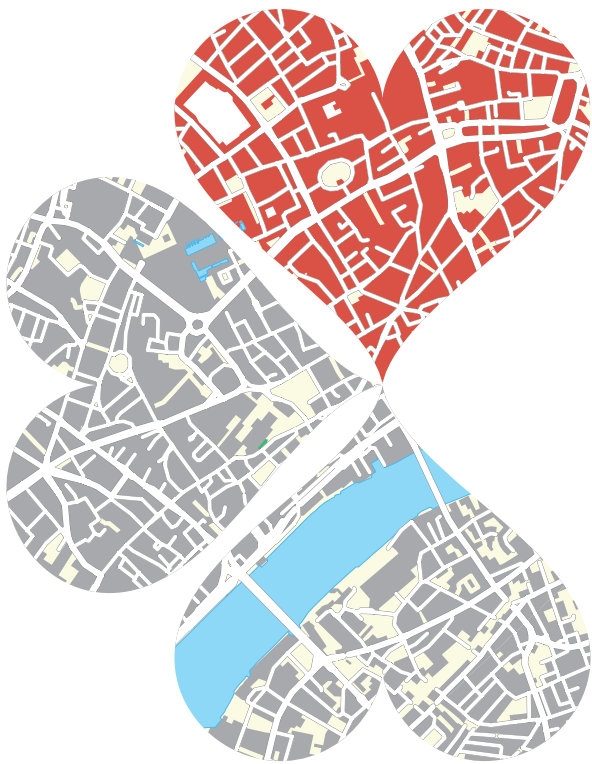


# REAL CORP 2019

PRELIMINARY

## LIST OF PRESENTATIONS

24<sup>th</sup> International Conference on Urban Planning and Regional Development in the Information Society



# Is this the Real World?

## PERFECT SMART CITIES vs. REAL EMOTIONAL CITIES



2-4 APRIL 2019, KARLSRUHE INSTITUTE OF TECHNOLOGY  
ENGLERSTRASSE 11, 76131 KARLSRUHE, GERMANY

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## REAL CORP 2019 KEYNOTE AND PLENARY SPEAKERS

**Anke KARMANN-WOESSNER (Prof. Dr.-Ing.; City of Karlsruhe, Head of Urban Planning Department)**  
“Spatial Agenda Karlsruhe” („Räumliches Leitbild Karlsruhe und internationaler Kontext“) (*working title*)

**Bernd STREICH (Prof.em. Dr.)**  
“Beyond all we Know about Cities – so far”

**Beniamino MURGANTE (Prof. Dr. , University of Basilicata)**  
“Smart city or Urban Science?”

**Pierre LACONTE (Dr., President, Foundation for the Urban Environment – FFUE)**  
“Smart and emotional sustainable cities”

**Till NAGEL (Prof. Dr., Hochschule Mannheim)**  
(title of speech to be announced)

**Ismael FERNANDEZ MEJIA (Arch. Dr.; International Consultant, Former President ISOCARP, Mexico)**  
“The Return to the City State”

**Jelle RIJPMAN (Strategisch adviseur/directeur-eigenaar Jelle Rijpman Advies, Eindhoven, NL)**  
“A Philosophy of the Future Urban and Regional Planning”

co-authors:

Irena Itova; *University of Westminster, School of Architecture and Cities; London, UK*

Mieke Oostra; *University of Applied Science Utrecht, New Energy in the City; Utrecht, NL*

**Peter ROBINSON (International Planning Consultant), t. b. c.**  
(title of speech to be announced)

## REAL CORP 2019 SPECIAL TOPICS

### Urban Emotions

co-ordinated and chaired by Dr. Peter Zeile

### Education meets research (Lehre hoch Forschung)

co-ordinated and chaired by Prof. Dr. Markus Neppi

### City Lights – Licht im öffentlichen Raum

co-ordinated and chaired by Arch. Dr.-Ing. Martin Töllner





## REAL CORP 2019 SPECIAL TOPIC: City Lights

### CITY LIGHTS: Licht im öffentlichen Raum – emotionale Faktoren als Beitrag zur smarten Stadt

Koordiniert und moderiert von Arch. Dr.-Ing. Martin TÖLLNER

Rund um den Wechsel in das neue Jahrtausend war das Licht im öffentlichen Raum ein dominantes Thema. Städte entdeckten die Bedeutung des Lichts im öffentlichen Raum für sich. Die Qualität der Straßenbeleuchtung wurde hinterfragt, Energieeffizienz und Ökologie unterstrichen die Bedeutung des Themas. Viele Städte entwickelten eine Strategie zu Umgang mit dem Licht im öffentlichen Raum, vielerorts wurden Masterpläne für die Beleuchtung des öffentlichen Raumes und für die Anstrahlung bedeutender Bauwerke aufgestellt. Danach wurde es still um das Thema. Pläne wurden umgesetzt, die LED revolutionierte die Beleuchtung grundlegend. Manche Städte profitieren von den Anstrengungen der Zeit und setzen sie weiter um, andere gehen neue Wege und wieder andere haben das Thema einem Betreiber übertragen und ad acta gelegt. Dabei bieten sich gerade in der smarten Stadt ganz neue Möglichkeiten, mit Licht umzugehen, es bewusst einzusetzen, effizient zu steuern und Stimmungen zu wecken. Licht ist wichtig für die gefühlte Sicherheit. Der Verzicht auf Licht ist gut für die Umwelt. Diesem „Weniger ist mehr“ und „Qualität ist besser“ soll in dieser Session nachgespürt werden. Technik und Emotionalität sind die Themen des Stadtlichts am Anfang des 21. Jahrhunderts.

**Felix Reinhold** ([www.hannover-leuchtet.com](http://www.hannover-leuchtet.com))

**Rainer Barth** (Abteilungsleiter Stadtbeleuchtung, Stadt Leipzig, Verkehrs- und Tiefbauamt)

**Mary-Anne Kyriakou** (Prof., Lehrstuhl Lichtgestaltung Hochschule Ostwestfalen-Lippe)

**Andrew Holmes** (Dipl.Ing. M.E.D. FreierArchitekt BDA)

## REAL CORP 2019 SPECIAL TOPIC: Education meets research (Lehre hoch Forschung)

### Archiv und Wirklichkeiten – Wissensproduktion zwischen Objektivität und Kontextualität (reviewed paper)

Manuela Gantner; KIT, EKUT Architekturtheorie; Karlsruhe, DE

### Bau auf! Kreislaufgerechte Architektur in der Lehre (reviewed paper)

Sandra Böhm; KIT Karlsruhe, Fachgebiet Nachhaltiges Bauen; Karlsruhe, DE  
Dirk E. Hebel; KIT Karlsruhe, Fachgebiet Nachhaltiges Bauen; Karlsruhe, DE

### EcoID: Landscape as Urban Identity (reviewed paper)

Susanne Gerstberger; Karlsruhe Institute of Technology, Landscape Architecture; Karlsruhe, DE

### Urban Lab:Arrecife 1.0-3.0 (reviewed paper)

Susanne Gerstberger; Karlsruhe Institute of Technology, Landscape Architecture; Karlsruhe, DE

### Die räumliche Dimension residenzieller Multilokalität, ein prädestiniertes thematisches Bindeglied zwischen Forschung und Lehre

Markus Kaltenbach; KIT, IESL/RBL; Karlsruhe, DE

### no\_fa. Artistic Research and the Potentials of Displaying as a Collective Research Tool

Fanny Kranz; KIT Karlsruhe, Fakultät für Architektur, Fachgebiet Bildende Kunst; Karlsruhe, DE





## REAL CORP 2019 special challenge: Real Smart Cities – Squaring the Circle?

### **Energy Efficient Buildings in Smart Cities: Biomimicry Approach** (reviewed paper)

Nawal Ahmed; *Faculty of Engineering, Architecture Department; Alexandria, Egypt*

Ali Bakr; *Faculty of Engineering, Architecture Department; Alexandria, Egypt*

Asmaa Hassan; *Faculty of Engineering, Architecture Department; Alexandria, Egypt*

### **Identifying and Incentivising the Core Values of Smart Cities and Communities: Lessons from Three Design Thinking Experiments in Norway** (reviewed paper)

Brita Nielsen; *NTNU, Department of Architecture and Urban Planning; Trondheim, Norway*

Daniela Baer; *SINTEF Building and Infrastructure Research Institute; Trondheim, Norway*

Eivind Junker; *NTNU, Department of Architecture and Urban Planning; Trondheim, Norway*

Judith Borsboom-van Beurden; *NTNU, Department of Architecture and Urban Planning; Trondheim, Norway*

### **Real “Smart Cities”: Insights from Civitas PROSPERITY** (reviewed paper)

Irina Rotaru; *Cities on the Move; Bucharest, Romania*

### **Smart Cities Require Work. Discovering and Defining Actions that Support Supermixed Cities** (reviewed paper)

Liesbeth Huybrechts; *U Hasselt, Faculty of Architecture; Diepenbeek, Belgium*

Federico Giaretta; *Architecture Workroom Brussels; Brussels, Belgium*

Jan Zaman; *Environment Department Flanders; Brussels, Belgium*

Inge Pennincx; *Environment Department Flanders; Brussels, Belgium*

Sophie De Mulder; *Environment Department Flanders; Brussels, Belgium*

### **Spatial Pattern of Digital Divide in Turkey** (reviewed paper)

Turgay Kerem Koramaz; *Istanbul Technical University, Department of Urban and Regional Planning; Istanbul, Turkey*

Somaiyeh Nasrollahzade; *Istanbul Technical University; Istanbul, Turkey*

Zeynep Ozdemir; *Istanbul Technical University; Istanbul, Turkey*

### **Visioning Smart City Governance** (reviewed paper)

David Ludlow; *Bristol, UK*

### **Blind Spots in Smart Cities**

Carlos Alvarez-Pereira; *INNAXIS Foundation; Madrid, Spain*

Irina Rotaru; *Cities in Movement; Bucharest, Romania*

### **Intelligent Transit A Model for Conscious Cities**

Robert Swope; *Metro Nashville City Council, City Council; Nashville, USA*

### **Leitfaden zur Umsetzung von Smart-City-Initiativen**

Vicente Carabias; *ZHAW Zurich University of Applied Sciences, School of Engineering; Winterthur, CH*

Jörg Musiolik; *ZHAW Institut für Nachhaltige Entwicklung; Winterthur, CH*

Evelyn Lobsiger-Kägi; *ZHAW Institut für Nachhaltige Entwicklung; Winterthur, CH*

Pascal Vögeli; *ZHAW Institut für Nachhaltige Entwicklung; Winterthur, CH*

Anna Kohler; *ZHAW Institut für Nachhaltige Entwicklung; Winterthur, CH*

Onur Yildirim; *ZHAW Institut für Nachhaltige Entwicklung; Winterthur, CH*

### **Smart and Emotional – the City as a Work of Art**

Alexandr Kolontay; *GAU Institute of the General Plan of Moscow; Moscow, Russia*





## Changes in the physical structure of cities due to digitization

### **Erfolgsfaktoren und Hemmnisse zur Realisierung urbaner Produktion in Reallaboren** (reviewed paper)

Marcel Schonlau; Hochschule Bochum, Geodäsie; Bochum, DE  
Kerstin Meyer; Institut Arbeit und Technik, Raumkapital; Gelsenkirchen, DE  
Alexandra Lindner; Hochschule Bochum, Dezernat Forschungsförderung; Bochum, DE

### **Investigating Urban Growth Dynamic – Land Surface Temperature Relationship** (reviewed paper)

Lucia Saganeiti; University of Basilicata, Laboratory of Urban and Regional Systems Engineering; Potenza, Italy  
Angela Pilogallo; University of Basilicata, Laboratory of Urban and Regional Systems Engineering; Potenza, Italy  
Francesco Scorza; University of Basilicata, Laboratory of Urban and Regional Systems Engineering; Potenza, Italy  
Beniamino Murgante; University of Basilicata, Laboratory of Urban and Regional Systems Engineering; Potenza, Italy

### **Land Use and Physical Structure Changes: An Expo of Maboneng Precinct** (reviewed paper)

Bonolo Letlape; University of Johannesburg, Department of Town and Regional Planning; Doorfontein, South Africa  
Trynos Gumbo; University of Johannesburg, Town and Regional Planning ; Doorfontein , South Africa

### **Requirements for Reliable and Flexible Smart Grids as Energy Networks in Smart Cities** (reviewed paper)

Jan-Philipp Exner; AWS-Institut für digitale Produkte und Prozesse gGmbH; Saarbrücken, DE  
Maximilian Derouet; AWS-Institut für digitale Produkte und Prozesse gGmbH; Saarbrücken, DE  
Christian Linn; AWS-Institut für digitale Produkte und Prozesse gGmbH; Saarbrücken, DE  
Dirk Werth; AWS-Institut für digitale Produkte und Prozesse gGmbH; Saarbrücken, DE

### **Traces of the Cloud – Street Cabinets as Physical Manifestations of the Ongoing Digitisation of the City** (reviewed paper)

Georg Bautz; University of Natural Resources and Life Sciences, Vienna, Institute of Landscape Architecture; Vienna, AT  
Lilli Lička; University of Natural Resources and Life Sciences, Vienna, Institute of Landscape Architecture; Vienna, AT

## Real World Territories vs. Info Spaces

### **Automatisiert Bewegen durch Stadt und Land – gesellschaftliche Implikationen der Implementierung von ITS-Technologien in das Verkehrsgeschehen des zukünftigen Mobilitätssystems** (reviewed paper)

Heinz Dörr; arp-planning.consulting.research, arp-planning.consulting.research; Wien, AT

### **Street as Communication Platform – Case Study of Piotrkowska Street Information System** (reviewed paper)

Malgorzata Hanzl; Lodz University of Technology, Institute of Architecture and Town Planning; Lodz, Poland  
Grażyna Budzińska; Lodz University of Technology, International Faculty of Engineering; Lodz, Poland  
Robin Rebman; Hochschule für Technik und Wirtschaft des Saarlandes; Saarbrücken, DE  
Jordan Gomes; Universite de Nantes; Nantes, France  
Joost ten Brücke; Saxion University; Twente, Enschede, NL  
Simone van Tilburg; Avans University of Applied Sciences; 's Hertogenbosch, NL







## Tradition vs. Branding: Keeping and creating identity, spirit, emotions of cities and places

### **Branding so Good: from Jeppestown to Maboneng Precinct** (reviewed paper)

Bonolo Letlape; *University of Johannesburg, Department of Town and Regional Planning; Doornfontein, South Africa*  
Trynos Gumbo; *University of Johannesburg, Town and Regional Planning ; Doornfontein , South Africa*

### **Coworking Spaces and Urban Quality of Life in Istanbul** (reviewed paper)

Elif Kisar Koramaz; *Istanbul Commerce University; Istanbul, Turkey*  
Eda Ozturk; *Istanbul Commerce University; Istanbul, Turkey*

### **Not Our Land: An Analysis of a Socially Dysfunctional Community in El Fayrouz, Red Sea Region, Egypt** (reviewed paper)

Hellen Aziz; *TU Berlin, Urban development department; El Mahlla El Kubra, Egypt*  
Asmaa Abdelrazzak AbdelHalim; *TU Berlin, Urban Development Department ; Alexandria , Egypt*  
Ahmed Gaballah ; *TU Berlin, Urban Development Department ; El Mahlla El Kubra, Egypt*  
Salma Ellakany; *TU Berlin, Urban Development Department ; Cairo , Egypt*  
Bendith Ly; *TU Berlin, Urban Development Department ; Kandal, Cambodia*

### **The Paths of History for a Multicultural Tourism: a Smart Real World in the Metropolitan City of Cagliari (Italy)** (reviewed paper)

Sonia Pintus; *University of Cagliari, Dep. of Civil and Environmental Engineering and Architecture; Cagliari, Italy*  
Chiara Garau; *University of Cagliari, Dep. of Civil and Environmental Engineering and Architecture; Cagliari, Italy*  
Pasquale Mistretta; *University of Cagliari, Dep. of Civil and Environmental Engineering and Architecture; Cagliari, Italy*

### **Values of our “Home” as Fraudulent Friends – Home as a Confidence-Building Element in Corrupt Transactions** (reviewed paper)

Max Friedrich Bergmann; *Düsseldorf, DE*

### **Chances for Fortunate Coincidences**

Tobias Baldauf; *bauchplan ).(. , landscape architecture/urbanism; Munich, DE*  
Tatjana Okresek-Oshima; *bauchplan).(. , public relation; Munich, DE*  
Marie-Theres Okresek; *bauchplan).(. , landscape architecture; Munich, DE*  
Rupert Halbartschlager; *bauchplan).(. , landscape architecture; Munich, DE*

### **Establish System of Brandings Rooted in the Tradition through Urban Design**

Lei Li; *Beijing, China*

### **Insane Cities and the Creation of Stereotypes for Cultural Identity**

Claudia Macías-Carrillo; *UAEM, Nurse Faculty; Col. Volcanes, Cuernavaca; Morelos, Mexico*

### **Redefining Smart Cities – Tradition versus Branding – a Tale of Varanasi**

Apurva Tomar; *Madhav Institute of Technology and Science, Department of Architecture; Gwalior, India*  
Noopur Gupta; *Madhav Institute of Technology and Science, Department of Architecture; Gwalior, India*

### **The City as the Place of Augmented Imagination**

Olivier Lefebvre; *Olivier Lefebvre Consultant; Paris, France*





## Real Smart Cities – High Tech and High Quality of Life: integrated/holistic approaches

### **A Smart Home Network for Proactive Users** (reviewed paper)

Sabrina Romano; *ENEA, DTE SEN SCC*; Rome, Italy

Martina Botticelli; *Marche Polytechnic University, Department of Information Engineering*; Ancona, Italy

Andrea Monteriù; *Marche Polytechnic University, Department of Information Engineering*; Ancona, Italy

Francesca Dionisi; *ENEA, DTE SEN SCC*; Rome, Italy

### **Abstract Smart Space and Concrete Risks** (reviewed paper)

Ulrich Ufer; *Karlsruhe Institute of Technology, ITAS*; Karlsruhe, DE

Sadeeb Ottenburger; *Karlsruhe Institute of Technology, IKET*; Karlsruhe, DE

### **Bright Cities and City Information Modeling** (reviewed paper)

Luigi Mundula; Cagliari, Italy

Sabrina Auci; Palermo, Italy

Emanuela Quaquero; Cagliari, Italy

### **Establishing an Integrated Monitoring Concept for the Vienna Lighthouse Project Smarter Together** (reviewed paper)

Ali Hainoun; *AIT Austrian Institute of Technology GmbH, Sustainable Buildings and Cities, Center for Energy*; Vienna, AT

Hans-Martin Neumann; *AIT Austrian Institute of Technology GmbH, Sustainable Buildings and Cities, Center for Energy*; Vienna, AT

### **Establishing the State of Spatial Integratedness of Innovative Public Transport Systems in Gauteng, South Africa** (reviewed paper)

Siphiwe Mbatha; *University of Johannesburg, Town and Regional Planning*; Johannesburg, South Africa

Trynos Gumbo; *University of Johannesburg, Town and Regional Planning*; Johannesburg, South Africa

Siphiwe Mbatha; *University of Johannesburg, Quality and Operations Management*; Johannesburg, South Africa

Trynos Gumbo; *University of Johannesburg, Town and Regional Planning*; Johannesburg, South Africa

### **Examining the Effectiveness of City of Johannesburg's Policy and Legislative Frameworks in Inform Development and Operation of Integrated Public Transport Systems** (reviewed paper)

Brightnes Risimati; *University of Johannesburg, Quality and Operations Management*; Johannesburg, South Africa

Trynos Gumbo; *University of Johannesburg, Town and Regional Planning*; Johannesburg, South Africa

### **Identifying the Possibilities of Integrating Speed Train and the Bus Rapid Transit System through Mobile Payment and Information Dissemination** (reviewed paper)

Siphiwe Mbatha; *University of Johannesburg, Quality and Operations Management*; Johannesburg, South Africa

Trynos Gumbo; *University of Johannesburg, Town and Regional Planning*; Johannesburg, South Africa

### **Linking Urban Regeneration to Sustainable Urban Development of Smart Cities** (reviewed paper)

Mai Abdo; *Faculty of Engineering-Alexandria University, Architectural Department-Urban Design*; Alexandria, Egypt

Hassan Abdel-Salam; Alexandria, Egypt

Hany Ayad; Alexandria, Egypt

Dina Taha; Alexandria, Egypt

### **Mapping the Spatial Integration of Motorised and Non-Motorised Transport Infrastructures: a Case Study of the City of Johannesburg** (reviewed paper)

Brightnes Risimati; *University of Johannesburg, Department of Operations Management*; Johannesburg, South Africa

Trynos Gumbo; *University of Johannesburg, Town and Regional Planning*; Johannesburg, South Africa





## **New Assessment Method for Buildings and Districts towards “Net Zero Energy Buildings” Compatible with the Energy Scenario 2050 (reviewed paper)**

Simon Schneider; Wien, AT

Nadja Bartlmä; *IBR & I Institute of Building Research & Innovation ZT GmbH*; Wien, AT

Jens Leibold; *FH Technikum Wien*; Wien, AT

Petra Schöfmann; *UIV Urban Innovation Vienna GmbH*, Operngasse 17-21; Wien, AT

Momir Tabakovic; *FH Technikum Wien*; Wien, AT

Thomas Zelger; *FH Technikum Wien*; Wien, AT

## **Smart Saint Petersburg Concept to Contribute to the Inclusion, Quality of Life and Citizens' Satisfaction (reviewed paper)**

Irina A. Shmeleva; *National Research University ITMO, Institute of Design and Urban Studies*; Saint Petersburg, Russia

Sergey Mityagin; *National Research University ITMO, Institute of Design and Urban Studies*; Saint Petersburg, Russia

Sergey Drojžin; *National Research University ITMO, Institute of Design and Urban Studies*; Saint Petersburg, Russia

## **The Potential of Using Volunteered Locational Data in Planning for Smart Multi-Mobility Systems (reviewed paper)**

Themban Moyo; *University of Johannesburg, Quality and Operations Management*; Johannesburg, South Africa

Walter Musakwa; *University of Johannesburg, Town and Regional Planning*; Johannesburg, South Africa

Trynos Gumbo; *University of Johannesburg, Town and Regional Planning*; Johannesburg, South Africa

## **CRISALIDE – City Replicable & Integrated Smart Actions Leading Innovation to Develop Urban Economies**

Sergey Trukhachev; *Southern Urban Planning Center*; Rostov-on-Don, Russia

Elena Batunova; *Southern Urban Planning Center*; Rostov-on-Don, Russia

Pietro Elisei; *Urbasofia*; Bucharest, Romania

Vasily V. Popovich; *SPIIRAS HTR&DO Ltd.*; St. Petersburg, Russia

Vasile Meita; *National Institute for Research and Development in Constructions, Urban Planning and Sustainable Spatial Development (URBAN-INCERC)*; Bucharest, Romania

Manfred Schrenk; *CORP – Consulting Research Projects*; Schwechat, AT

## **Tunnel und unterirdische Infrastruktur – unabdingbar für das Funktionieren von Städten und Regionen [Arbeitstitel]**

Frank Scharrenbach; *NET – New Environmental Technology*; Mannheim, DE

## **Real Smart Cities – High Tech and High Quality of Life: sectoral approaches**

### **Innovation in Mobilitätssharing – Einsatz von partizipativen Methoden (reviewed paper)**

Linda Dörrzapf; *Technische Universität Wien, Institut für Raumplanung*; Wien, AT

Vanessa Sodl; *Technische Universität Wien, Institut für Raumplanung*; Wien, AT

### **Preferences for Carsharing-Facilitated Neighbourhoods: a Latent-Class Model (reviewed paper)**

Juan Wang; *Eindhoven University of Technology, Built Environment*; Eindhoven, NL

Gamze Dane; *Eindhoven University of Technology, Built Environment*; Eindhoven, NL

Harry Timmermans; *Eindhoven University of Technology, Built Environment*; Eindhoven, NL







## **Smart Autonomous Shading Systems: An Approach towards Smarter Environments through Acknowledging the Materials Performative Capacities** (reviewed paper)

Samar ElTahhan; *Alexandria University, Faculty of Engineering, Department of Architecture; Alexandria, Egypt*  
Tarek Farghaly; *Alexandria University, Faculty of Engineering, Department of Architecture; Alexandria, Egypt*  
Hassan Abdelsalam; *Alexandria University, Faculty of Engineering, Department of Architecture; Alexandria, Egypt*

## **Smart Mobility: Technologies and Daily Routines** (reviewed paper)

Carolin Schroeder; *TU Berlin, Zentrum Technik & Gesellschaft; Berlin, DE*  
Gabriele Wendorf; *TU Berlin, Zentrum Technik & Gesellschaft; Berlin, DE*

## **The Development Trend of Smart City and its Enlightenment** (reviewed paper)

Xiaoying Ding; *Tianjin University; Tianjin, China*  
Yukun Zhang; *Tianjin University; Tianjin, China*

## **Urban Logistics Micro Hubs: Standardisation Meets Uniqueness** (reviewed paper)

Reinhold Schodl; *UAS BFI Vienna; Vienna, AT*  
Sandra Eitler; *UAS BFI Vienna; Vienna, AT*  
Bernhard Ennser; *UAS BFI Vienna; Vienna, AT*

## **Smart Parking Policy in Varna, Bulgaria**

Lucia Ilieva; *CSDCS, GM; Sofia, Bulgaria*

## **Real Smart Cities – High Tech and High Quality of Life: governmental vs. industrial vs. civil society driven approaches**

### **Complexity, Governance and the Smart City** (reviewed paper)

Domenico Camarda; *Polytechnic University of Bari; Bari, Italy*

### **Smart City Governance in Practice – the Example of mySMARTLife Project in Hamburg** (reviewed paper)

Katharina Lange; *HafenCity Universität Hamburg, Fachgebiet Stadtplanung und Regionalentwicklung; Hamburg, DE*  
Jörg Knieling; *HafenCity Universität Hamburg, Fachgebiet Stadtplanung und Regionalentwicklung; Hamburg, DE*

### **The Role of Cities and Communities in Shaping the Smart City Market** (reviewed paper)

Hans-Martin Neumann; *AIT Austrian Institute of Technology GmbH; Vienna, AT*  
Korinna Thielen; *Landeshauptstadt München, Referat für Stadtplanung und Bauordnung; München, DE*

### **The Smart City, Integrated Design and Planning and Urban Tech** (reviewed paper)

Iris Belle; *Tongji University, College of Architecture and Urban Planning; Shanghai, China*

### **The Willingness of Dutch Citizens to Participate in a Prosumer Community: A Stated Choice Experiment** (reviewed paper)

Gamze Dane; *Eindhoven University of Technology; Eindhoven, NL*  
Aloys Borgers; *Eindhoven University of Technology; Eindhoven, NL*  
Luc de Vet; *Eindhoven, NL*  
Wiet Mazairac; *Eindhoven, NL*





## Ghent – Innovative Strategic Urban Development

Agnieszka Zajac; Sogent; Ghent, Belgium

## Things hardly mentioned in “Smart Cities propaganda” – the “other side of the city”

### Activated Brownfield in Baghdad: Contaminated Site as a Model (reviewed paper)

Mays Hamdan; Al-Nahrain University, Architecture; Baghdad, Iraq  
Shaimaa Hussein; Al-Nahrain university, Architecture; Baghdad, Iraq

### Incongruities of a Socialistic Smart City: a Case of Area Based Development in T. T. Nagar, Bhopal (reviewed paper)

Akhilesh Singh Shisodia; School of Planning and Architecture, Bhopal, Urban Planning; Bhopal, India  
Ananya Sharma ; School of Planning and Architecture, Bhopal, Architecture; Bhopal, India

### Lifestyles, New Uses, and the Redevelopment of Industrial Heritage Sites: A Case Study of Strijp-S, Eindhoven (reviewed paper)

Gamze Dane; Eindhoven University of Technology; Eindhoven, NL  
Aloys Borgers; Eindhoven University of Technology; Eindhoven, NL  
Femke Tilma; Eindhoven University of Technology; Eindhoven, NL

### Siedlungsgebundene Unterflur-Überwärmung und deren Risikopotenzial für Infrastruktur und Gesundheit (reviewed paper)

Sascha Henninger; Technische Universität Kaiserslautern, Physische Geographie; Kaiserslautern, DE  
Martin Fabisch; Technische Universität Kaiserslautern, Physische Geographie; Kaiserslautern, DE

### Smarting Informal Settlements and Slums: a Mirage or a Reality?

Carin Fianu; Kwame Nkrumah University of Science and Technology, Department of Architecture; Kumasi, Ghana  
Alexander Boakye Marful; Kwame Nkrumah University of Science and Technology, Department of Architecture; Kumasi, Ghana

## How do we decode the context of a city and can we measure or describe people's perceptions?

### Decoding Cities to Model, Assess and Redesign them as Complex Urban Systems (reviewed paper)

Nicholas Patorniti; Sippy Downs, Australia  
Nicholas Stevens; Sippy Downs, Australia

### EmoCycling – individuelles Sicherheitsempfinden von Radfahrenden in Karlsruhe (reviewed paper)

Ida Rockenbach; Universität Hamburg, Sozialökonomie; Hamburg, DE  
Clotilde Minster; KIT, Institut für Verkehrswesen IfW; Karlsruhe, DE  
Peter Zeile; KIT, Institut für Entwerfen von Stadt und Landschaft IESL | Stadtquartiersplanung STQP; Karlsruhe, DE





## **Flood Risk Evolution and Risk Perception under Levee Effect** (reviewed paper)

Hsueh-Sheng Chang; *National Cheng Kung University, Urban Planning; Tainan, Taiwan*  
Min-Chun Hsu; *National Cheng Kung University, Urban Planning; Tainan, Taiwan*

## **From Festivalization of Public Space to the Right to Public Space: Deconstructing Social Infrastructure as a Conceptual Framework for the Town Hall Square in Vienna** (reviewed paper)

Astrid Krisch; *TU Wien, Department for Spatial Planning, Centre for Finance and Infrastructure Policy; Wien, AT*  
Karin Hiltgartner; *TU Wien, Department for Spatial Planning, Centre for Finance and Infrastructure Policy; Wien, AT*

## **Isovist and Psycho-Physiological Stress at the Pedestrian Level: A Real-Time Measurement Case Study in a High-Density City** (reviewed paper)

Luyao Xiang; *Hong Kong, China*  
Georgios Papastefanou; *Mannheim, DE*

## **Mapping Mobility of Women and Gendered Spaces in the City: a Case of a Neighbourhood in Delhi** (reviewed paper)

Aparajita Santra; *Howrah, India*

## **Potenziale von Open Data in der Stadtentwicklung – eine Rekonstruktion sozialer Milieus aus öffentlichen Datenbeständen** (reviewed paper)

Marvin Guth; *Hochschule Bochum, Fachbereich Geodäsie; Bochum, DE*  
Alexandra Lindner; *Hochschule Bochum, Dezernat Forschungsförderung; Bochum, DE*

## **Probing the Potentiality of ICT in Participatory Urban Planning** (reviewed paper)

Seyed Taher Khalilnezhad; *Kaiserslautern, DE*

## **Road Safety from Cyclist's Perspective** (reviewed paper)

Magdalena Schmidkunz; *Weihenstephan-Triesdorf University of Applied Sciences, Department of Landscape Architecture; Freising, DE*  
Olaf Schroth; *Weihenstephan-Triesdorf University of Applied Sciences, Department of Landscape Architecture; Freising, DE*  
Peter Zeile; *KIT, Institute for Urban and Landscape Design | STQP; Karlsruhe, DE*  
Ulrich Kias; *Weihenstephan-Triesdorf University of Applied Sciences, Department of Landscape Architecture; Freising, DE*

## **Walk & Feel – a New Integrated Walkability Research Approach** (reviewed paper)

Linda Dörrzapf; *Technische Universität Wien, Department für Raumplanung; Wien, AT*  
Peter Zeile; *Karlsruher Institute of Technology, Faculty of Architecture; Karlsruhe, DE*  
Ulrike Brocza; *PRISMA solutions EDV-Dienstleistungen GmbH; Mödling, AT*  
Yannik Schwomma; *PRISMA solutions EDV-Dienstleistungen GmbH; Mödling, AT*  
Bernd Resch; *Department of Geoinformatics – Z\_GIS, University of Salzburg; Salzburg, AT*  
Anna Kovács-Győri; *Department of Geoinformatics – Z\_GIS, University of Salzburg; Salzburg, AT*  
Martin Berger; *Technische Universität Wien, Department für Raumplanung; Wien, AT*

## **Using Co-Creation Methods to Solve Mobility Problems in Brussels**

Jesse Pappers; *Vrije Universiteit Brussel (VUB), Mobility, Logistics and Automotive Technology Research Centre (MOBI); Brussels, Belgium*  
Imre Keserü; *Vrije Universiteit Brussel (VUB), Mobility, Logistics and Automotive Technology Research Centre (MOBI); Brussels, Belgium*  
Cathy Macharis; *Vrije Universiteit Brussel (VUB), Mobility, Logistics and Automotive Technology Research Centre (MOBI); Brussels, Belgium*





## Feel-Good Places – how to create, how to maintain?

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Mona Maria; *Alexandria University, Architecture; Cairo, Egypt*  
Hany Ayad; *Alexandria University, Achitecture; Cairo, Egypt*  
Rania Raslan; *Alexandria University, Architecture; Cairo, Egypt*  
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Lucas Paletta; *JOANNEUM RESEARCH Forschungsgesellschaft mbH, Institute DIGITAL; Graz, AT*

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Maral Abolghasemi Moghaddam; *TU Kaiserslautern, Physische Geographie; Kaiserslautern, DE*  
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Khydija Wakil; *National University of Sciences and Technology, urban and Regional Planning; Islamabad, Pakistan*  
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Muhammad Jamal Thaheem; *National University of Sciences and Technology, National Institute of Transportation; Islamabad, Pakistan*  
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Tanja Toetzer; *AIT Austrian Institute of Technology, Sustainable Buildings and Clties; Wien, AT*  
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## Acoustic Quality and Health in Urban Environments – The SALVE Project

Susanne Moebus; *Institute for Medical Informatics Biometry and Epidemiology, Center for Urban Epidemiology; Essen, DE*  
Robynne Sutcliffe; *Institute for Medical Informatics Biometry and Epidemiology, Center for Urban Epidemiology; Essen, DE*  
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Dietwald Gruehn; *TU Dortmund, Department of Landscape Ecology and Landscape Planning; Dortmund, DE*

## Future Generation Cities: Open-Ended and Human Friendly

Aleksandr Izarov; *KVV, Architect Team; Kyiv, Ukraine*

## City OF things or city FOR people?

### City OF Things or City FOR People? (reviewed paper)

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Li Fan; *Universität Kassel; Berlin, DE*  
Uwe Altröck; *Universität Kassel; Kassel, DE*

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Sarah Westhoff; *Hochschule Bochum, Fachbereich Geodäsie; Bochum, DE*  
Alexandra Lindner; *Hochschule Bochum, Dezernat Forschungsförderung; Bochum, DE*

### Exploring Barrier-Free as a Catalyst to Smart Cities Initiatives in Sub Saharan Africa

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Daniel Duah; *Kwame Nkrumah University of Science and Technology, Architecture; Kumasi, Ghana*

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Hend Yassin; *Alexandria University, Architecture Department; Alexandria, Egypt*





## **Neighbourhood Walkability Assessment in Tianjin, China: Needs to be Analyzed from a Complex System Perspective**

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Vadim Belyaev; *ITMO, IDU; Saint-Petersburg, Russia*

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Atanu Chatterjee; *Xavier University, Xavier centre for urban management and governance; Bhubaneswar, India*

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Martin Berchtold; *Technische Universität Kaiserslautern, Fachbereich Raumplanung, dvmP; Kaiserslautern, DE*

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Evelyn Lobsiger-Kägi; *ZHAW Zurich University of Applied Sciences, Institute of Sustainable Development; Winterthur, CH*  
Vicente Carabias; *ZHAW Zurich University of Applied Sciences, Institute of Sustainable Development; Winterthur, CH*  
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Melanie Riester; *Karlsruhe Institut für Technologie (KIT), Institut für Automation und angewandte Informatik (IAI)*; Eggenstein-Leopoldshafen, DE

Andreas Geiger; *Karlsruhe Institut für Technologie (KIT), Institut für Automation und angewandte Informatik (IAI)*; Eggenstein-Leopoldshafen, DE

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Oksana Smirnova; *SPIIRAS - Hi Tech Research and Development Office Ltd.*; St.Petersburg, Russia

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Thorsten Kelm; *Hochschule Bochum, Fachbereich Geodäsie*; Bochum, DE

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Nathalie Pitz; *Hochschule Bochum, Fachbereich Geodäsie*; Bochum, DE

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## **The Politics of Digitized Boundaries in Vhembe District Municipality of South Africa** (reviewed paper)

Emaculate Ingwani; *University of Venda, Urban and Regional Planning*; Thohoyandou, South Africa

Rendani Musetha; *University of Venda, Urban and Regional Planning*; Thohoyandou, South Africa

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Peter Zeile; *KIT, Architecture | STQP*; Karlsruhe, DE

Ivonne Zelling; *Architecture | Building Lifecycle Management*; Karlsruhe, DE





## **BauPrevent – ein Ansatz zur digitalen und sensorgestützte Präventionsassistentz im Bauhandwerk**

Jan-Philipp Exner; *AWS-Institut für digitale Produkte und Prozesse gGmbH*; Saarbrücken, DE  
Maximilian Derouet; *AWS-Institut für digitale Produkte und Prozesse gGmbH*; Saarbrücken, DE  
Dirk Werth; *AWS-Institut für digitale Produkte und Prozesse gGmbH*; Saarbrücken, DE

## **BERiDE: a Collaborative and Participatory Platform for Jakarta Smart City**

Raja Tarigan; *Indonesian Association of Urban and Regional Planners (IAP), Secretary General of Jakarta Chapter*; Jakarta, Indonesia  
Arszandi Pratama ; *PT Beride Karya Indonesia, Co Owner*; Jaksel, Indonesia

## **Erhöhung von Bürgerpartizipation in der smarten Stadtentwicklung durch Einsatz von Virtual Reality**

Mirjam West; *ZHAW Zürcher Hochschule für Angewandte Wissenschaften, School of Engineering*; Winterthur, CH  
Onur Yildirim; *ZHAW Zürcher Hochschule für Angewandte Wissenschaften, School of Engineering*; Winterthur, CH

## **Smart Governance – Werkzeuge für integrierte Prozesse im Verkehrsmanagement**

Stefan Kollarits; *PRISMA solutions*; Mödling, AT  
Andreas Köglmaier; *PTV Group*; Karlsruhe, DE  
Thomas Epp; *PTV Group*; Wien, AT  
Katharina Grundei; *PRISMA solutions*; Mödling, AT

## **The Role of ICT in Mapping Resources for Sustainable Historic Urban Regeneration: Case Studies of Amsterdam and Salerno**

Lu Lu; *Eindhoven University of Technology*; Eindhoven, NL  
Nadia Pintossi; *Eindhoven University of Technology*; Eindhoven, NL  
Gamze Dane; *Eindhoven University of Technology*; Eindhoven, NL

## **Digitisation trends in urban planning – sources of information**

### **Usability of Open Data for Smart City Applications – evaluation of data, development of application and creation of visual dashboards (reviewed paper)**

Stephan Lehmler; *EIFER*; Karlsruhe, DE  
Syed Monjur Murshed; *EIFER*; Karlsruhe, DE  
Louise Ansart; *CentraleSupélec*; Gif-sur-Yvette, France  
Yao Shen; *KIT*; Karlsruhe, DE

### **Monitoring der Siedlungsstruktur – Methodik und Ergebnisse für Deutschland**

Gotthard Meinel; , *Forschungsbereich Monitoring der Siedlungs- und Freiraumentwicklung*; Dresden, DE

### **Nachhaltigkeitsindikatoren für die stadregionale Entwicklung**

Dominik Weiß; *Universität Bonn, Professur Städtebau und Bodenordnung*; Bonn, DE  
Frauke Rehorst; Bonn, DE  
Theo Kötter; Bonn, DE  
Mirko Blinn; Bonn, DE





## Digitisation trends in urban planning – accessibility of information and data

### **Entwicklung eines Planungs- und Entscheidungsunterstützungssystems als Baustein für Smart Regions** (reviewed paper)

Matthias Henning; Hochschule Anhalt; Bernburg, DE  
Matthias Pietsch; Hochschule Anhalt; Bernburg, DE  
Jana Schlaugat; Prof. Hellriegel Institut e.V.; Bernburg, DE

### **ESPRESSO – systemic Standardisation approach to Empower Smart cities and communities** (reviewed paper)

Martin Fabisch; Technische Universität Kaiserslautern, Physische Geographie; Kaiserslautern, DE  
Sascha Henninger; Technische Universität Kaiserslautern, Physische Geographie; Kaiserslautern, DE

### **Heidelberg Hbf – BIM-Pilot: Weiterentwicklung Empfangsgebäude im städtischen Kontext** (reviewed paper)

Jens Aesche; DB Station&Service AG, DB Station&Service AG; Berlin, DE  
Julian Prifti; DB Station&Service AG, DB Station&Service AG; Berlin, DE

### **Structuring Spatial Planning Data Repository for Smart Urban Planning** (reviewed paper)

Aurobindo Ogra; University of Johannesburg, Town and Regional Planning; Johannesburg, South Africa

### **Centropemap (working title)**

Clemens Beyer; CORP – Consulting Research Projects; Vienna, AT  
Manfred Schrenk; CORP – Consulting Research Projects; Vienna, AT

## What about the countryside? Smart villages, rethinking rural space, ...

### **A Geo-Spatial Information Model for Rural Planning** (reviewed paper)

Arpita Banerjee; School of Planning and Architecture, Physical Planning; New Delhi, India  
Mahavir ; School of Planning and Architecture, Physical Planning; New Delhi, India  
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### **Die Zukunft liegt im ländlichen Raum!** (reviewed paper)

Jeff Mirkes; Karlsruher Institut für Technologie, Stadtquartiersplanung (STQP); Karlsruhe, DE  
Markus Neppl; Karlsruher Institut für Technologie, Stadtquartiersplanung (STQP); Karlsruhe, DE  
Peter Zeile; Karlsruher Institut für Technologie, Stadtquartiersplanung (STQP); Karlsruhe, DE

### **Fablabbing the Cherrycake – über die Baukultur des ländlichen Raumes im digitalen Zeitalter** (reviewed paper)

Matthias Stippich; Karlsruher Institut für Technologie, Stadtquartiersplanung; Karlsruhe, DE





## **Potenziale für den Einsatz gemeinschaftlich genutzter autonomer Fahrzeuge im ländlichen Raum** (reviewed paper)

Roman Klementsitz; *Universität für Bodenkultur, Institut für Verkehrswesen; Wien, AT*

Tobias Haider; *mobyome; Wien, AT*

Maria Angerer; *Institut für partizipative Sozialforschung; Wien, AT*

Philipp Haydn; *mobyome; Wien, AT*

Alfons Bauernfeind; *Institut für partizipative Sozialforschung; Wien, AT*

## **Smart Participatory Village Planning Approach for Transformation of Country-Side Village Community under the Influence of Smart Hi-tech City** (reviewed paper)

Papiya Raut; *School of Planning and Architecture, Physical Planning Department; New Delhi, India*

Sandeep Kumar Raut; *Town and Country Planning Organisation, Environmental Planning Division; New Delhi, India*

Vivek Kumar; *Indian Institute of Technology Delhi, Center for Rural Development and Technology; New Delhi, India*

## **Systemische Vernetzung urbaner und ländlicher Räume – Erkennen, Formulieren, Entwerfen** (reviewed paper)

Katharina Graf; *KIT, Fachgebiet Building Lifecycle Management; Karlsruhe, DE*

## **The Development of an E-Participation Platform for Rural Areas in the Study Area of Niedernhall** (reviewed paper)

Patrick Würstle; *Hochschule für Technik Stuttgart, Faculty for Geomatics, Computer Science and Mathematics; Stuttgart, DE*

Thunyathep Santhanavanich; *Hochschule für Technik Stuttgart, Faculty for Geomatics, Computer Science and Mathematics; Stuttgart, DE*

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