

REAL CORP 2024

LIST OF AUTHORS

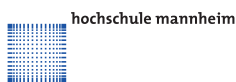
29th International Conference on Urban Planning and Regional Development in the Information Society
GeoMultimedia 2024



**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**






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







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SCHEDULE

Monday, 15 April 2024

Time	Auditorium 1	
09:00-10:30	Conference Opening	
MONDAY TUESDAY WEDNESDAY	<p>Welcome to REAL CORP 2024</p> <p>Christian SPECHT Mayor of the City of Mannheim, Germany</p> <p>Perizat DAGLIOGLU President of University of Applied Management Studies Mannheim, Germany</p> <p>Angelika ALTMANN-DIESES Rector of Hochschule Mannheim – University of Applied Sciences; Mannheim, Germany</p> <p>Hans-Rüdiger KAUFMANN University of Applied Management Studies Mannheim, Germany</p> <p>Pietro ELISEI President ISOCARP – International Society of City and Regional Planners; The Hague, NL</p> <p>Manfred SCHRENK Conference Director</p>	
	10:30-11:00	Coffee Break
	11:00-13:00	Opening Keynotes
		<p>From Barrel to Pixel: Deconstructing Knowledge-Based Urban Development in Gulf Cities Beyond Carbon Paradigm Ali A. ALRAOUF Ministry of Municipality and Environment, Qatar</p>
		<p>Urban Controversies – Traditional Planning Principles versus Modern Practise Dhiru A. THADANI Thadani Architects + Urbanists; Washington DC, USA</p>
		<p>Sponge Cities: Resilience and Livability from Nature-based Solutions and Integration of Green and Grey Systems Stefan RAU Asian Development Bank, Sectors Group, Water and Urban Development; Beijing, China</p>
13:00-14:00	Lunch Break	

Monday, 15 April 2024

Auditorium 1		Time
Keynotes Chair: Manfred SCHRENK		14:00-15:30
	Trends and Challenges within Smart City Project Agenda Dagmar CAGÁNOVÁ Comenius University Bratislava, Vice Dean for Strategic Development, Projects and Innovations; Bratislava, Slovakia	MONDAY TUESDAY WEDNESDAY
	Smart Farming Thomas PEUNTNER Global HR Director at John Deere; 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? Christian SCHACHTNER RheinMain University of Applied Sciences; Wiesbaden, Germany Marvin BALDAUF Metropolitan Region Rhine-Neckar; Mannheim, Germany	
 <p>Who is speaking right now? Find it out on https://live.corp.at</p> 		
Coffee Break		15:30-16:00

SCHEDULE

Monday, 15 April 2024

Time	Auditorium 1	Auditorium 2
16:00-17:30	Nature-Based Solutions Chair: Stefan RAU	Smarte Mobilität Moderation: Daniel BROSCART
MONDAY TUESDAY WEDNESDAY	<p>🏆 A New Adaptation Strategy to Changing Local Climatic Conditions in Urban Areas? The Use of Leaf-Turning Tree Species Sascha HENNINGER, Judith GEIB RPTU Kaiserslautern-Landau, Fachbereich Raum- und Umweltplanung, Physische Geographie; Kaiserslautern, DE</p> <p>🏆 MELT Plates: The Abolition of Overheating in Lightweight Buildings through an Optimised form of Latent Heat Storage Frederik WUNDER*, Sebastian SONNICK*, Thomas WALCH**, Matthias RÄDLE*, Hans Rüdiger KAUFMANN*** * Hochschule Mannheim; Mannheim, DE ** Worldcode1; Rauenberg, DE *** Hochschule der Wirtschaft für Management Mannheim, M.A. Business Management; Mannheim, DE</p> <p>Smart Urban Resilience: From Nature-Based Solutions (NBS) to Nature-Positive Cities and Landscapes Andreas KIPAR LAND SRL; Milano, Italia</p>	<p>🏆 Bedarfsverkehr im ländlichen Raum zur Sicherung der letzten Meile, Analyse erfolgreicher Fallbeispiele aus dem Bundesland Salzburg Roman KLEMENTSCHITZ, Igor WOLOSCHTSCHUK, Roxani GKAVRA, Gregor HUSNER, Yusak SUSILO Universität für Bodenkultur, Institut für Verkehrswesen; Wien, AT</p> <p>🏆 Emotionen im Radverkehr messen, vergleichen und verstehen: Evaluation verschiedener Erhebungsansätze in der Stadt Osnabrück Nina HAUG, Céline SCHMIDT-HAMBURGER, Peter ZEILE Karlsruher Institut für Technologie (KIT), Stadtquartiersplanung; Karlsruhe, DE</p> <p>🏆 Cruising in KL: Lokalisierung und Quantifizierung von Parksuchverkehr mittels Floating Car Data Julia MAYER*, Hossam ZAKI** * Deutsches Forschungszentrum für Künstliche Intelligenz (DFKI) GmbH, Smarte Daten und Wissensdienste; Kaiserslautern, DE ** RPTU Kaiserslautern-Landau, FB Informatik; Kaiserslautern, DE</p>
	Presentations marked with 🏆 are reviewed papers.	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p><i>What's coming up next?</i></p> <p><i>Our live conference guide</i></p> <p>http://live.corp.at</p> <p><i>has the answer</i></p> </div>
	afterwards Tram City Tour and Dinner (registration at MY.CORP necessary, additional cost € 30.-)	

Monday, 15 April 2024

Auditorium 3	Auditorium 4	Time
Ageing Smart Chair: Martin BERCHTOLD	Efficient Use of Resources Chair: Jan-Philipp EXNER	16:30-18:00
<p>Introduction to Ageing Smart Martin BERCHTOLD RPTU, Fachbereich Raum- und Umweltplanung; Kaiserslautern, DE</p> <p>🏆 Empowering Ageing: Navigating the Future of Digital Healthcare for Older Adults – a Rapid Review of Perspectives and Challenges Amina SINGH-MEHTA*, Phillip NIXDORF*, Sophia SCHULZ*, Andrea TALES**, Gary CHRISTOPHER** * University of Applied Management Studies; Mannheim, DE ** Swansea University; Swansea, UK</p> <p>🏆 Conceptualising Smart Cities in the Japanese Planning Culture Karina PALLAGST, Jonas PAULY RPTU Kaiserslautern-Landau, International Planning Systems; Kaiserslautern, DE</p> <p>🏆 Suitability of the Residential Location of Older People: towards a Typology in Flanders, Belgium Wesley GRUIJTHUIJSEN, Dominique VANNESTE KU Leuven, Geography & Tourism; Leuven, Belgium</p> <p>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</p>	<p>🏆 Regeneration of Urban Sites with Circular Economy Principles Matthias HAASE, Mihaela MESLEC ZHAW; Wädenswil, CH</p> <p>🏆 Development of an Energy Transition Cycle in the City of Eisenstadt Robert PRATTER*, Philipp NOVAKOVITS**, Lukas GNAM***, Werner TSCHIRK**** * 4ward Energy Research GmbH; Graz, AT ** Forschung Burgenland GmbH; Eisenstadt, AT *** Fachhochschule Burgenland GmbH; Pinkafeld, AT **** RAUMBild; Mattersburg, AT</p> <p>Sustainable Concrete-Based Structures: Review for the Potential Benefits of Basalt Fiber Reinforced Concrete (BFRC) in Enhancing the Environmental Performance of Buildings Nadine ALBQOUR*, Mohammad SHEHATA*, Zeyad ELSAYAD*, Shafer RABABEH** * Alexandria University, Architecture Department; Alexandria, Egypt ** University of Texas Arlington; Arlington, USA</p> <p>🏆 BIM and Carbon Emissions Nexus: A Way Forward for Reducing Carbon Emissions in the South African Construction Industry Peter China MASHININI, Trynos GUMBO, Jeffrey MAHACHI University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa</p>	<p>MONDAY</p> <p>TUESDAY</p> <p>WEDNESDAY</p>

SCHEDULE

Tuesday, 16 April 2024

Time	Auditorium 1	Auditorium 2
09:30-11:00	How to Use a Smart City Chair: Manfred SCHRENK	Smarte Technologien Moderation: Jan-Philipp EXNER
MONDAY TUESDAY WEDNESDAY	<p>🏆 Sustainable, Smart and Humane Cities: From Utopia to Reality Judith RYSER*, Teresa FRANCHINI** * CityScope Europe; London, UK ** Temanova; Madrid, Spain</p> <p>AI and Smart City Focusing on Mobility Heiner STUCKENSCHMIDT University of Mannheim, Chair of Artificial Intelligence; Mannheim, DE</p> <p>🏆 Employee Behaviour as a Possible Corporate System Vulnerability when Implementing Digitalisation in Smart Cities Lara SEHLMAYER, Hans Rüdiger KAUFMANN University of Applied Management Studies Mannheim; Mannheim, DE</p> <p>🏆 Does City Smartness Improve Urban Environment and Reduce Income Disparity? Evidence from an Empirical Analysis of Major Cities Worldwide Boris A. PORTNOV University of Haifa; Haifa, Israel</p> <div style="border: 1px solid black; padding: 10px; margin-top: 20px;">  <p>http://live.corp.at</p> <p>LIVE CONFERENCE GUIDE</p> </div>	<p>Vereinbarkeit von ganzheitlich gedachter Ökologie und Ökonomie in einem Gewerbequartier Arndt BRAUCKMANN Brainergy Park Energie GmbH; Jülich, DE</p> <p>🏆 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 Daniel BROSCHEART*, Florian SIEGERT**, Marina FISCHER**, Juilson JUBANSKI** * Stadt Landsberg am Lech, Digitaler Zwilling, Klimaschutz und Mobilität; Landsberg am Lech, DE ** 3D RealityMaps; München, DE</p> <p>Die Diskrepanz zwischen Anspruch und Wirklichkeit: Wie gestalten wir intelligente Städte und Regionen der Zukunft kompetenzorientiert durch vernetztes Arbeiten? Marvin BALDAUF*, Christian SCHACHTNER** * Metropolitan Region Rhein-Neckar, Digitalisierung; Mannheim, DE ** RheinMain University of Applied Sciences, Dept. Design, Computer Science, Media (DCSM); Wiesbaden, DE</p>
11:00-11:30	Coffee Break	

Presentations marked with 🏆 are reviewed papers.

Tuesday, 16 April 2024

Auditorium 3	Auditorium 4	Time
<p>MEET THE EDITORS: Regenerative Futures & AI – Science, Concept & Solutions for SDG Chair: Hans Rüdiger KAUFMANN</p>	<p>Case Studies in Planning I Chair: Christian EIZINGER</p>	<p>09:30-11:00</p>
<p>Book Presentation Regenerative Futures and Artificial Intelligence First comprehensive compendium on sustainability and artificial intelligence. Comprehensive and systematic reference work. Introduction, systematic overview and state of the art Springer, 2024; ISBN 978-3-658-43585-1</p> 	<p>🏆 Evaluating the Impact of Urbanisation on Climate Change: A Case of Kochi City, Kerala State, India Adinarayanane RAMAMURTHY, Faiz Ahmed CHUNDELI, Aswirth G CHANDRAN, Taruni JOSHI School of Planning and Architecture, Department of Architecture; Vijayawada, India</p>	<p>MONDAY</p> <p>TUESDAY</p> <p>WEDNESDAY</p>
<p>Book Presentation The Palgrave Handbook on Consumerism issues in the Apparel Industry In the present era of sustainable business and marketing practise, there is a growing concern for ethics, social and ecological responsibility centred issues. Within this nexus of ethics, social and ecological corporate responsibility, “consumerism” is considered as a most influential concept dealing with individual fairness, ethical, green/environmental and social issues. Palgrave Macmillan, 2024.</p>	<p>🏆 Investigating the Research Landscape of Virtual Reality in Built Environment Education on the African Continent: a Bibliometric Review Nischolan PILLAY*, Kiara LAWRENCE*, Trynos GUMBO** * Durban University of Technology; Durban, South Africa ** University of Johannesburg, Department of Urban and Regional Planning; Johannesburg, South Africa</p>	
<p>Book Presentation Begrifflichkeiten und Theorie zur Automatisierung im Straßenverkehr The vademecum deals with issues relating to the roadworthiness of the automation technologies installed in the vehicles, so that a conflict-free approach between the vehicles and other road users can be guaranteed. It is intended to serve as an impetus for the mobility groups’ discourse on future road transport. Springer, 2023, ISBN 978-3-662-66513-8</p> 	<p>Exploring Consumer Adoption of Electric Vehicles in Japan: an Empirical Study Mitsunori HIROGAKI Kyushu University, Graduate School of Economics; Fukuoka, Japan</p>	
<p>Journal Presentation Progress in Industrial Ecology ISSN 1476-8917, 1478-8764</p> <p>Kai GONDLACH Futurologist and Managing Director of PROFORE GmbH, Editor of “Regenerative Futures and Artificial Intelligence”</p> <p>Birgit BRINKMANN Communications Expert, Account Portfolio Manager, Co-editor of “Regenerative Futures and Artificial Intelligence”, Editor of “Regenerative Futures and Artificial Intelligence”</p> <p>Ass.Prof. Niccolo FIORINI University of Siena: Assistant Editor of Journal “Progress in Industrial Ecology”</p> <p>Prof. Dr. Hans Rüdiger KAUFMANN Co-editor of The Palgrave Handbook on Consumerism issues in the Apparel Industry; Editor-in-Chief Journal “Progress in Industrial Ecology”, Associate Editor “World Review of Entrepreneurship”, Management and Sustainable Development; Editorial Board Member of “EuroMed Journal of Business”</p> <p>Heinz DÖRR Author of “Begrifflichkeiten u. Theorie zur Automatisierung im Straßenverkehr”</p>	<p>🏆 Chronicles of Peri-Urban Expansion in Small Rural Towns: a Comprehensive Study of Makhado Biaba’s Built-Up Areas from 1995 to 2022 Ngudo Winny NTHANGENI*, Trynos GUMBO*, Emmaculate INGWANI**, Nils EKELUND*** * University of Johannesburg, Department of Urban and Regional Planning; Johannesburg, South Africa ** University of Venda, Urban and Regional Planning; Thohoyandou, South Africa *** Malmö University, Natural Sciences, Mathematics, Society; Malmö, Sweden</p>	
Coffee Break		<p>11:00-11:30</p>

SCHEDULE

Tuesday, 16 April 2024

Time	Auditorium 1	Auditorium 2
11:30-13:00	Smart Resilience Chair: Dirk ENGELKE	Planung & Daten Moderation: Clemens BEYER
<div style="writing-mode: vertical-rl; transform: rotate(180deg);">MONDAY</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TUESDAY</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">WEDNESDAY</div>	<p>🏆 The Current Use and Limitations of Water Related Digital Twins – a Practical View on Urban Climate Change Adaptation Markus GROTH*, Steffen BENDER*, Thea WÜBBELMANN** * Climate Service Center Germany (GERICS) - Helmholtz-Zentrum hereon; Geesthacht, DE ** Geesthacht, DE</p> <p>🏆 Small-scale Production Sites as Part of Urban Resilience Infrastructure: The Intersections of Urban Planning and the Fab City Kimberly TATUM, Jörg KNIELING HafenCity University Hamburg, Institute for Urban Planning and Regional Development; Hamburg, DE</p> <p>🏆 Spatial Strategies for Economic Growth within “Net Zero Land Take” Jan ZAMAN Idea Consult, Real Estate and Territorial Development; Brussel, Belgium</p> <p>🏆 Smart Cities through Online Dating and Sustainability – Responsible Leadership in Smart Cities Ursula SCHINZEL Unicaf University, Business Administration; Luxembourg, Luxembourg</p> <p>🏆 Developing a Technological Innovations Framework for Energy Security: a Case of City Power, Johannesburg Nkosingizwe Mazwi MCHUNU, Trynos GUMBO, George ONATU University of Johannesburg, Department of Urban and Regional Planning; Johannesburg, South Africa</p>	<p>Regionalisierung von Wohnungsmärkten anhand kleinräumiger Umzugsbewegungen in Deutschland Lukas TIEMANN BPD Immobilienentwicklung GmbH, Market Research; Frankfurt am Main, DE</p> <p>Wie bindet man seine Mitarbeitenden? Fördern die Arbeitgeberattraktivität und die betriebliche Gesundheitsförderung die Bleibemotivation der Mitarbeitenden? Eine quantitative Fragebogenstudie Daniel ZIMMER, Shannon RITZ, Lukas RÖMER, Andreas ZIMBER Hochschule der Wirtschaft für Management (HdWM); Mannheim, DE</p> <p>Centropemap – statistische Zeitreihendaten einer grenzüberschreitenden Region Clemens BEYER, Manfred SCHRENK CORP – Competence Center of Urban and Regional Planning; Schwechat, AT</p>
13:00-14:00	Lunch Break	



Live Info available on screens at the venue






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<http://live.corp.at>

Tuesday, 16 April 2024

Auditorium 3	Auditorium 4	Time
Towards a Better Living Chair: Judith RYSER	Case Studies in Planning II Chair: Christian EIZINGER	11:30-13:00
<p> Digital Human – Introduction Pietro ELISEI*, Vasily POPOVICH**, Manfred SCHRENK***, Tatiana POPOVICH**, Ivan GRIAZNYKH** * ISOCARP, President – ExCom member; The Hague, NL ** IST BUREAU LLC; St. Petersburg, Russia *** CORP – Consulting Research Projects; Vienna, AT</p> <p> The Built Environment and Universal Design: Are Architectural Competitions a Qualified Instrument to a Better Consideration of the Diversity Dimension Impairment? Ulrich PONT, Ines JÜRGENS, Isabella KOLBITSCH, Anastasia MAHDYCH, Jana PETROVIC, Vanessa RAAS, Ksenia RAZORENOVA, Alexander SCHWEITZER TU Wlen; Vienna, AT</p> <p>CE-SPACES4ALL: Improving Accessibility of Tourism for Persons with Disabilities in Central Europe Blaž BARBORIČ*, Manfred SCHRENK**, Tatjana FISCER**, Clemens BEYER** * Geodetic Institute of Slovenia; Ljubljana, Slovenia ** BOKU, Inst. of Spatial Planning; Vienna, AT</p> <p>About the “Soundscape”: Are you a Pro or a Con? Olivier LEFEBVRE Olivier Lefebvre Consultant; Paris, France</p>	<p>Passive Cooling Technologies for Reducing the Heating of Containers Tanja VETTER, Norbert SCHNEIDER, Heinrich DINNEBIER Wehrwissenschaftliches Institut für Werk- und Betriebsstoffe der Bundeswehr; Erding, DE</p> <p> Revitalising our Urban Landscapes: A Call for Territorial Regeneration Radostina RADULOVA-STAHMER TU Graz, Institute of Urbanism; Graz, AT</p> <p> Exploring Community Resilience Strategies in the Face of Escalating Heat Waves: a Comprehensive Study of Giyani, South Africa Sharon RIKHOTSO, Trynos GUMBO University of Johannesburg, Department of Urban and Regional Planning; Johannesburg, South Africa</p> <p> Exploring ESG Practises and Livelihoods Promotion Nexus in Mining Host Communities: Lessons from Aggeneys, Pella and Pofadder Mining Host Communities Khwathelani Violet TSHIFULARO*, Trynos GUMBO*, Innocent MOYO** * University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa ** University of Zulu Land; Durban, South Africa</p> <p>Presentations marked with are reviewed papers.</p>	<p>MONDAY</p> <p>TUESDAY</p> <p>WEDNESDAY</p>
Lunch Break		13:00-14:00

SCHEDULE

Tuesday, 16 April 2024

Time	Auditorium 1	Auditorium 2
14:00-14:30	Post-Lunch Keynote Chair: Manfred SCHRENK	
MONDAY	 Exploring New Paradigms in Urban Sustainability: The 15-Minute City Beniamino MURGANTE University of Basilicata, School of Engineering; Potenza, Italy	
	Auditorium 1	
TUESDAY	14:30-15:30 ROUND TABLE DISCUSSION: Universities as Drivers of Sustainability Chair: Hans Rüdiger KAUFMANN	Smart Information Infrastructure Chair: Clemens BEYER
WEDNESDAY	<p>Universities play an important role in fostering sustainability. Firstly, they create and disseminate knowledge through research and teaching. Secondly, universities increasingly reduce their own carbon emissions in operations. Thirdly, universities play a pivotal role in capacity building sharing their experience in sustainability matters with other stakeholders such as companies, local municipalities, startups and citizens.</p> <p>The different sustainability measures on the path towards climate neutrality will be addressed based on the example of Zeppelin University in Friedrichshafen. Beyond own operations the role of universities in capacity building in sustainability with other stakeholders will be further discussed. In a panel of different universities (HdWM Mannheim, Zeppelin University, HS Mannheim, EVBB) similar and different experience in fostering sustainability networks will be analyzed. Which strategies proved to be successful in advancing towards a sustainable university? Can universities share their experience with other stakeholders and on the other hand benefit from the examples of others?</p> <p>PANEL:</p> <p>Dr. Fabian SENNEKAMP Zeppelin University, Consultant to the President & Managing Director, Sustainability Management; Friedrichshafen, DE</p> <p>Prof. Dr. Matthias RÄDLE Univ. of Applied Sciences Mannheim/CeMOS; Mannheim, DE</p> <p>Alfred PALLARCA European Association of Institutes for Vocational Training, Project Manager; Brussels, Belgium</p> <p>Prof. Dr. Dolores SANCHEZ BENGOA University of Applied Management Studies, Vice President of International Relations; Mannheim, DE</p>	<p> Security and Compliance in Cloud Environments Christoph SANDBRINK, Anmol KUMAR University of Applied Management Studies Mannheim; Mannheim, DE</p> <p> Examination of Sustainable Human Resource Management on Employee Performance Indicators Marleen CHRIST, Henning TIRREL einfach.effizient. Treuhand Unternehmensberatung GmbH & Co.KG; Oldenburg, DE</p> <p> Smart Culture: Digitisation Strategies of two Museums in Tuscany Niccolo FIORINI, Costanza NOFERI University of Siena; Siena, Italy</p> <p>Presentations marked with  are reviewed papers.</p>
	15:30-16:00	Coffee Break

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SCHEDULE

Tuesday, 16 April 2024

Time	Auditorium 1	Auditorium 2
16:00-17:30	Smart and Efficient Chair: Hans Rüdiger KAUFMANN	Mensch und mobil Moderation: Linda DÖRRZAPF
MONDAY	Mannheim 2030: CO₂-Neutral via Geothermal Energy Georg PINS Stadt Mannheim, Abteilungsleiter Klimaschutz; Mannheim, DE	🏆 Partizipation und Planung der aktiven Mobilität: Der Einsatz von Cape Revisos Methodenkoffer am Beispiel Herrenbergs Céline SCHMIDT-HAMBURGER*, Peter ZEILE*, Nina HAUG*, Thomas OBST** * KIT, STQP – Neighbourhood planning; Karlsruhe, DE ** Höchstleistungsrechenzentrum, Stuttgart; Stuttgart, DE
TUESDAY	Smart City MACHen (MAking a Smart City) Robert THOMANN Geschäftsführer Smart City Mannheim GmbH; Mannheim, DE	Userbasiertes intermodales Routing Kathrin PRINZ RPTU; Kaiserslautern, DE
WEDNESDAY	🏆 The Role of Public-Private Partnerships in Smart City Development: A South African Perspective Peter China MASHININI, Trynos GUMBO, Jeffery MAHACHI University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa	🏆 Gendersensible Mobilität - Hindernisse und Handlungsoptionen im Kontext von Carsharing Linda DÖRRZAPF*, Sonja GRUBER**, Ornella MAROVIC*** * TU Wien, Institute of Spatial Planning; Wien, AT ** Büro Sonja Gruber; Wilfleinsdorf, AT *** MO.Point Mobilitätsservices GmbH; Wien, AT
	🏆 Synergizing BIM, Digital Twin, and XR: An Approach for Real-Time Building Analysis and Enhanced Laboratory Management Joel LEHMANN, Kevin KASTNER, Florian KOLB, Tim HÄUSSERMANN, Felix WÜHLER, Alessa RACHE, Matthias RÄDLE, Julian REICHWALD Hochschule Mannheim, CeMOS; Mannheim, DE	🏆 Decoding Stress – ein interdisziplinärer Analyseansatz zur Identifikation Stress auslösender Faktoren für den urbanen Rad- und Fußverkehr Nina HAUG, Peter ZEILE, Markus NEPPL KIT, STQP – Stadtquartiersplanung; Karlsruhe, DE
	<div style="border: 2px solid red; padding: 20px; background-color: #f0f0f0;"> <p style="font-size: 24px; color: #0056b3; margin: 0;">Also note the live info monitor next to the registration desk!</p> </div>	
from 18:00	Official REAL CORP 2024 Evening Reception at MAFINEX (Julius-Hatry-Straße 1, 68163 Mannheim)	

Tuesday, 16 April 2024

Auditorium 3	Auditorium 4	Time
Information Infrastructure and the City Chair: Beniamino MURGANTE	WORKSHOP: Data and AI: Driving Force for the Future Smart Cities	16:00-17:30
<p>🏆 Digital Space of a Human: From Philosophy to Computer Science Pietro ELISEI*, Vasily POPOVICH**, Manfred SCHRENK***, Tatiana POPOVICH** Ivan GRIAZNYKH**</p> <p>* ISOCARP, President – ExCom member; CA The Hague, The Netherlands ** IST BUREAU LLC.; St.Petersburg, Russia *** CORP – Consulting Research Projects, Managing Director ; Vienna, AT</p> <p>🏆 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 Tlou Phillemon MATHANE, Trynos GUMBO, Eric Nyembezi MAKONI University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa</p> <p>🏆 Sustainable Operation of Digital Infrastructure in the Smart City: Practical Experience and Implications Jan-Philipp EXNER, Patrick ANDRES ZENNER International GmbH & Co. KG, IoT & Digital Solutions; Saarbrücken, DE</p> <p>🏆 The Use of Situated Visualized Data to Nudge Visitor’s Paths: a Case Study at the Detmold Design Week 2023 Mareile LICHT, Amanda BARBOSA JARDIM, Maximilian MÜH, Axel HÄUSLER Technische Hochschule Ostwestfalen-Lippe; Detmold, DE</p> <p>Presentations marked with 🏆 are reviewed papers.</p>	<p>The workshop deals with the integration of AI in urban and regional planning for the precise and exemplary analysis of population trends, traffic flows and energy consumption. By predicting future developments and events, cities can build sustainable infrastructures and ensure more efficient use of resources. The aim is to emphasise the opportunities and possibilities of using AI. In this context, artificial intelligence (AI) emerges as a transformative force that not only analyses data but also generates well-founded insights and thus enables evidence-based decision-making processes. Our workshop offers starting points and a basis for discussion on the integration of AI in urban and regional planning for stakeholders from business, science, politics and administration. After an impulse, we will discuss the topic in groups together with the participants.</p> <p>Benedikt GIEGER*, Dhruv AGGARWAL**, Vivien HERGET**, Marvin BALDAUF** * Founding Curator at WEF and SAP; Mannheim, DE ** Global Shaper at WEF and SAP: Mannheim, DE</p> <div style="text-align: center;"> </div> <p>Global Shapers Community is an initiative of the World Economic Forum (WEF): https://www.globalshapers.org/hubs/heidelberg-hub/</p>	<p>MONDAY</p> <p>TUESDAY</p> <p>WEDNESDAY</p>

SCHEDULE

Wednesday, 17 April 2024

Time		Auditorium 2
09:30-11:00		<p>Nachhaltige Raumnutzung Moderation: Stefan RAU</p>
<p>MONDAY</p>	<p>REAL CORP 2024 IS BROUGHT TO YOU BY</p> 	<p>🏆 Transformation ehemaliger Arbeiterinnen- und Arbeitersiedlungen in Niederösterreich Katharina KIRSCH-SORIANO DA SILVA, Lukas BOTZENHART Caritas der Erzdiözese Wien - Hilfe in Not, Stadtteilarbeit; Vienna, AT</p> <p>Grow with Corporate Sustainability: ESG-Regulierungen als nachhaltige Wachstumstreiber Kim HIRSCH osapiens; Mannheim, DE</p> <p>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</p> <div style="border: 1px solid black; padding: 10px; margin-top: 20px;">  <p>http://live.corp.at</p> <p>LIVE CONFERENCE GUIDE</p> </div>
<p>TUESDAY</p>		
<p>WEDNESDAY</p>		
11:00-11:30		Coffee Break

Wednesday, 17 April 2024

Auditorium 3	Auditorium 4	Time
Artificial Intelligence in Planning Processes Chair: Dirk ENGELKE	Smart City Strategies in Africa Chair: Christian EIZINGER	09:30-11:00
<p> SMEXI – a Data-Based Approach for the Small-Scale Investigation of Sustainability Goals in Cities Martin MEMMEL*, Akhil YEERASAM** * DFKI GmbH, Smart Data & Knowledge Services / Smart City Living Lab; Kaiserslautern, DE ** Kaiserslautern, DE</p> <p>Data and AI: Driving Force for the Future Smart Cities Marvin BALDAUF*, Dhruv AGGARWAL*, Vivien HERGET*, Benedikt GIEGER** * Global Shaper, World Economic Forum; Mannheim, DE ** Founding Curator World Economic Forum; Mannheim, DE</p> <p> Exploring Generative AI in Planning: A Scenario-Building Simulation for the Master Plan of Bari, Italy Domenico CAMARDA*, Mauro PATANO** * Polytechnic University of Bari; Bari, Italy ** Bari, Italy</p> <p> The Implementation of Artificial Intelligence in Project Management Christoph SANDBRINK, Aditi BHARATI University of Applied Management Studies Mannheim; Mannheim, DE</p>	<p>Human Behaviour in Africa: a Real Challenge Factor towards Building Smart Cities Abderrahim BOUALY Association Jeunesse Tamdout – AJTCD-Maroc; Agadir, Morocco</p> <p> Foundation for a Theoretical Framework on the Location of Manufacturing Firms in the Vicinity of Airports Masilonyane MOKHELE Cape Peninsula University of Technology, Urban and Regional Planning; Cape Town, South Africa</p> <p> Policy and Legislative Enabling Environment for Implementing Digital Technologies in the Local Government Sector: a Case Study of South Africa Tlou Phillemon MATHANE, Trynos GUMBO, Eric Nyembezi MAKONI University of Johannesburg, Department of Urban and Regional Planning; Johannesburg, South Africa</p> <p> Smart Cities and Infrastructure Development: A Case Study of the Gauteng City Region in South Africa Boy Johannes MASHABELA, Jeffrey MAHACHI, Trynos GUMBO University of Johannesburg, Department of Urban and Regional Planning; Johannesburg, South Africa</p> <p>Presentations marked with are reviewed papers.</p>	<p>MONDAY</p> <p>TUESDAY</p> <p>WEDNESDAY</p>
Coffee Break		11:00-11:30

SCHEDULE

Wednesday, 17 April 2024

Time		Auditorium 2
11:30-13:00		Urban Regeneration Chair: Beniamino MURGANTE
MONDAY	<p>REAL CORP 2024 IS BROUGHT TO YOU BY</p>	<p>🏆 Circular Economy Principles and Planetary Boundaries Mihaela MESLEC, Matthias HAASE ZHAW; Wädenswil, CH</p>
TUESDAY		<p>🏆 Balancing Heritage Preservation and Regeneration in Riyadh: Objectives and Considerations Mayas AHMAD TAHA AL-Yamamah University, AL-Yamamah University; Riyadh, Saudi Arabia</p>
WEDNESDAY		<p>Fourth Nature: Regenerating Cosmicity Simone BACK PROCHNOW Federal University of Rio Grande do Sul, Faculty of Architecture; Porto Alegre, Brazil</p>
		<p>🏆 An Approach to Investigate the Relationship between Spatial Configurational Pattern and Heritage Classification: Case study Alexandria City Yasmine ARAFA*, Tarek FARGHALY**, Dina SAADALLAH** * Arab Academy for Science and Technology, Architecture Department; Alexandria, Egypt ** Alexandria University, Architectural Engineering Department; Alexandria, Egypt</p>
		<p>Presentations marked with 🏆 are reviewed papers.</p>
13:00-14:00		Lunch Break

Wednesday, 17 April 2024

Auditorium 3	Auditorium 4	Time
Modern Mobility Chair:Stefan RAU	Innovative Planning Approaches Chair: Christian EIZINGER	11:30-13:00
<p>A Comparative Analysis on the Impact of Culture, Norms and Attitudes on the Adoption of Eco-Friendly Transportation in Mannheim and Tokyo Ernest Shamorine BOHAM, Hans Rüdiger KAUFMANN University of Applied Management Studies Mannheim; Mannheim, DE</p> <p>🏆 User Preferences for Mobility as a Service (MaaS) Implementation in Germany Christoph SANDBRINK, Nara KARUNASENA University of Applied Management Studies Mannheim; Mannheim, DE</p> <p>🏆 User Experiences on the Integration of Non-Motorised Transport in Public Transport Systems: a Case of the Harambee Bus Rapid Transit Kiara LAWRENCE*, Trynos GUMBO**, Godfrey MUSVOTO* * Durban University of Technology, Department of Town and Regional Planning; Durban, South Africa ** University of Johannesburg, Department of Town and Regional Planning; Johannesburg, South Africa</p>	<p>🏆 Assessment of Residential Electricity Consumption and Renewable Energy Self-Sufficiency – a Case Study of Tainan, Taiwan Yi-Hsuan SHEN, Hsueh-Sheng CHANG National Cheng Kung University, Department of Urban Planning; Tainan, Taiwan</p> <p>🏆 A Regional Approach to Inner City Development – Lessons Learned from the ISEK⁴ Project Petra HIRSCHLER*, Sibylla ZECH*, Martin AUFHAUSER*, Elio PESCATORE*, Florian PÜHRINGER*, Tom BRANDSTETTER*, Theresa JANESCH*, Markus TOMASELLI**, Sebastian SATTLEGGER***, Annalisa MAURI***, Malene BUCHENBERGER** * TU Wien, Institute of Spatial Planning; Vienna, AT ** TU Wien, Institute of Urban Design and Landscape Architecture; Vienna, AT *** Vienna, AT</p> <p>ODD – Operational Design Domain as Test Arrangement for the Future Automatisations of Road Traffic Heinz DÖRR arp-planning.consulting.research; Wien, AT</p> <div style="background-color: #6a5acd; color: white; padding: 10px; text-align: center; margin-top: 20px;"> <p>What's coming up next? Our live conference guide http://live.corp.at has the answer</p> </div>	<p>MONDAY</p> <p>TUESDAY</p> <p>WEDNESDAY</p>
Lunch Break		13:00-14:00

SCHEDULE

Wednesday, 17 April 2024

		Auditorium 2	
Time			
14:00-15:30		Fighting Climate Change Chair: Beniamino MURGANTE	
MONDAY	<p>REAL CORP 2024 IS BROUGHT TO YOU BY</p>	<p>🏆 Latent Heat Storage to Improve the Urban Microclimate Lars ERLBECK, Gamze ÜNSAL-PETER*, Thomas WALCH**, Hans Rüdiger KAUFMANN***, Matthias RÄDLE***</p> <p>* Hochschule Mannheim, CeMOS Institute; Mannheim, DE ** Worldcode1; Rauenberg, DE *** Hochschule der Wirtschaft für Management Mannheim, Master in Business Management; Mannheim, DE</p>	
TUESDAY		<p>🏆 Evaluating the Potential of Vertical Farming Business Models for Sustainable Agriculture and Food Security in Cameroon Edith Vefemsi VIKIH, Hans Rüdiger KAUFMANN University of Applied Management Studies Mannheim; Mannheim, DE</p>	
WEDNESDAY		<p>🏆 Climate Change Impacts on Food (In)Security: a Case Study of Eneyzane, Kwazulu-Natal, South Africa Vuyiswa LETSOKO, Bonakele MAZIBUKO University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa</p>	
		<p>Live Info available on screens at the venue</p> <p>Also on your smartphone: http://live.corp.at</p>	
		<p>Auditorium 2</p>	
15:30-16:00		Conference Closing: Summary, Outlook, Perspectives	Auditorium 2

Wednesday, 17 April 2024

Auditorium 3	Auditorium 4	Time
<p>Sustainable Mobility Chair: Clemens BEYER</p>	<p>Public Well-Being Chair: Petra HIRSCHLER</p>	14:00-15:30
<p>How do They Ride? Analysis of Cycling Biomechanics (“MODELO-Rad” Project) Martin BEJARANO, Jochen ECKART Hochschule Karlsruhe, Institut für Verkehr und Infrastruktur (IVI); Karlsruhe, DE</p> <p>🏆 Analysis of Digital Technological Applications in Public Transportation Systems Ticketing and Communications: Reviews of Singapore, Sydney, Cape Town and Lagos Experiences Kiara LAWRENCE*, Trynos GUMBO**, Godfrey MUSVOTO* * Durban University of Technology, Department of Town and Regional Planning; Durban, South Africa ** University of Johannesburg, Department of Town and Regional Planning; Johannesburg, South Africa</p> <p>🏆 GreenTwin: Developing a Digital Twin for Sustainable Cooperative Mobility and Logistics in Rural Areas Ye Eun BAE*, Jan-Ole BERNDT*, Joachim BRINKMANN**, Guido DARTMANN**, Andreas HUCHT***, Annegret JANZSO*, Anna KRAVETS*, Chantal LIDYNIA****, Vivian LOTZ****, Marlies MORGEN**, Ralf PHILIPSEN****, Stephanie C. RODERMUND*, Alexander SCHEWERDA*, Jens SCHNEIDER**, Henrik TE HEESEN**, Ingo J. TIMM*, Kristof UEDING**, Martina ZIEFLE****, Sam KOPP** * Deutsches Forschungszentrum für Künstliche Intelligenz; Trier, DE ** Umwelt-Campus Birkenfeld; Birkenfeld, DE *** PSI Logistics GmbH; Berlin, DE **** RWTH Aachen University; Aachen, DE</p>	<p>🏆 The Human-Based Sustainability: a Responsive Approach towards Cities Redevelopment Aya ABDELMAJEED, Asmaa HASAN, Mohamed FIKRY Alexandria University, Architecture Department; Alexandria, Egypt</p> <p>Integrating Climate Change Adaptation into Strategic Urban Planning: Analysing Karlsruhe City Development Strategies Heba SOLIMAN Kafr Elsheikh University, Architecture Engineering; Algharbia, Egypt</p> <p>🏆 Maintaining Water and Sanitation Service Delivery in Rural and Peri-Urban North West Province of South Africa: Governance as Social or Entrepreneurial Responsibility? Samson FABOYE, Trynos GUMBO University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa</p> <p>🏆 Functional Integration of Rural Communities with Propulsive Urban Growth Centre in their Vicinity through Nature Base Solutions Papiya Bandyopadhyay RAUT*, Sandeep Kumar RAUT**, Vivek KUMAR*** * School of Planning and Architecture, Department Physical Planning; New Delhi, India ** Town and Country Planning Organisation GOI MoHUA, Regional Planning Division; New Delhi, India *** Indian Institute of technology Delhi, Center of Rural Development and Technology; New Delhi, India</p>	<p>MONDAY</p> <p>TUESDAY</p> <p>WEDNESDAY</p>