

REAL CORP 2024

ACCEPTED ABSTRACTS

29th International Conference on Urban Planning and Regional Development in the Information Society
GeoMultimedia 2024



Metropolregion
Rhein-Neckar

KEEP ON PLANNING FOR THE REAL WORLD

Climate Change calls for
Nature Based Solutions and Smart Technologies


KEEP ON PLANNING FOR THE REAL WORLD CLIMATE CHANGE CALLS FOR NATURE-BASED SOLUTIONS AND SMART TECHNOLOGIES

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 HOCHSCHULE DER WIRTSCHAFT
FÜR MANAGEMENT
UNIVERSITY OF APPLIED
MANAGEMENT STUDIES

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Smart Industries

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 **ISOCARP**
Knowledge for Better Cities

 **WORLD
CODE1**


Metropolregion
Rhein-Neckar

15-17 APRIL 2024
JOHN DEERE FORUM
JOHN-DEERE-STRASSE 70, 68163 MANNHEIM, GERMANY

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REAL CORP 2024

Since the beginning of industrialisation, the concentration of greenhouse gases in the atmosphere has been steadily increasing due to human influences. Currently, an increase of greenhouse gases in the atmosphere of almost 50 percent compared to the level of pre-industrialisation has been recorded. Without taking into account the increase in greenhouse gases in the atmosphere, the observed warming of the climate system cannot be explained. The problem of climate change is therefore caused by humanity itself and can therefore be counteracted by humanity itself.

It is, therefore, all the more important to take selective countermeasures wherever possible. If measures against climate change are combined with modern technologies, additional short-term effects can be achieved, such as an increase in the (urban) quality of life, a mitigation of traffic problems or savings through reduced resource consumption. These and other aspects can be achieved under the umbrella of the Smart City, and Mannheim has decided to become a Smart City and is on a successful way: as the first German city, Mannheim received the #EUMissionLabel as part of the “100 climate neutral and smart cities by 2030” programme by the EU Commission.

But what does this step mean for the citizens on the one hand, and for planning and administration on the other? Smart Cities use the potential of digital technologies and intelligent data networks to increase the quality of life simultaneously moving into the future in a resource-saving and efficient way.

Smart cities collect vast amounts of data, which can be used to inform policy making and city planning leading to more effective urban and regional governance. Also the economic aspect must be considered as Smart Cities can attract investments and businesses, creating job opportunities and stimulating economic growth. They can also foster innovation and entrepreneurship through technology hubs and incubators. This contributes to the development of services by delivering public services more efficiently, such as healthcare, education, and public safety. This enhances the overall well-being of residents and can contribute to social development.

Clustering promotes progress, and Mannheim has been leading the way in this area for some time. With the initiation of the Network Smart Production, Mannheim has created an innovation platform. Industry, research and solution providers are brought together and can initiate a variety of B2B and funded applied research projects. The combination of a strong production location and a strong green tech location makes Mannheim a hotspot of the green and smart industry. Last but not least, Mannheim's Smart City movement is strongly supported by a university landscape with a network of co-operating universities with diverse and interdisciplinary research focus.

REAL CORP conferences are held annually since 1996. Some hundred experts from around the world from the fields of urban planning, smart cities, mobility and transport planning, information and communication technologies, architecture, social and environmental sciences, real estate, GIS, surveying and remote sensing and more meet to discuss the latest tasks and topics on urban planning, regional development and information society in an international and extremely interdisciplinary conference.

Between 150 and 180 expert lectures, presentations, round table discussions, workshops and small exhibitions are offered on the conference days, composed by a traditional extensive social programme with informal welcome, evening reception, tours to companies or to implemented urban solutions in the region etc.

REAL CORP 2024 HOST CITY MANNHEIM

Experience history, culture and culinary delights

Mannheim, the vibrant city on the Rhine and Neckar, is cosmopolitan, colourful and diverse - you can look forward to baroque sights and art nouveau alongside beautiful parks, top-class culture and festivals, and a shopping and gastronomic paradise that is unique in south-west Germany.

11 special locations

Sights



Explore the squared city in all its diversity

Mannheim has perfect transport connections – the city in south-west Germany can be reached by train from German and European cities in just a few hours. The connection to five motorways ensures an uncomplicated journey by car. In Mannheim itself, you can leave your car behind and take the tram anywhere you want. The Tourist Information team will be happy to help you with any questions you may have about your stay.

A short visit to Mannheim

Green city, digitisation

Mannheim is a hotbed of talent and a start-up scene, a city of inventions and innovations, a university city and much more - Stadtmarketing Mannheim GmbH and various initiatives are working on the continuous and sustainable development of Mannheim. A multitude of different projects bear witness to this.

Monnem Bike

Bundesgartenschau 2023

Text and photos courtesy of <https://www.visit-mannheim.de/>

WELCOME AND KEYNOTES

WELCOME AND INTRODUCTION

Christian SPECHT, *Mayor of the City of Mannheim, Germany*

Perizat DAGLIOGLU, *President of University of Applied Management Studies Mannheim, Germany*

Angelika ALTMANN-DIESES, *Rector of Hochschule Mannheim – University of Applied Sciences; Mannheim, Germany*

Hans-Rüdiger KAUFMANN, *University of Applied Management Studies Mannheim, Germany*

Pietro ELISEI, *President ISOCARP – International Society of City and Regional Planners; The Hague, NL*

Manfred SCHRENK, *Chairman CORP, Conference Director; Vienna, Austria*

KEYNOTES

Ali A. ALRAOUF, *Ministry of Municipality and Environment, Qatar*
**From Barrel to Pixel: Deconstructing Knowledge-Based Urban Development
in Gulf Cities Beyond Carbon Paradigm**

Dhiru A. THADANI, *Thadani Architects + Urbanists; Washington DC, USA*
Urban Controversies – Traditional Planning Principles versus Modern Practise

Thomas PEUNTNER, *Global HR Director at John Deere; Mannheim, Germany*
Smart Farming

Der-Horng LEE, *Zhejiang University; Zhejiang, China (solicited)*
Singapore's Urban Planning and Mobility Development

Stefan RAU, *Asian Development Bank, Sectors Group, Water and Urban Development; Beijing, China
(solicited)*

Christian SCHACHTNER, *RheinMain University of Applied Sciences; Wiesbaden, Germany*
Marvin BALDAUF, *Metropolitan Region Rhine-Neckar; Mannheim, Germany*
**The Discrepancy between Aspiration and Reality: How do we Design Intelligent Cities
and Regions of the Future in a Skills-orientated Way through Networked Working?**

Beniamino MURGANTE, *University of Basilicata, School of Engineering; Potenza, Italy*
Exploring New Paradigms in Urban Sustainability: The 15-Minute City

REAL CORP 2024 TIMELINE (MAY BE SUBJECT TO CHANGES)

Day 0 – Sunday, 14 April 2024 at MAFINEX

10:00-17:00 Exhibition, Business Talk and Smart City Citizen Info Day at
MAFINEX Technology Centre for Start-ups, Julius-Hatry-Straße 1, 681 63 Mannheim, Germany
~18:00 Informal REAL CORP 2024 Welcome Reception, Ice Breaking*

Day 1 – Monday, 15 April 2024 at John Deere Forum

08:00-09:00 Arrival, registration
09:00-10:30 Conference Opening
10:30-11:00 Coffee Break
11:00-13:00 Keynotes
13:00-14:00 Lunch Break
14:00-16:00 Keynotes
16:00-16:30 Coffee break
16:30-18:00 Presentations and Workshops, Parallel Sessions

Day 2 – Tuesday, 16 April 2024 at John Deere Forum

09:00-10:30 Presentations and Workshops, Parallel Sessions
10:30-11:00 Coffee break
11:00-12:30 Presentations and Workshops, Parallel Sessions
12:30-13:30 Lunch break
13:30-14:30 Round Table Discussion: Universities as Transformation Drivers in Sustainability Networks
14:30-16:00 Presentations and Workshops, Parallel Sessions
16:00-16:30 Coffee Break
16:30-18:00 Presentations and Workshops, Parallel Sessions
afterwards REAL CORP 2024 Evening Reception

Day 3 – Wednesday, 17 April 2024 at John Deere Forum

09:30-11:00 Presentations and Workshops, Parallel Sessions
11:00-11:30 Coffee break
11:30-13:00 Presentations and Workshops, Parallel Sessions
13:00-14:00 Lunch break
14:00-15:30 Presentations and Workshops, Parallel Sessions
afterwards REAL CORP 2024 Closing, informal farewell reception

*) participants will be asked to sign up via MY.CORP (detailed information is going to be sent via e-mail).
Timeline may be subject to changes.

CONFERENCE REGISTRATION

To register for REAL CORP 2024, please visit our website www.corp.at or go directly to our registration portal <https://my.corp.at>

ACCEPTED ABSTRACTS (DRAFT VERSION AS OF FEBRUARY 2024)

Contributions of Urban and Spatial Planning to Tackle the Big Challenges of the Future

Alternative Agendas for Urban Planning and Governance in Post-Colonial Africa (reviewed paper)

Geoffrey Nwaka; *Abia State University, Uturu, Nigeria, History and International Relations; Uturu, Nigeria*

An Integrative Review of Spatial Constraints in Historically Marginalised Enclaves of South Africa (reviewed paper)

Shylet Nyamwanza; *University of Venda, University of Venda; Thohoyandou, South Africa*
James Chakwizira; *University of Venda, Urban and Regional Planning; Thohoyandou, South Africa*
Michelle Beattie; *University of Highlands and Islands, UHI Department of Nursing and Midwifery; Inverness, Scotland*
Emmaculate Ingwani; *University of Venda, Urban and Regional Planning; Thohoyandou, South Africa*

Assessment of Residential Electricity Consumption and Renewable Energy Self-Sufficiency – a Case Study of Tainan, Taiwan (reviewed paper)

Yi-Hsuan Shen; *National Cheng Kung University, Department of Urban Planning; Tainan, Taiwan*
Hsueh-Sheng Chang; *National Cheng Kung University, Department of Urban Planning; Tainan, Taiwan*

Evaluating the Impact of Urbanisation on Climate Change: A Case of Kochi City, Kerala State, India (reviewed paper)

Adinarayanan Ramamurthy; *School of Planning and Architecture Vijayawada Government of India, Department of Planning; Vijayawada, India*
Faiz Ahmed Chundeli; *School of Planning and Architecture Vijayawada Government of India, Department of Architecture; Vijayawada, India*
Aswinth G Chandran; *School of Planning and Architecture Vijayawada Government of India, Department of Planning; Vijayawada, India*
Taruni Joshi; *School of Planning and Architecture Vijayawada Government of India, Department of Planning; Vijayawada, India*

Exploring Consumer Adoption of Electric Vehicles in Japan: an Empirical Study (reviewed paper)

Mitsunori Hirogaki; *Kyushu University, Graduate School of Economics; Fukuoka, Japan*

ISEK⁴ – A Regional Approach to Inner City Development (reviewed paper)

Petra Hirschler; *TU Wien, Institute of Spatial Planning; Vienna, AT*
Sibylla Zech; *TU Wien, Institute of Spatial Planning; Vienna, AT*
Martin Aufhauser; *TU Wien, Institute of Spatial Planning; Vienna, AT*
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Annalisa Mauri; *Institute of Urban Design and Landscape Architecture; Vienna, AT*
Malene Buchenberger; *TU Wien, Institute of Urban Design and Landscape Architecture; Vienna, AT*

The Implementation of Artificial Intelligence in Project Management (reviewed paper)

Christoph Sandbrink; *University of Applied Management Studies Mannheim, Hochschule der Wirtschaft für Management Mannheim; Bammental, DE*
Aditi Bharati; *University of Applied Management Studies Mannheim, Hochschule der Wirtschaft für Management Mannheim; Mannheim, DE*

CentropeMAP – statistische Zeitreihendaten einer grenzüberschreitenden Region

Clemens Beyer; *CORP – Competence Center of Urban and Regional Planning; Schwechat, AT*
Manfred Schrenk; *CORP – Competence Center of Urban and Regional Planning; Schwechat, AT*

Chronicles of Peri-Urban Expansion in Small Rural Towns: a Comprehensive Study of Makhado Biaba's Built-Up Areas from 1994 to 2022

Ngudo Winny Nthangeni; *University Of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa*
Trynos Gumbo; *University Of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa*
Emmaculate Ingwani; *University of Venda , Urban and Regional Planning; Thohoyandou, South Africa*
(Nils Ekelund; *Malmö University, Natural Sciences, Mathematics, Society; Malmö, Sweden*)

Investigating Urban Spatial Expansion and Infrastructure Provision Nexus in the City of Polokwane, South Africa

Karabo Mabyana; *University of Johannesburg, Urban and Regional Planning; Polokwane, South Africa*

ODD – Operational Design Domain as Test Arrangement for the Future Automatisisation of Road Traffic

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

Planning for Disaster Recovery: a Preliminary Assessment of the Role of Planning in Preventing Hazards Becoming Disasters

Martina Juvara; *URBAN Silence; London, UK*
Tijana Tufek Memisevic; *CANDARC; Chicago, USA*
Sebnem Hoskara; *Eastern Mediterranean University; Famagusta, Cyprus*
Zeynep Merey Enil; *Yildiz Technical University; Istanbul, Turkey*

Regionalisierung von Wohnungsmärkten anhand kleinräumiger Umzugsbewegungen in Deutschland

Lukas Tiemann; *BPD Immobilienentwicklung GmbH, Market Research; Frankfurt am Main, DE*

Restoring Ecosystem Services in Lagos Mainland by deploying the upsides of Green Infrastructure

John Adekunle Adesina; *University of Lagos, Faculty of Environmental Sciences; Lagos, Nigeria*
Nnezi Uduma-Olugu ; *University of Lagos, Faculty of Environmental Sciences; Lagos, Nigeria*
Michael Adebamowo ; *University of Lagos, Faculty of Environmental Sciences; Lagos, Nigeria*

Smart City in General: Use and Benefits of Smart City Strategies

Does City Smartness Improve Urban Environment and Reduce Income Disparity? Evidence from an Empirical Analysis of Major Cities Worldwide (reviewed paper)

Boris A. Portnov; *University of Haifa*; Haifa, Israel

Ein Ultraleichtflugzeug, Luftbilder, KI-Algorithmen und Geofach- und Geosachdaten – wie in Landsberg am Lech durch den Einsatz neuer Technologien ein digitaler Zwilling für die Stadt-, Klimaanpassungs- und Mobilitätsplanung aufgebaut wird (reviewed paper)

Daniel Broschart; *Stadt Landsberg am Lech, Digitaler Zwilling, Klimaschutz und Mobilität*; Landsberg am Lech, DE
Florian Siegert; *3D RealityMaps*; München, DE

Foundation for a Theoretical Framework on the Location of Manufacturing Firms in the Vicinity of Airports (reviewed paper)

Masilonyane Mokhele; *Cape Peninsula University of Technology, Urban and Regional Planning*; Cape Town, South Africa

Policy and Legislative Enabling Environment for Implementing Digital Technologies in the Local Government Sector: a Case Study of South Africa (reviewed paper)

Tlou Phillemon Mathane; *Pretoria, South Africa*
Trynos Gumbo; *University of Johannesburg, Urban and Regional Planning*; Johannesburg, South Africa
Eric Nyembezi Makoni; *University of Johannesburg, Urban and Regional Planning*; Johannesburg, South Africa

Smart Cities and Infrastructure Development: A Case Study of the Gauteng City Region in South Africa (reviewed paper)

Boy Johannes Mashabela; *Student at University of Johannesburg, Department of Urban and Regional Planning*; Doornfontein Johannesburg, South Africa
Jeffrey Mahachi; *University of Johannesburg, Faculty of Civil Engineering & The Built Environment*; Doornfontein Johannesburg, South Africa
Trynos Gumbo; *University of Johannesburg, Dept. of Urban and Regional Planning*; Doornfontein Johannesburg, South Africa

Smart Cities through Online Dating and Sustainability – Responsible Leadership in Smart Cities (reviewed paper)

Ursula Schinzel; *Luxembourg, Luxembourg*

Sustainable Smart City Planning: Suggestion of a Theoretical Strategic Model (reviewed paper)

Abbas Shieh; *Azad University, Urbanism*; Tehran, Iran

Sustainable, Smart and Humane Cities: From Utopia to Reality (reviewed paper)

Judith Ryser; *CityScope Europe*; London, UK
Teresa Franchini; *Temanova*; Madrid, Spain

Vereinbarkeit von ganzheitlich gedachter Ökologie und Ökonomie in einem Gewerbequartier (reviewed paper)

Arndt Brauckmann; *Brainergy Park Energie GmbH*; Jülich, DE

Beziehungen von Universitäten zu Städten und Gemeinden im Themenfeld Smart Cities

Fabian Sennkamp; *Zeppelin-Universität, Nachhaltigkeitsmanagement*; Friedrichshafen, DE

Human Behaviour in Africa: a Real Challenge Factor towards Building Smart Cities

Abderrahim Boualy; *Association Jeunesse Tamdoult - AJTCD-Maroc, CorpsAfrica Alumni Network Manager*; Agadir, UK

Smart Mobility: Enhancing Today's Mobility Systems for Tomorrow

A Comparative Analysis on the Impact of Culture, Norms and Attitudes on the Adoption of Eco-Friendly Transportation in Mannheim and Tokyo (reviewed paper)

Ernest Shamorine Boham; *Hochschule der Wirtschaft für Management Mannheim, M.A. Business Management*; Mannheim, DE
Hans Rüdiger Kaufmann; *Hochschule der Wirtschaft für Management Mannheim, M.A. Business Management (e)*; Mannheim, DE

An Impact Analysis of Autonomous Vehicles on Junction Delay: Case of Tehran (reviewed paper)

Amir Reza Mamdoohi; *Tarbiat Modares University*; Tehran, Iran
Ali Rahmani; *Tarbiat Modares University*; Tehran, Iran
Mahmud Saffarzadeh; *Tarbiat Modares University*; tehran, iran

Analysis of Digital Technological Applications in Public Transportation Systems Ticketing and Communications: Reviews of Singapore, Sydney, Cape Town and Lagos Experiences (reviewed paper)

Kiara Lawrence; *Durban University of Technology, Department of Town and Regional Planning*; Durban, South Africa
Trynos Gumbo; *University of Johannesburg, Department of Town and Regional Planning*; Johannesburg, South Africa
Godfrey Musvoto; *Durban University of Technology, Department of Town and Regional Planning*; Durban, South Africa

Bedarfsverkehr im ländlichen Raum zur Sicherung der letzten Meile, Analyse erfolgreicher Fallbeispiele aus dem Bundesland Salzburg (reviewed paper)

Roman Klementsitz; *Universität für Bodenkultur, Institut für verkehrswesen*; Wien, AT
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Gregor Husner; Wien, AT
Yusak Susilo; Wien, AT

Cruising in KL: Lokalisierung und Quantifizierung von Parksuchverkehr mittels Floating Car Data (reviewed paper)

Julia Mayer; *Deutsches Forschungszentrum für Künstliche Intelligenz (DFKI) GmbH, Smarte Daten und Wissensdienste*; Kaiserslautern, DE
Hossam Zaki; *RPTU Kaiserslautern-Landau, FB Informatik*; Kaiserslautern, DE

Decoding Stress – ein interdisziplinärer Analyseansatz zur Identifikation Stress auslösender Faktoren für den urbanen Rad- und Fußverkehr (reviewed paper)

Nina Haug; *Karlsruher Institut für Technologie (KIT), Stadtquartiersplanung*; Karlsruhe, DE
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Emotionen im Radverkehr messen, vergleichen und verstehen: Evaluation verschiedener Erhebungsansätze in der Stadt Osnabrück (reviewed paper)

Nina Haug; *Karlsruher Institut für Technologie (KIT), Stadtquartiersplanung*; Karlsruhe, DE
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Fostering Gender-Sensitive Mobility: Recommendations in the Context of Car Sharing

Linda Dörrzapf; *TU Vienna, Institute of spatial planning*; Wien, AT

GreenTwin: Developing a Digital Twin for Sustainable Cooperative Mobility and Logistics in Rural Areas (reviewed paper)

Ye Eun Bae; *Deutsches Forschungszentrum für Künstliche Intelligenz*; Trier, DE
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Partizipation und Planung der aktiven Mobilität: Der Einsatz von Cape Revisos Methodenkoffer am Beispiel Herrenbergs (reviewed paper)

Céline Schmidt-Hamburger; *Karlsruher Institute of Technology, STQP - Neighbourhoodplanning*; Karlsruhe, DE
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User Experiences on the Integration of Non-Motorised Transport in Public Transport Systems: a Case of the Harambee Bus Rapid Transit (reviewed paper)

Kiara Lawrence; *Durban University of Technology, Department of Town and Regional Planning*; Durban, South Africa
Trynos Gumbo; *University of Johannesburg, Department of Town and Regional Planning*; Johannesburg, South Africa
Godfrey Musvoto; *Durban University of Technology, Department of Town and Regional Planning*; Durban, South Africa

User Preferences for Mobility as a Service (MaaS) Implementation in Germany (reviewed paper)

Christoph Sandbrink; *University of Applied Management Studies Mannheim, Hochschule der Wirtschaft für Management Mannheim*; Bammmental, DE
Nara Karunasena; *University of Applied Management Studies Mannheim, Hochschule der Wirtschaft für Management Mannheim*; Mannheim, DE

Userbasiertes intermodales Routing

Kathrin Prinz; *RPTU*; Kaiserslautern, DE

Smart Resilience: How to Prepare our Cities for New Challenges

Employee Behaviour as a Possible Corporate System Vulnerability when Implementing Digitalisation in Smart Cities (reviewed paper)

Lara Sehlmeier; Mannheim, DE
Hans Rüdiger Kaufmann; HdWM; Mannheim, Germany

Evaluating The Effectiveness of Smart City Strategies in Enhancing Urban Resilience to Natural Disasters in Kinshasa (reviewed paper)

Tresor Katembo; City of Kinshasa, Urban Development Unit of Kinshasa; Kinshasa, Democratic Republic of Congo

Small-scale Production Sites as Part of Urban Resilience Infrastructure: The Intersections of Urban Planning and the Fab City (reviewed paper)

Kimberly Tatum; HafenCity University Hamburg, Institute for Urban Planning and Regional Development; Hamburg, DE
Jörg Knieling; HafenCity University Hamburg, Institute for Urban Planning and Regional Development; Hamburg, DE

Smart and Urban Tree – Built Climate Change Mitigation (reviewed paper)

Ulrich Pont; TU Wien, Research Unit of Building Physics and Building Ecology; Vienna, AT
Magdalena Wölzl; TU Wien, Research Unit of Building Physics and Building Ecology; Vienna, AT
Peter Schober; Holzforschung Austria; Wien, AT
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Vera Stiegler; Holzforschung Austria; Vienna, AT
Rupert Wolfthardt; Holzforschung Austria; Vienna, AT
Peter Bauer; TU Wien, Structural Design and Timber Engineering; Vienna, AT
Isabell Auer; Weatherpark; Wien, AT

Spatial Strategies for Economic Growth within “Net Zero Land Take” (reviewed paper)

Jan Zaman; Idea Consult, Real Estate and Territorial Development; Brussel, Belgium

The Current Use and Limitations of Water Related Digital Twins – a Practical View on Urban Climate Change Adaptation (reviewed paper)

Markus Groth; Climate Service Center Germany (GERICS) - Helmholtz-Zentrum hereon; Geesthacht, DE
Steffen Bender; Climate Service Center Germany (GERICS) - Helmholtz-Zentrum hereon; Geesthacht, DE
Thea Wübbelmann; Geesthacht, DE

The Rise of Stormwater Challenges – an Urban Response to Climatic Changes (reviewed paper)

Basiiraa Moosa; Johannesburg, South Africa

Applicability of Geo-Design in Modelling the Spatial and Structural Vulnerability Context of Informal Settlements in Smash-Block South Africa

Olindwaho Lithole; University of Johannesburg, Department of Urban and Regional Planning; Thabazimbi, South Africa
Trynos Gumbo; University of Johannesburg, Department of Urban and Regional Planning; Johannesburg, South Africa
Thembanani Moyo; University of Johannesburg, Department of Urban and Regional Planning; Johannesburg, South Africa

Developing a Technological Innovations Framework for Energy Security: a Case of City Power, Johannesburg

Nkosingizwile Mazwi Mchunu; University of Johannesburg, Department of Urban and Regional Planning; Johannesburg, South Africa
Trynos Gumbo; University of Johannesburg, Department of Urban and Regional Planning; Johannesburg, South Africa
George Onatu; University of Johannesburg, Department of Urban and Regional Planning; Johannesburg, South Africa

Smart Efficiency: On Responsible and Economical Use of Resources

Development of an Energy Transition Cycle in the City of Eisenstadt (reviewed paper)

Robert Pratter; *Award Energy Research GmbH*; Graz, AT
Philipp Novakovits; *Forschung Burgenland GmbH*; Eisenstadt, AT
Lukas Gnam; *Fachhochschule Burgenland GmbH*; Pinkafeld, AT
Werner Tschirk; *RAUMBild*; Mattersburg, AT

Evaluating the Potential of Vertical Farming Business Models for Sustainable Agriculture and Food Security in Cameroon (reviewed paper)

Edith Vefemsi Viki; *University of applied management studies*; Mannheim, DE
Hans Rüdiger Kaufmann; *University of applied management studies*; Mannheim, Germany

Exploring the Role of Smart Homes on Energy Security in South Africa: a Bibliometric Study (reviewed paper)

Nischolan Pillay; *Durban University of Technology, Department of Architecture*; Durban, South Africa
Kiara Lawrence; *Durban University of Technology, Town and Regional Planning*; Durban, South Africa

Regeneration of Urban Sites with Circular Economy Principles (reviewed paper)

Matthias Haase; *Waedenswil*, CH
Mihaela Meslec; *Waedenswil*, CH

Achieving Sustainability through Resources Design Efficiency Integration with Building Information Modelling

Eslam Hassan; *Alexandria University, Architecture*; Alexandria, Egypt

Grow with Corporate Sustainability: ESG-Regulierungen als nachhaltige Wachstumstreiber

Kim Hirsch; *osapiens*; Mannheim, DE

Mannheim 2030: CO₂-Neutral via Geothermal Energy

Georg Pins; *Stadt Mannheim, Abteilungsleiter Klimaschutz*; Mannheim, DE

Sustainable Concrete-Based Structures: Review for the Potential Benefits of Basalt Fiber Reinforced Concrete (BFRC) in Enhancing the Environmental Performance of Buildings

Nadine Albqour; *Alexandria University, Architecture Department*; Alexandria, Egypt
Mohammad Shehata; *Alexandria University, Architecture Department*; Alexandria, Egypt
Zeyad ElSayed; *Alexandria University, Architecture Department*; Alexandria, Egypt

Smart Technologies and Information Infrastructure

BIM and Carbon Emissions Nexus: A Way Forward for Reducing Carbon Emissions in the South African Construction Industry (reviewed paper)

Peter China Mashinini; *University of Johannesburg, Urban and Regional Planning; Edenvale, South Africa*
Trynos Gumbo; *University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa*
Jeffrey Mahachi; *University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa*

Digital Space of a Human: From Philosophy to Computer Science (reviewed paper)

Pietro Elisei; *ISOCARP, President – ExCom member; CA The Hague, The Netherlands*
Vasily Popovich; *IST BUREAU LLC.; St.Petersburg, Russia*
Manfred Schrenk; *CORP – Consulting Research Projects, Managing Director ; Vienna, AT*
Tatiana Popovich; *IST BUREAU LLC.; St.Petersburg, Russia*
Ivan Griaznykh; *IST BUREAU LLC.; St.Petersburg, Russia*

Investigating the Research Landscape of Virtual Reality in Built Environment Education on the African Continent: a Bibliometric Review (reviewed paper)

Nischolan Pillay; *Durban University of Technology, Department of Architecture; Durban, South Africa*
Kiara Lawrence; *Durban University of Technology, Department of Town and Regional Planning; Durban, South Africa*
Trynos Gumbo; *University of Johannesburg, Department of Urban and Regional Planning ; Johannesburg, South Africa*

Security and Compliance in Cloud Environments (reviewed paper)

Christoph Sandbrink; *University of Applied Management Studies Mannheim, Hochschule der Wirtschaft für Management Mannheim; Mannheim, DE*
Anmol Kumar; *University of Applied Management Studies Mannheim, Hochschule der Wirtschaft für Management Mannheim; Mannheim, DE*

Spatial Justice in the Distribution of Smart City Digital Technologies: Three Area-Based Case Studies of Free Municipal Wi-Fi in the City of Tshwane, South Africa (reviewed paper)

Tlou Phillemon Mathane; *Pretoria, South Africa*
Trynos Gumbo; *University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa*
Eric Nyembezi Makoni ; *University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa*

Sustainable Operation of Digital Infrastructure in the Smart City: Practical Experience and Implications (reviewed paper)

Jan-Philipp Exner; *ZENNER International GmbH & Co. KG, IoT & Digital Solutions; Saarbrücken, DE*
Patrick Andres; *ZENNER International GmbH & Co. KG, IoT & Digital Solutions; Saarbrücken, DE*

Synergizing BIM, Digital Twin, and XR: An Approach for Real-Time Building Analysis and Enhanced Laboratory Management (reviewed paper)

Joel Lehmann; *Hochschule Mannheim, CeMOS; Mannheim, DE*
Kevin Kastner; *Hochschule Mannheim, CeMOS; Mannheim, DE*
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Matthias Rädle; *Hochschule Mannheim, CeMOS; Mannheim, DE*
Julian Reichwald; *Hochschule Mannheim, CeMOS; Mannheim, DE*

The Role of Public-Private Partnerships in Smart City Development: A South African Perspective (reviewed paper)

Peter China Mashinini; *University of Johannesburg, Urban and Regional Planning; Edenvale, South Africa*
Gumbo Trynos; *University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa*
Jeffery Mahachi; *University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa*

The Use of Situated Visualized Data to Nudge Visitor's Paths: a Case Study at the Detmold Design Week 2023 (reviewed paper)

Mareile Licht; *Technische Hochschule Ostwestfalen-Lippe*; Detmold, DE
Amanda Barbosa Jardim; *Technische Hochschule Ostwestfalen-Lippe*; Detmold, DE
Maximilian Müh; *Technische Hochschule Ostwestfalen-Lippe*; Detmold, DE
Axel Häusler; *Technische Hochschule Ostwestfalen-Lippe*; Detmold, DE

Artificial Intelligence in Urban and Spatial Planning

Exploring Generative AI in Planning: A Scenario-Building Simulation for the Master Plan of Bari, Italy (reviewed paper)

Domenico Camarda; *Polytechnic University of Bari*; Bari, Italy
Mauro Patano; Bari, Italia

SMEXI – a Data-Based Approach for the Small-Scale Investigation of Sustainability Goals in Cities (reviewed paper)

Martin Memmel; *DFKI GmbH, Smart Data & Knowledge Services / Smart City Living Lab*; Kaiserslautern, DE
Akhir Yeerasam; Kaiserslautern, DE

Data and AI: Driving Force for the Future Smart Cities

Marvin Baldauf; *Global Shaper, World Economic Forum*; Mannheim, DE
Dhruv Aggarwal; *Global Shaper, World Economic Forum*; Mannheim, DE
Vivien Herget; *Global Shaper, World Economic Forum*; Mannheim, DE
Benedikt Gieger; *Founding Curator, World Economic Forum*; Mannheim, DE

Location Factors and Ecosystem Embedding of Sustainability-Engaged Blockchain Companies in the US. A Web-Based Analysis

Jan Kinne; *ISTARI.AI & ZEW & Harvard University*; Mannheim, DE
Robert Dehghan; *University of Mannheim & ISTARI.AI*; Mannheim, DE
Sebastian Schmidt; *University of Salzburg & ISTARI.AI*; Salzburg, AT
David Lenz; *ISTARI.AI*; Mannheim, DE
Hanna Hottenrott; *TUM & ZEW*; Mannheim, DE

How Nature-Based Solutions can be Used in Smart Cities and Urban Planning

A New Adaptation Strategy to Changing Local Climatic Conditions in Urban Areas? The Use of Leaf-Turning Tree Species (reviewed paper)

Sascha Henninger; *RPTU Kaiserslautern-Landau, Fachbereich Raum- und Umweltplanung, Physische Geographie*; Kaiserslautern, DE
Judith Geib; *RPTU Kaiserslautern-Landau, Fachbereich Raum- und Umweltplanung, Physische Geographie*; Kaiserslautern, DE

Climate Resilient Sponge Cities – Concepts and Tools to Integrate Green-Blue and Grey Systems (reviewed paper)

Stefan Rau; *Asian Development Bank, Sectors Group, Water and Urban Development*; Beijing, China

Melt Plates: The Abolition of the Barrack Climate through an Optimised Form of Latent Heat Storage (reviewed paper)

Frederik Wunder; *Hochschule Mannheim; Mannheim, DE*
Sebastian Sonnick; *Hochschule Mannheim; Mannheim, DE*
Thomas Walch; *Worldcode1; Mannheim, DE*
Matthias Rüdle; *Hochschule Mannheim; Mannheim, DE*
Hans Rüdiger Kaufmann; *Hochschule der Wirtschaft für Management Mannheim, M.A. Business Management*; Mannheim, DE

Resilience of Cities to Climate Change (reviewed paper)

Alaa Elkhateeb; *Alexandria university, Architecture Engineering*; Bassion, Cairo
Hany Ayad; *Alexandria university, Architecture Engineering*; Alexandria, Egypt

Design Scenarios for Incorporating Technologically Enhanced Local Materials in Sustainable Architecture

Nadine Al-Baqour; *Alexandria University, Architecture Department*; Alexandria, Egypt

Nature-based Solutions als Aspekt bei der Entwicklung innerstädtischer, hochfrequentierter Parkanlagen am Beispiel Rennbahnpark Frankfurt und Neckarvorland Mannheim

Christian Wild; *bhm Planungsgesellschaft mbH; Bruchsal, DE*

Smart Urban Resilience: From Nature-Based Solutions (NBS) to Nature-Positive Cities

Andreas Kipar; *LAND SRL, LAND SRL; Milano, Italia*

Fighting Climate Change: the Environmental Impact of Planning

Analysis and Synthesis of Systematic Literature Review on Determinants Influencing Accessibility and Use Behaviour of Urban Green Spaces (reviewed paper)

Endalew Terefe Alene; *The Hong Kong Polytechnic University, Building and Real Estate*; Hong Kong, Hong Kong, China
Yuting Hou; *The Hong Kong Polytechnic University, Building and Real Estate*; Hong Kong, Hong Kong, China

Caring for Our Planet: The Imperative of Territorial Regeneration (reviewed paper)

Radostina Radulova-Stahmer; *TU Graz, Institute of Urbanism*; Graz, AT

Challenges Associated with Climate Change Impact in the Megacities of India (reviewed paper)

Shadananan Nair Krishnapillai; *Centre for Earth Research and Environment Management*; Kochi, India

Climate Change Impacts on Food (In)Security: a Case Study of Enyezane, Kwazulu-Natal, South Africa (reviewed paper)

Vuyiswa Letsoko; *University of Johannesburg, Urban and Regional Planning*; Johannesburg, South Africa
Bonakele Mazibuko; *University of Johannesburg, Urban and Regional Planning*; Johannesburg, South Africa

Exploring Community Resilience Strategies in the Face of Escalating Heat Waves: a Comprehensive Study of Giyani, South Africa (reviewed paper)

Sharon Rikhotso; *University of Johannesburg, Urban and Regional Planning*; Giyani, South Africa
Trynos Gumbo; *University of Johannesburg, Urban and Regional Planning*; Johannesburg, South Africa

Integrating Climate Change Adaptation into Strategic Urban Development (reviewed paper)

Heba Soliman; *Kafr Elsheikh university, Architecture Engineering*; Algharbia, Egypt

Latent Heat Storage to Improve the Urban Microclimate (reviewed paper)

Gamze Ünsal-Peter; *Hochschule Mannheim, CeMOS Institute*; Mannheim, Germany
Thomas Walch; *Worldcode1*; Rauenberg, Germany
Hans Rüdiger Kaufmann; *Hochschule der Wirtschaft für Management Mannheim, Master in Business Management*; Mannheim, Germany
Matthias Rädle; *Hochschule Mannheim, CeMOS Institute*; Mannheim, DE

Urban Vegetation as a Mitigation Strategy for Urban Heat Island Effect A Case of Kerala

Athul Thirumangalath; Kozhikode, India

Urban Regeneration and Revitalisation: Making older Urban Quarters Fit for the Future

An Approach to Investigate the Relationship between Spatial Configurational Pattern and Heritage Classification: Case study Alexandria City (reviewed paper)

Yasmine Arafa; Arab Academy for Science and Technology, Architecture Department; Alexandria, Egypt
Tarek Farghaly; Alexandria University, Architectural Engineering Department; Alexandria, Egypt
Dina Saadallah; Alexandria University, Architectural Engineering Department; Alexandria, Egypt

Balancing Heritage Preservation and Regeneration in Riyadh: Objectives and Considerations (reviewed paper)

Mayas Ahmad Taha; AL-Yamamah University, AL-Yamamah University; Riyadh, Saudi Arabia

Circular Economy Principles and Planetary Boundaries (reviewed paper)

Mihaela Meslec; Waedenswil, CH
Matthias Haase; Waedenswil, CH

Transformation ehemaliger Arbeiterinnen- und Arbeitersiedlungen in Niederösterreich (reviewed paper)

Katharina Kirsch-Soriano da Silva; Caritas der Erzdiözese Wien - Hilfe in Not, Stadtteilarbeit; Vienna, AT
Lukas Botzenhart; Caritas der Erzdiözese Wien - Hilfe in Not, Stadtteilarbeit; Vienna, AT

Vienna's Supertanker: Viennese Social Housing from the 1950s to the 1980s as a Case Study for Fast and Sustainable Re-Attraction of the Cities (reviewed paper)

Ulrich Pont; TU Wien, TU Wien; Vienna, AT

An Assessment of the Efficiency of Planning Parameters as a Sustainable Planning Tool for Urban Revitalisation

Yaazhini Pachaiyappan Ramadevi; School Of Architecture and Planning, Anna University, Department of Planning; Chennai, India

Fourth Nature: Regenerating Cosmicity

Simone Back Prochnow; Federal University of Rio Grande do Sul, Faculty of Architecture; Porto Alegre, Brazil

Public Well-Being: How to Increase Well-being and Satisfaction of the Population

Digital Human – Introduction (reviewed paper)

Pietro Elisei; *ISOCARP, President – ExCom member*; CA The Hague, The Netherlands
Vasily Popovich; *IST BUREAU LLC*; St. Petersburg, Russia
Manfred Schrenk; *CORP – Consulting Research Projects*; Vienna, AT
Tatiana Popovich; *IST BUREAU LLC*; St. Petersburg, Russia
Ivan Griaznykh; *IST BUREAU LLC*; St. Petersburg, Russia

Examination of Sustainable Human Resource Management on Employee Performance Indicators (reviewed paper)

Marleen Christ; *einfach.effizient. Treuhand Unternehmensberatung GmbH & Co.KG, eeTU*; Oldenburg, DE
Henning Tirrel; *einfach.effizient. Treuhand Unternehmensberatung GmbH & Co.KG*; Oldenburg, DE

Exploring ESG Practises and Livelihoods Promotion Nexus in Mining Host Communities: Lessons from Aggeneys, Pella and Pofadder Mining Host Communities (reviewed paper)

Khwathelani Violet Tshifularo; *University of Johannesburg, Urban and regional planning*; Johannesburg, South Africa
Trynos Gumbo; *University of Johannesburg, Urban and Regional Planning*; Johannesburg, South Africa
Innocent Moyo; *University of Zulu land*; Durban, South Africa

Maintaining Water and Sanitation Service Delivery in Rural and Peri-Urban North West Province of South Africa: Governance as Social or Entrepreneurial Responsibility? (reviewed paper)

Samson Faboye; *University of Johannesburg, Urban and Regional Planning*; Johannesburg, South Africa
Trynos Gumbo; *University of Johannesburg, Urban and Regional Planning*; Johannesburg, South Africa

Serving Space and Being Served Space – a Humanised Future Approach to Living Space Design for the Elderly (reviewed paper)

Li Lei; *Beijing Jiaotong University, Architecture and art design*; Beijing, China

The Human-Based Sustainability: a Responsive Approach towards Cities Redevelopment (reviewed paper)

Aya Abdelmajeed; *Alexandria university, architecture department*; 33560567, Qatar
Asmaa Hasan; *Alexandria, Egypt*
Mohamed Fikry; *Alexandria, Egypt*

About the “Soundscape”: Are you a Pro or a Con?

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

How do They Ride? Analysis of Cycling Biomechanics (“MODELO-Rad” Project)

Martin Bejarano; *Hochschule Karlsruhe, Institut für Verkehr und Infrastruktur (IVI)*; Karlsruhe, Baden-Württemberg
Jochen Eckart; *Hochschule Karlsruhe, Institut für Verkehr und Infrastruktur (IVI)*; Karlsruhe, Baden-Württemberg

Wie bindet man seine Mitarbeitenden? Fördern die Arbeitgeberattraktivität und die betriebliche Gesundheitsförderung die Bleibemotivation der Mitarbeitenden? Eine quantitative Fragebogenstudie

Daniel Zimmer; *Hochschule der Wirtschaft für Management (HdWM)*; Mannheim, DE
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Andreas Zimmer; *Hochschule der Wirtschaft für Management (HdWM)*; Heidelberg, DE

The Urban and the Country Side: What can they Learn from Each Other?

Changing Livelihoods in Peri-Urban Villages of Small Towns in South Africa (reviewed paper)

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

Nils Ekelund; *Malmö University, Department of Natural Science, Mathematics and Society; Malmö, Sweden*

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Die Diskrepanz zwischen Anspruch und Wirklichkeit: Wie gestalten wir intelligente Städte und Regionen der Zukunft kompetenzorientiert durch vernetztes Arbeiten? (reviewed paper)

Marvin Baldauf; *Metropolitan Region Rhein-Neckar, Digitalisierung; Mannheim, DE*

Christian Schachtner; *RheinMain University of Applied Sciences, Dept. Design, Computer Science, Media (DCSM); Wiesbaden, DE*

Functional Integration of Rural Communities with Propulsive Urban Growth Centre in their Vicinity through Nature Base Solutions (reviewed paper)

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

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Revisiting Regionalism in the Era of Smart Cities and Rapid Urbanisation: The Global South Sustainable Development Goals Conundrum (reviewed paper)

Bongumusa Ndwandwe; *University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa*

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

Eric Nyembezi Makoni; *University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa*

Smart Culture: Digitisation Strategies of two Museums in Tuscany (reviewed paper)

Niccolo Fiorini; *University of Siena, Department of Business and Law; Siena, Italy*

Costanza Noferi; *University of Siena; Siena, Italy*

Accessible Cities and Spaces: Not only a Benefit for People with Disabilities

Opening and Closing Doors: New Concepts towards Accessibility ("Barrierefreiheit") (reviewed paper)

Ulrich Pont; *TU Wien, TU Wien; Vienna, AT*
Matthias Schuss; *TU Wien, TU Wien; Vienna, AT*

The Built Environment and Universal Design: Are Architectural Competitions a Qualified Instrument to a Better Consideration of the Diversity Dimension Impairment? (reviewed paper)

Ulrich Pont; *TU Wien, TU Wien; Vienna, AT*
Ines Jürgens; *TU Wien, TU Wien; Wien, AT*
Isabella Kolbitsch; *TU Wien, TU Wien; Wien, AT*
Anastasia Mahdych; *TU Wien, TU Wien; Wien, AT*
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Ksenia Razorenova; *Wien, AT*
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Unequal Landscapes of Play: A Comparative Analysis of Accessibility for Children in Johannesburg's Townships and Suburbs (reviewed paper)

Vuyiswa Letsoko; *University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa*

CE-Spaces4ALL Project Presentation

Blaz Barboric, *Geodetic Institute of Slovenia; Ljubljana, Slovenia*
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Clemens Beyer, *University of Natural Resources and Life Sciences; Vienna, AT*

Ageing Smart – Designing Spaces Intelligently

Conceptualising Smart Cities in the Japanese Planning Culture (reviewed paper)

Karina Pallagst; *RPTU Kaiserslautern-Landau, International Planning Systems*; Kaiserslautern, DE
Jonas Pauly; Kaiserslautern, DE
Marian Stumpf; Kaiserslautern, DE

Empowering Ageing: Navigating the Future of Digital Healthcare for Older Adults – a Rapid Review of Perspectives and Challenges (reviewed paper)

Amina Singh-Mehta; *University of Applied Management Studies*; Mannheim, DE
Phillip Nixdorf; *University of Applied Management Studies*; Mannheim, DE
Sophia Schulz; *University of Applied Management Studies*; Mannheim, DE
Andrea Tales; *Swansea University*; Swansea, UK
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Andrea Tales; *Swansea University*; Swansea, UK
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Suitability of the Residential Location of Older People: towards a Typology in Flanders, Belgium (reviewed paper)

Wesley Gruijthuijsen; *KU Leuven, Geography & Tourism*; Leuven, Belgium
Dominique Vanneste; *KU Leuven, Geography & Tourism*; Leuven, Belgium

Ageing Smart Digital Instruments in a Municipal Context: Data, Analyses and Strategies (not only) for Baby Boomers

Annette Spellerberg; *RPTU Kaiserslautern-Landau, Urban Sociology*; Kaiserslautern, DE