erman .....	831
<b>Daten, Informationen und Wissen zu Alltagswegen – eine Voraussetzung für Smart Cities?!.....</b>	<b>839</b>
Bente Knoll.....	839
<b>Digging into the Smartness: A Short Technopolitical (Pre)History of Vienna's Urban Lakeside .....</b>	<b>845</b>
Aníbal García Arregui .....	845
<b>EmoCycling – Analysen von Radwegen mittels Humansensorik und Wearable Computing.....</b>	<b>851</b>
Stefan Höffken, Johann Wilhelm, Dennis Groß, Benjamin S. Bergner, Peter Zeile .....	851
<b>European Standards for Vocational Training in Urban Regeneration.....</b>	<b>861</b>
Krzysztof Jan Chuchra, Marek Bryx, Julia Neuschmid .....	861
<b>Exploring Population Distribution and Motion Dynamics through Mobile Phone Device Data in Selected Cities – Lessons Learned from the UrbanAPI Project .....</b>	<b>871</b>
Jan Peters-Anders, Wolfgang Loibl, Johann Züger, Zaheer Khan, David Ludlow .....	871
<b>Garden in Motion – an Experience of Citizens Involvement in Public Space Regeneration .....</b>	<b>877</b>
Sara Lorusso, Gerardo Sassano, Michele Scioscia, Antonio Graziadei, Pasquale Passannante, Sara Bellarosa, Francesco Scaringi, Beniamino Murgante .....	877
<b>Infographics for Smart People in Smart Cities .....</b>	<b>887</b>
Kersten Nabielek .....	887
<b>L(i)ebenswerte Quartiere – Wohnportraits als Beitrag zur smarten Planung?!.....</b>	<b>897</b>
Mechtild Stiewe, Regina Sidel.....	897
<b>Mobilstationen – Bausteine für eine zukunftsfähige Mobilität in der Stadt .....</b>	<b>903</b>
Jan Garde, Hendrik Jansen, Daniel Bläser.....	903
<b>Modellierung raum-zeitlicher Bevölkerungsverteilungsmuster im Katastrophenmanagementkontext .....</b>	<b>909</b>
Klaus Steinnocher, Christoph Aubrecht, Heinrich Humer, Hermann Huber .....	909
<b>Multilayer Information Management System for Personalized Urban Pedestrian Routing .....</b>	<b>915</b>
Harbil Arregui, Patrick Krejci, Estibaliz Loyola, Oihana Otaegui.....	915
<b>Narrative Urban Mapping .....</b>	<b>921</b>
Renate Krause, Stefan Höffken, Bernd Streich.....	921
<b>Neue Einblicke – Social Media Monitoring in der Stadtplanung .....</b>	<b>931</b>
Lucas Joa, Stefan Höffken .....	931
<b>Regional Identity and Culture in Intercompany Networks – a Case of Transdanubian Winery Networks .....</b>	<b>941</b>
Árpád Brányi, László Tamándl.....	941
<b>RegioProjektCheck – New Instruments to Evaluate the Impacts of Housing, Industry and Retail Projects. Case Study: New Supermarkets and their Effects on Existing City Centres .....</b>	<b>947</b>
Sascha Anders .....	947

<b>Sharing Geographic Data: How to Update Distributed or Replicated Data .....</b>	<b>959</b>
Andrew U. Frank.....	959
<b>Smart Cities as a Tool to Tackle Global Challenges.....</b>	<b>967</b>
Marc Montlleó, Gustavo Rodríguez, Itzel Sanromà.....	967
<b>Smart City Labs als Möglichkeitsraum für technologische und soziale Innovationen zur Steigerung der Lebensqualität in Städten .....</b>	<b>975</b>
Barbara Hammerl.....	975
<b>Smart Governance for Smart Region: The Yaroslavl Region Case .....</b>	<b>983</b>
Anastasia Dubova, Dmitry Razumov.....	983
<b>Smarte Städte brauchen smarte Unternehmungen .....</b>	<b>985</b>
Hans Schnitzer.....	985
<b>Smartes Straßendesign für Smart Cities .....</b>	<b>991</b>
Dieter Schwab, Stefan Müllechner.....	991
<b>Social Media Data in Tourism Planning: Analysing Tourists' Satisfaction in Space and Time .....</b>	<b>997</b>
Roberta Floris, Michele Campagna.....	997
<b>Spatial Plan of the Republic of Serbia in the light of Digital Agenda for Europe 2020.....</b>	<b>1005</b>
Ljiljana Živković.....	1005
<b>Städtebauliche Kalkulation mit Decision Support Infrastructure – das Beispiel der Analyse ökonomischer Wirkungen eines kommunalen Baulandmodells.....</b>	<b>1015</b>
Dominik Weiß, Theo Kötter.....	1015
<b>The Path Towards Smart Cities in China: From the Case of Shanghai Expo 2010.....</b>	<b>1023</b>
Yanlin Zhou.....	1023
<b>The Role of Logistics Services in Smart Cities: the Experience of ENCLOSE Project.....</b>	<b>1029</b>
Giorgio Ambrosino, Stefan Guerra, Irene Pettinelli, Carlos Sousa.....	1029
<b>Urban Living – Smart &amp; Sustainable!?! – Tool für den Wohnungsvergleich .....</b>	<b>1035</b>
Susanne Supper.....	1035
<b>What could be the “Imaginary Institution” of the City? .....</b>	<b>1041</b>
Olivier Lefebvre.....	1041
<b>Will the Guidebook “Green and Blue Spatial Planning” be a Value Help for Styrian Cities to Become a “Smart City” .....</b>	<b>1047</b>
Christine Schwabegger.....	1047
<b>Smart Governance Answers to Metropolitan Peripheries: Regenerating the Deprived Area of the Morandi Block in the Tor Sapienza Neighbourhood (Rome) .....</b>	<b>1051</b>
Pietro Elisei, Angela D’Orazio, Maria Prezioso.....	1051