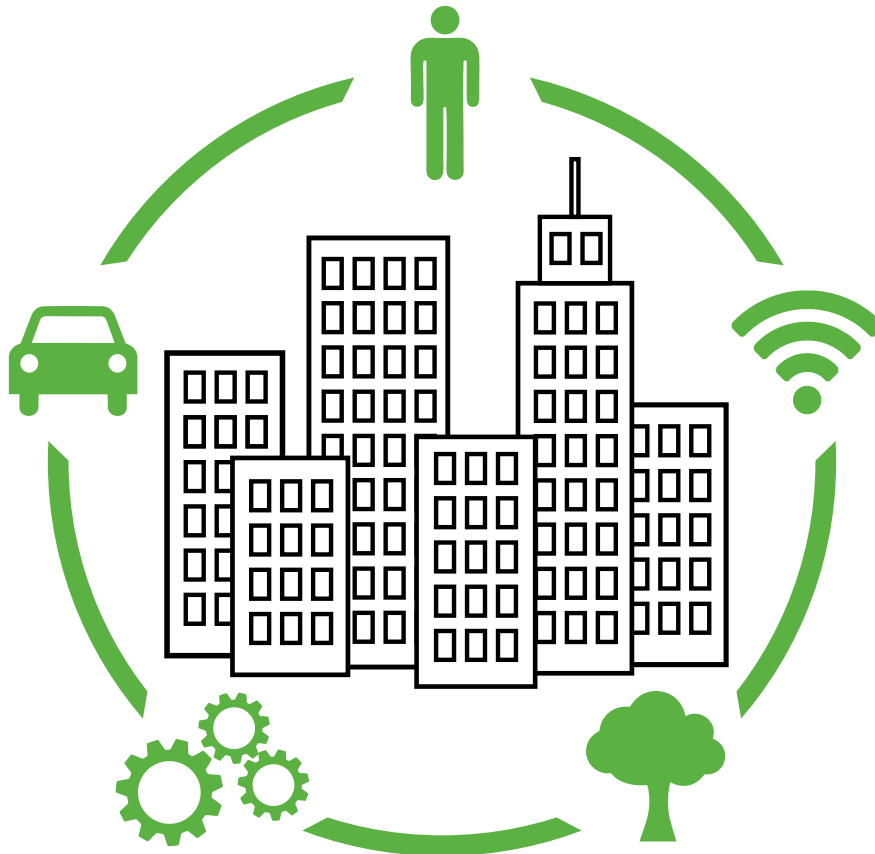


REAL CORP 2021

ACCEPTED ABSTRACTS

26th International Conference on Urban Planning and Regional Development in the Information Society
GeoMultimedia 2021



CITIES 20.50

CREATING HABITATS FOR THE 3RD MILLENNIUM
SMART – SUSTAINABLE – CLIMATE NEUTRAL

C O R P

Kompetenzzentrum für
Stadtplanung und Regionalentwicklung



Competence Center of
Urban and Regional Planning | www.corp.at



ISOCARP
Knowledge for Better Cities



IRUB

Institut für
Raumplanung,
Umweltplanung
und Bodenordnung

IBA Neues
WIEN soziales
Wohnen

 Federal Ministry
Republic of Austria
Climate Action, Environment,
Energy, Mobility,
Innovation and Technology

7-10 SEPTEMBER 2021, UNIVERSITY OF
NATURAL RESOURCES AND LIFE SCIENCES (BOKU)
VIENNA, AUSTRIA

www.corp.at

Special Call Urban Climate Adaptation Strategies and Affordability of Life

Age-friendly Urban Living Environment and Quality of Public Space (reviewed paper)

Nina Alisa Habe; *TU Graz, Institut für Städtebau; Graz, AT*
Aglaaé Degros; *TU Graz, Institut für Städtebau; Graz, AT*

Die städtebauliche Quartiersentwicklung – Bausteine zu für eine nachhaltige und zukunftsorientierte Stadtentwicklung (reviewed paper)

Thomas Eltner; *TU Dortmund - Fakultät Raumplanung, Fakultät Raumplanung; Dortmund, DE*

Energy Issues in Building and District Assessment Schemes and Benchmarking Systems (reviewed paper)

Matthias Haase; *Zurich University of Applied Sciences, Institute for Facility Management; Wädenswil, CH*

How to Make Existing Urban Structures Climate-Resilient? (reviewed paper)

Katrin Hagen; *TU Wien, Department of Landscape Architecture; Vienna, AT*
Tanja Tötzer; *AIT Austrian Institute of Technology; Vienna, AT*
Erik Meinharter; *PlanSinn Planung & Kommunikation GmbH; Vienna, AT*
Dietmar Millinger; *GREX IT services GmbH; Vienna, AT*
Matthias Ratheiser; *Weatherpark GmbH; Vienna, AT*
Susanne Formanek; *GRÜNSTATTGRAU Forschungs- und Innovations-GmbH; Vienna, AT*

Improvement of Human Thermal Comfort in Built Environment using BIM simulation methods, case study in Alexandria, Egypt (reviewed paper)

Omnia Kassab; *Faculty of Engineering, Alexandria University, Architectural Engineering Department; Alexandria, Egypt*
Omnia Kassab; *Faculty of Engineering, Alexandria University, Architectural Engineering Department; Alexandria, Egypt*
Omnia Kassab; *Faculty of Engineering, Alexandria University, Architectural Engineering Department; Alexandria, Egypt*

Integrierte Betrachtung einer nachhaltigen Wärme- und Kältebewirtschaftung von Stadtquartieren (reviewed paper)

Corinna Schittenhelm; *TU Kaiserslautern, Lehrstuhl Stadtplanung; Kaiserslautern, DE*
Detlef Kurth; *TU Kaiserslautern, Lehrstuhl Stadtplanung; Kaiserslautern, DE*

Optimizing A life Cycle Assessment – Based Design Method Towards Eco-Conscious Architecture (reviewed paper)

Mahmoud Gomaa; *Faculty of Engineering, Alexandria University, Architectural Department; Alexandria, Egypt*
Tarek Farghaly; *Faculty of Engineering, Alexandria University, Architectural Department; Alexandria, Egypt*
Zeyad Al Sayad; *Faculty of Engineering, Alexandria University, Architectural Department; Alexandria, Egypt*

Smart City and Affordable Housing (reviewed paper)

Luigi Mundula; *University of Cagliari, DICAAR; Cagliari, Italy*
Sabrina Auci; *University of Palermo; Palermo, Italy*

Towards Green Cities using Building Information Modelling: BIM as a Tool for Indoor Environmental Quality and Energy Efficiency (reviewed paper)

Ahmed Ali Shaban Abdelazim; *Faculty of engineering Alexandria university, Architecture; Alexandria, Egypt*
Mohamed Abdelaal; *Faculty of engineering Alexandria university, Architecture and Environmental Design ; Alexandria, Egypt*
Walied Mohamed; *Faculty of engineering Alexandria university, Architecture; Alexandria, Egypt*





Applied Urban Climatology: Assessments and Adaptation Measures across Spatial and Temporal Scales

Simon Tschannett; *Weatherpark GmbH*; Wien, AT
 Sebastian Kupski; *INKEK GmbH*; Lohfelden, DE
 Matthias Ratheiser; *Weatherpark GmbH*; Wien, AT
 Isabel Auer; *Weatherpark GmbH*; Wien, AT
 Magdalena Holzer; *Weatherpark GmbH*; Wien, AT

Housing the Extreme Income Poor: Delhi's Trials with Methods and Failures

Aditi Kashyap; *School of Planning and Architecture, New Delhi, Urban Design*; New Delhi, India

Smartes Wohnen für Generationen – wie Nachverdichtung Chancen für leistbares, altersgerechtes und klimafreundliches Wohnen bietet

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

Special Call EU Mission: Climate Neutral and Smart Cities

Densification of the Existing Urban Pattern: the Case Salzburg (reviewed paper)

Stefan Netsch; *Salzburg University of Applied Sciences, Smart City*; Kuchl, AT

Mobilitätswende in den Köpfen – interdisziplinäre Analyse zur Einleitung von Transformationsprozessen im Verkehrssystem (reviewed paper)

Barbara Laa; Vienna, AT
 Harald Frey; Vienna, AT
 Edeltraud Haselsteiner; Vienna, AT
 Lisa Danzer; Vienna, AT
 Peter Biegelbauer; Vienna, AT
 Thomas Friessnegg; Vienna, AT

Popping Up Public Streets – Not for Cars, but for People by Transformative Approaches (reviewed paper)

Michael Andreas Giesch; *University of Graz, Department of Geography and Regional Science*; Graz, AT
 Magdalena Senger; *University of Graz, Department of Geography and Regional Science*; Graz, AT
 Wolfgang Fischer; *University of Graz, Department of Geography and Regional Science*; Graz, AT

Rethinking Planning and Spatial Assessment from a Care Perspective (reviewed paper)

Lidewij Tummers; *CORRINA*; Rotterdam, NL
 Heidrun Wankiewicz; *Planwind*; Salzburg, AT

Smart City Developments in Graz: Coming up against the Limits of Planning (reviewed paper)

Eva Schwab; *Graz Technical University, Institute of Urbanism*; Graz, AT
 Jennifer Fauster; *Graz Technical University, Institute of Urbanism*; Graz, AT
 Nina Habe; *Graz Technical University, Institute of Urbanism*; Graz, AT
 Martina Majcen; *Graz Technical University, Institute of Urbanism*; Graz, AT

Tactical Interventions in Public Space – a City Use Case in Austria (reviewed paper)

Linda Dörrzapf; *TU Wien, MOVE*; Wien, AT
 Paul Achatz; *TU Wien, MOVE*; Wien, AT
 Martin Berger; *TU Wien, MOVE*; Wien, AT



Together we are Stronger – Examining Thematic and Procedural Entry Points for Multidisciplinary, Integral Spatial Planning Approaches to Confront Climate Change (reviewed paper)

Alexandra Jiricka-Pürrer; *Universität für Bodenkultur Wien, RALI/ ILEN; Vienna, AT*

Maria Juschten; *Universität für Bodenkultur, RALI; Vienna, AT*

Roswitha Weichselbaumer; *Universität für Bodenkultur, RALI ; Vienna, AT*

Florian Reinwald ; *Universität für Bodenkultur, RALI; Vienna, AT*

Urbane Klimaresilienz hat viele Farben (reviewed paper)

Sascha Henninger; *Technische Universität Kaiserslautern, Fachbereich Raum- und Umweltplanung, Physische Geographie; Kaiserslautern, DE*

The Future of Planning

Petra Hurtado; *American Planning Association, Research; Chicago, USA*

Special Call Integrated Spatial and Energy Planning

Can Gamification be Used for Spatial Energy Data Collection? Experiences Gained from the Development of the HotCity Game to Collect Urban Waste Heat Sources (reviewed paper)

Ernst Gebetsroither-Geringer; *AIT Austrian Institution of Technology, Center for Energy; Vienna, AT*

Thomas Wernbacher; *picapipe; Wien, AT*

Marko Göls; *DigitalSunray; Vienna, AT*

Ernst Meissner; *Grazer Energieagentur; Graz, AT*

Romana Stollnberger; *AIT Austrian Institution of Technology, Center for Energy; Vienna, AT*

Roman Geyer; *AIT Austrian Institution of Technology, Center for Energy; Vienna, AT*

Angelika Graf; *Grazer Energieagentur; Graz, AT*

Alexander Pfeiffer; *picapipe; Wien, AT*

Jakob Worster; *DigitalSunray; Vienna, AT*

Ralf-Roman Schmidt; *AIT Austrian Institution of Technology, Center for Energy; Vienna, AT*

Robin Friedrich; *AIT Austrian Institution of Technology, Center for Energy; Vienna, AT*

Charakteristika von Energiequartieren zur Erzeugung städtischen Stroms (reviewed paper)

Antonia Stratmann; *RWTH Aachen University, Institute for Urban Design; Aachen, DE*

Jannik Wendorff; *RWTH Aachen University, Institute for Urban Design; Aachen, DE*

Sarah Hermens; *RWTH Aachen University, Institute for Urban Design; Aachen, DE*

Managing Nature-Based Engineering Projects in Mountainous Region Incorporating Spatial Imaging and AI (reviewed paper)

Abhishek Tiwary; *De Montfort University, School of Engineering and Sustainable Development; LE91BH, UK*

Bhagawat Rimal; *College of Applied Sciences, Tribhuvan University; Kirtipur, Nepal*

Abbes Amira; *De Montfort University, Institute of Artificial Intelligence; LE1 9BH, UK*

Raumplanerische Steuerungsansätze für Photovoltaik-Freiflächenanlagen (reviewed paper)

Raffael Koscher; *ÖIR GmbH; Vienna, AT*





Special Call Cross-Border Spatial Development

The Parametric Design to Foster Cross-Border Governance (reviewed paper)

Annalisa Rollandi; *Politecnico di Milano, DASTU*; Milano, Italy

The Role of Zoning in Cross-Border Industrial Land Transition: Lessons from Tokyo Metropolitan Area (reviewed paper)

Ruiyi Zhang; *Keio University, Graduate School of Media and Governance*; Sagami-hara City, Kanagawa Pre., Japan
Wanglin Yan; *Keio University, Faculty of Environment and Information Studies*; Fujisawa City, Kanagawa Pre., Japan

Metropolitan Peripheries as New Urban Landscapes. Designing a Co-Creative Toolbox for the Integrated Development of the Vienna City Region

Flora Fessler; *MetroLab / CoCo architecture*; Wien, AT
Cédric Ramière; *MetroLab / CoCo architecture*; Cénac et Saint Julien, FR
Claudia Staubmann; *MetroLab / CoCo architecture*; Cénac et Saint Julien, FR
Mara Haas; *MetroLab / Superwien urbanism*; Wien, AT
Roland Krebs; *MetroLab / Superwien urbanism*; Wien, AT
Stefan Mayr; *MetroLab / Superwien urbanism*; Wien, AT

Special Call Covid-19 pandemic

A Prospective Approach for Cities in Transformation: Vision of the Leipzig Charter in the Light of the Covid-19 Experience (reviewed paper)

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

AScore – Developing a Cockpit for Regional Pandemic Management in Germany with Agent-Based Social Simulation (reviewed paper)

Martin Memmel; *Deutsches Forschungszentrum für Künstliche Intelligenz GmbH (DFKI), SmartCity Living Lab*; Kaiserslautern, DE
Jan Ole Berndt; *Deutsches Forschungszentrum für Künstliche Intelligenz GmbH (DFKI), Cognitive Social Simulation*; Trier, DE
Ingo Timm; *Deutsches Forschungszentrum für Künstliche Intelligenz GmbH (DFKI), Cognitive Social Simulation*; Trier, DE

Capturing Customer-Centred Functions of Local eCommerce Platforms (reviewed paper)

Tabea Fian; *Technische Universität Wien, Transportation System Planning (IVS)*; Wien, AT
Georg Hauger; *Technische Universität Wien, Transportation System Planning (IVS)*; Wien, AT
Martin Söllner; *Universität Wien, Sozialpsychologie und Konsumentenverhaltensforschung*; Wien, AT
Arnd Florack; *Universität Wien, Sozialpsychologie und Konsumentenverhaltensforschung*; Wien, AT
Isabel Lamotte; *Österreichischer Handelsverband*; Wien, AT

Cities after Crisis (reviewed paper)

Skender Kosumi; *TU Wien, Forschungsbereich Regionalplanung und Regionalentwicklung*; Wien, AT

Construction Automation: Post-Pandemic Integrated Robotized Construction Sites (reviewed paper)

Hazem Nessrina; *Faculty of engineering, Architecture*; Alexandria, Egypt
Fathi Amira A.; *Faculty of engineering, Architecture*; Alexandria, Egypt
F. Bakr Ali; *Faculty of engineering, Architecture*; Alexandria, Egypt



Gähnende Leere oder geschätzter Naherholungsraum? (tba) (reviewed paper)

Hanna Jäger; *Institut für Geographie und Geoökologie, Humangeographie*; Karlsruhe, DE

Smart Community Participatory Planning Process for Preparation of GIS based Master Plan in India
(reviewed paper)

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

Smarte Lösungen statt "Lockdown"? Der "Tübinger Weg" in der Corona-Pandemiebekämpfung auf dem Prüfstand (reviewed paper)

Thomas Wieland; *Karlsruher Institut für Technologie, Institut für Geographie und Geoökologie*; Karlsruhe, DE

The Effect of the Pandemic of the Use of Public Spaces in Hungary

László Jóna; *Közgazdaság- és Regionális Tudományi Kutatóközpont*; Budapest, Hungary

Special Call Sustainable Urbanisation Global Initiative: Food-Water-Energy Nexus

Assessing Urban Land-use Vulnerability to Potential Climate-change Impacts in Abuja City, Nigeria
(reviewed paper)

Mahmoud Ibrahim Mahmoud; *National Oil Spill Detection and Response Agency (NOSDRA), ICT GIS Department*; CBD, Abuja, Nigeria
Alfred Duker; *Kwame Nkrumah University of Science and Technology (KNUST), College of Engineering, Geometrics Engineering Department*; Kumasi, Ghana

Christopher Conrad; *University of Würzburg, Oswald-Külpe-Weg 86, 97074 Würzburg, Germany, Institute of Geography and Geology*; 97074 Würzburg, DE

Michael Thiel; *Julius-Maximilians-University of Würzburg, Institute of Geography and Geology*; 97074 Würzburg, DE

Halilu Shaba Ahmad; *National Space Research and Development Agency (NASRDA), Obasanjo Space Center, PMB 437, Garki, Abuja*; Abuja, Nigeria

Developing and Implementing the Design-led Nexus Approach for Sustainable Urbanisation (reviewed paper)

Wanglin Yan; *Keio University, Faculty of Environment and Information Studies*; Fujisawa, Japan

Developing Design Baseline to Reduce Urban Environmental Print in Food-Energy-Water Demand
(reviewed paper)

Shun Nakayama; *Keio University, Graduate School of Media and Governance*; Kanagawa, Japan

Wanglin Yan; *Keio University, Graduate School of Media and Governance*; Kanagawa, Japan

Will Galloway; *Ryerson University, Faculty of Engineering & Architectural Science*; Toronto, Canada

Development of the CityGML Food – Water - Energy Application Domain Extension (reviewed paper)

Rushikesh Padsala; *Hochschule für Technik*; Stuttgart, DE

Volker Coors; *Hochschule für Technik*; Stuttgart, DE

Evaluating CO2 Emissions Embodied in Food-Energy-Water Nexus by Input-Output Analysis in Tokyo
(reviewed paper)

Xujie Hu; *Keio University, Media and Governance*; Fujisawa City, Kanagawa Prefecture, Japan

Wanglin Yan; *Keio University, Media and Governance*; Fujisawa City, Kanagawa Prefecture, Japan





Introduction of Key Nexus Indicators to Assess the Urban Food-Water-Energy Nexus within the SUNEX Project (reviewed paper)

Ali Hainoun; *AIT Austrian Institute of Technology GmbH, Center of Energy*; Vienna, AT
Wolfgang Loibl; Vienna, AT
Ali Hainoun; Vienna, AT

Performance of Urban Agriculture in Tokyo: a Geospatial Perspective of Food-Water-Energy Nexus (reviewed paper)

Keidai Kishimoto; *Keio University, Graduate School of Media and Governance*; Fujisawa, Japan
Wanglin Yan; *Keio University, Faculty of Environment and Information Studies*; Fujisawa, Japan

Simulation and Analysis of Urban Green Roofs with Photovoltaic in the Framework of Water-Energy Nexus (reviewed paper)

Keyu Bao; *Hochschule für Technik Stuttgart, Center for Sustainable Energy Technology*; Stuttgart, DE
Daniela Thrän; *Helmholz Center for Environmental Research, Department of Bioenergy*; Leipzig, DE
Bastian Schröter; *Hochschule für Technik Stuttgart, Center for Sustainable Energy Technology*; Stuttgart, DE

Urban Land Use and Food Supply: the Example of Vienna (reviewed paper)

Lisa Kaufmann; *BOKU Vienna*; Vienna, AT
Barbara Smetschka; *BOKU Vienna*; Vienna, AT
Anna Kozłowska; *AIT*; Vienna, AT
Ernst Gebetsroither-Geringer; Vienna, AT

Urban Rooftop Uses: Competition and Potentials from the Perspective of Farming and Aquaponics – a Berlin Case Study (reviewed paper)

Gösta Baganz; *IGB Berlin*; Berlin, DE
Daniela Baganz; Berlin, DE
Werner Kloas; Berlin, DE
Frank Lohrberg; Aachen, DE

CITYFOOD – Upscaled Urban Aquaponics and the Food-Water-Energy Nexus

Gösta Baganz; *IGB Berlin, RWTH Aachen*; Berlin, DE
Manfred Schrenk; *BoKu*; Vienna, AT
Oliver Körner; *IGZ*; Großbeeren, DE
Daniela Baganz; *IGB*; Berlin, Germany,
Simon Goddek; *WUR*; Wageningen, The Netherlands
Karel Keesman; *WUR*; Wageningen, The Netherlands
Zorina Ziscan; *ASEM*; Chişinău, Moldova
Alexandra Doerberg; *ZALF*; Müncheberg, Germany,
Hendrik Monsees; *IGB*; Berlin, Germany,
Thomas Nehls; *TU*; Berlin, Germany,
Werner Kloas; *IGB, HU*; Berlin, DE
Frank Lohrberg; *RWTH*; Aachen, Germany,

Stakeholder-supported Research on the Food-Water-Energy Nexus in 3 International Case Studies

Ursula Pietzsch; *Hochschule für Technik Stuttgart, Zentrum für nachhaltige Energietechnik*; Stuttgart, DE
Rushikesh Padsala; *Hochschule für Technik Stuttgart*; Stuttgart, DE
Keyu Bao; *Hochschule für Technik*; Stuttgart, DE
Volker Coors; *Hochschule für Technik*; Stuttgart, DE

Urban Living Labs as a Driver for Sustainable Food-Water-Energy Innovations

Tamara Mitrofanenko; Vienna, AT
Andreas Muhar; Vienna, AT
Kim Ressar; Vienna, AT
Thomas Schuppenlehner; Vienna, AT



Climate Adaption and Mitigation

City Afoot – What the State-of-the-Art Walkable City Looks Like (reviewed paper)

Susanne Tobisch; *TU Wien, Institute of Urban Design; Wien, AT*
Angelika Psenner; *TU Wien, Institute of Urban Design; Wien, AT*

Climate Proofing Spatial Planning Policies in Austria – Case Studies and Findings (reviewed paper)

Petra Hirschler; *TU Wien, Institut für Raumplanung; Wien, AT*
Daniel Shams; *TU Wien, Institut für Raumplanung; Wien, AT*
Anna Kalhorn; *TU Wien, Institut für Raumplanung; Wien, AT*
Hartmut Dumke; *TU Wien, Institut für Raumplanung; Wien, AT*

Designing Waste Management Systems in the City of Tomorrow (reviewed paper)

Marielis Padilla; *Fraunhofer IAO, Fraunhofer IAO; Stuttgart, DE*
Rohit Sheoran; *Fraunhofer IAO, Fraunhofer IAO; Stuttgart, DE*
Kavyashree Swamigowda; *Fraunhofer IAO, Fraunhofer IAO; Stuttgart, DE*

Integration of Multi-dimensional Rural and Urban Planning Efforts for Achieving SDG 13 – Indian Context (reviewed paper)

Piyali Bandyopadhyay; *Central Pollution Control Board, Central Pollution Control Board; New Delhi, India*

Synergies and Co-Benefits of Climate-oriented Planning in "Street Open Space" – Urban Renewal as a Driver (reviewed paper)

Yu-hsin Tsai; *National Chengchi University, Department of Land Economics; Taipei, Taiwan*
Chia-Hsin Hsu; *Taipei, Taiwan*
Chia-Ching Lin; *Taipei, Taiwan*

The Heat is on – Hitzestress im Alten Schlachthof Karlsruhe (reviewed paper)

Peter Zeile; *Karlsruhe Institute of Technology, Neighbourhoodplanning; Karlsruhe, DE*
Matthias Burgbacher; *Karlsruhe Institute of Technology, Neighbourhoodplanning; Karlsruhe, DE*
Markus Neppel; *Karlsruhe Institute of Technology, Neighbourhoodplanning; Karlsruhe, DE*

Regionalplanerische Festlegungen zur Eigenentwicklung und ihr Beitrag zum Klimaschutz

Daniela Briegel; *Technische Universität Kaiserslautern, Lehrstuhl Regionalentwicklung und Raumordnung; Kaiserslautern, DE*
Kirsten Mangels; *Technische Universität Kaiserslautern, Lehrstuhl Regionalentwicklung und Raumordnung; Kaiserslautern, DE*

Environmental Challenges

Urbanism to Riverism Planning Strategy for Climate Resilient Cosmic Sacret City in India-Varanasi (reviewed paper)

Sanhita Bandyopadhyay; *Freelancer, Environment; Gurgaon, India*
Bikram Dutta; *L&T, Pre Construction; Gurgaon, India*





Emergencies, Disasters, Epidemics

Categorizing Urban Structural Types using an Object-Based Local Climate Zone Classification Scheme in Medellín, Colombia (reviewed paper)

Marlene Kühnl; *Company for Remote Sensing and Environmental Research (SLU)*; München, DE
Marta Sapena; *German Aerospace Center (DLR), German Remote Sensing Data Center (DFD)*; Wessling, DE
Hannes Taubenböck; *German Aerospace Center (DLR), German Remote Sensing Data Center (DFD)*; Wessling, DE

Die Corona-Pandemie – Trendbeschleuniger und Weckruf für die Innenstädte (reviewed paper)

Martina Stepper; *TU Kaiserslautern, Lehrstuhl Stadtplanung*; Kaiserslautern, DE

How COVID Affects Decision Making in Planning? The Use of ICT in Planning Boards' Hearings (reviewed paper)

Nir Mualam; *Technion- Israel Institute of Technology, Faculty of Architecture & Town Planning*; Haifa, Israel

Post-Earthquake Quality of Life: Assessing the Bam Recovery Process (reviewed paper)

Homa Masoumi; *Shahid Beheshti University, Urban and Regional planning*; Tehran, Iran
Behzad Malekpour asl; *Shahid Beheshti University, Urban and Regional planning*; Tehran, Iran
Sharif Mottavaf; *Shahid Beheshti University, Urban and Regional planning*; Tehran, Iran

Temporary Urban Pop-Up Environments – Design Requirements and Sustainable Solutions (reviewed paper)

Doris Oesterreicher; *Universität für Bodenkultur Wien, Institut für Raumplanung, Umweltplanung und Bodenordnung*; Wien, AT
Stefan Geier; *Universität für Bodenkultur Wien, Institut für Raumplanung, Umweltplanung und Bodenordnung*; Wien, AT
Gaetano Bertino; *alchemia nova*; Wien, AT
Tatjana Fischer; *Universität für Bodenkultur Wien, Institut für Raumplanung, Umweltplanung und Bodenordnung*; Wien, AT

The Effects of City Fabric on Urban Strategies in Pandemic Time – Case Study Rome City (Italy) (reviewed paper)

Negar Isa Kakroodi; *personal atelier*; Noshahr, Iran

Growing Flood Risk in Areas with Lower Flood Hazard – Spatial Planning Options to Address this Challenge

Lena Junger; *BOKU, IRUB*; Wien, AT
Walter Seher; *BOKU, IRUB*; Wien, AT

Welfare, Social Justice, Environmental Justice, Spatial Justice

Assessing the Efficacy of Spatial Planning and Development System in Improving Living Conditions of the Society (reviewed paper)

Isaac Tsholofelo Tabane; *University of Johannesburg, Urban and Regional Planning*; Johannesburg, South Africa
Trynos Gumbo; *University of Johannesburg, Urban and Regional Planning*; Johannesburg, South Africa
Themban Moyo; *University of Johannesburg, Urban and Regional Planning*; Johannesburg, South Africa
Zenzile Mbinza; *University of Johannesburg, Urban and Regional Planning*; Johannesburg, South Africa



Investigation of the State of Spatial Transformation Policy and Practice: Lessons from the City of Johannesburg (reviewed paper)

Mueletshedzi Helen Phosho; *University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa*
Trynos Gumbo; *University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa*
Thembanani Moyo; *University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa*
Eric Makoni; *University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa*

Patterns and Practices of Spatial Transformation: a Historical Review of Approaches (reviewed paper)

Mueletshedzi Helen Phosho; *University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa*
Trynos Gumbo; *University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa*
Thembanani Moyo; *University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa*
Eric Makoni; *University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa*

Spatial Planning and Development Systems: a Historical Review of Approaches, their Recent Revival, and an Overview of the State of the Art (reviewed paper)

Isaac Tsholofelo Tabane; *University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa*
Trynos Gumbo; *University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa*
Thembanani Moyo; *University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa*
Zenzile Mbinza; *University of Johannesburg, University of Johannesburg; Johannesburg, South Africa*

Upscaling “Building Culture” to a Regional Level in Römerland Carnuntum (Lower Austria) (reviewed paper)

Hartmut Dumke; *TU Wien, Institute for Spatial Planning, Research Unit of Regional Planning and Regional Development; Wien, AT*
Daniel Youssef; *TU Wien, Institute for Spatial Planning, Research Unit of Regional Planning and Regional Development; Wien, AT*

Developing Cultural Heritage Plan in Response to Future Challenges: Case of Lamu-Town World Heritage Site, Kenya

Maryam Mohamed; *Alexandria University, Architectural Engineering; Alexandria, Egypt*
Hassan Abdul-Salam; *Alexandria University, Architectural Engineering; Alexandria, Egypt*
Ali Bakr; *Alexandria University, Architectural Engineering; Alexandria, Egypt*

Innovation and Competitiveness

CRISALIDE decision support system for urban development: from idea to implementation. Rostov-on-Don, Russia (reviewed paper)

Elena Batunova; *Politecnico di Milano, DASTU; Milan, Italy*
Sergey Thrukhachev; *Southern Urban Planning Center, Southern Urban Planning Center; Rostov-on-Don, Russia*
Pietro Elisei; *EU UIA Programme International Expert; Bucharest, Romania*
Manfred Schrenk; *CORP – Consulting Research Projects DI Manfred Schrenk KG; Schwechat, AT*
Elena Khiteva; *Southern Urban Planning Center, Southern Urban Planning Center; Rostov-on-Don, Russia*
Miruna Draghia; *EU Projects Director at Urbasofia; Bucharest, Romania*
Oksana Smirnova; *SPIIRAS - Hi Tech Research and Development Office Ltd.; St. Petersburg, Russia*
Vasily V. Popovich; *SPIIRAS – Hi Tech Research and Development Office Ltd; St. Petersburg, Russia*
Vasile Meita; *INCD URBAN-INCERC General Director; Bucharest, Romania*
Antonio-Valentin Tache; *INCD URBAN-INCERC, URBANPROIECT branch; Bucharest, Romania*
Oana-Catalina Popescu; *INCD URBAN-INCERC, URBANPROIECT branch; Bucharest, Romania*





Sustainable Development in The Healthcare Enterprises Management Through BIM And FM Interaction Based on a Holistic Aspect Structure (reviewed paper)

Seyed Reza Hosseini Raviz; *NTNU: Norwegian University of Science and Technology, Department of Computer Science; Trondheim, Norway*
Sobah Abbas Petersen; *Trondheim, Norway*

Text-based Discussion Environment Using a Discussion Support System Enhances Participants' Engagement at International e-Conference (reviewed paper)

Jawad Haqbeen; *Nagoya Institute of Technology, Department of Computer Science; Nagoya, Japan*
Sofia Sahab; *Kyoto University, Department of Social Informatics; Kyoto, Japan*
Takayuki Ito; *Kyoto University, Department of Social Informatics; Kyoto, Japan*

What makes a Participative Tool to Gather more Sample Views? Discussion with Supportive means for Mutual Benefit (reviewed paper)

Sofia Sahab; *Kyoto University, Department of Social Informatics; Kyoto, Japan*
Jawad Haqbeen; *Nagoya Institute of Technology, Department of Computer Science; Nagoya, Japan*
Ito Takayuki; *Kyoto University, Department of Social Informatics; Kyoto, Japan*

Competences of Smart City Planners: the Alpha and Omega

Hans Rüdiger Kaufmann; *University of Applied Management Studies; Mannheim, DE*
Dolores Sanchez Bengoa; *University of Applied Management Studies; Mannheim, DE*
Henning Tirrel; *University of Nicosia; Nicosia, Cyprus*
Mohammad Fateh Ali Khan Panni; *BAC International Study Centre; Dhaka, Bangladesh*

Urban Lifestyles

Assessing the Impacts of Urban Determinants on Physical Activity Engagement: An Applied Study on Residents of Alexandria City, Egypt (reviewed paper)

Dina Farag; *Faculty of Engineering, Alexandria University, Architectural Department; Alexandria, Egypt*
Hany Ayad; *Faculty of Engineering, Alexandria University, Architectural Department; Alexandria, Egypt*
Dina Saadallah; *Faculty of Engineering, Alexandria University, Architectural Department; Alexandria, Egypt*

Enhancing Identity through Streetscape Composition (reviewed paper)

Sondos Fouda; *University of Alexandria, Department of Architecture; Alexandria, Egypt*
Tarek Farghaly; *University of Alexandria, Department of Architecture; Alexandria, Egypt*
Hany Ayad; *University of Alexandria, Department of Architecture; Alexandria, Egypt*

Gründerzeitliche Innenhöfe als Ressource zur Verbesserung des Mikroklimas (reviewed paper)

Petra Kubin; *TU Graz; Hart bei Graz, AT*

Streetscape Design Elements Approach as a Tool for Urban Soundscape Enhancement A Perspective from Ahmed Oraby Square, Alexandria, Egypt (reviewed paper)

Amira Elmahdy; *Pharose Univrsity in Alexandria city, Architecture ; Alexandria, Egypt*
Ali Bakr; *Pharose Univrsity in Alexandria city, Pharose Univrsity in Alexandria city; Alexandria, Egypt*
Amira Fathy; *Alexandria, Egypt*

The Liveable Life in Slums (reviewed paper)

Neele Eicker; *Hafen City Universität; Hamburg, DE*



Urbanisation and Tourism: A Linkage of Climate-Friendly Transportation (reviewed paper)

Amphai Wejwithan; Bangkok, Thailand
Hermann Knoflacher; Vienna, AT
Helga Kromp Kolb; Vienna, AT
Hansruedi Müller; Bern, Switzerland
Tanawan Sintunawa; Nakornphatom, Thailand

Assessment of Intra-City Urban Heat Island Effect with Respect to Urban Form via LCZ Classification, Land Surface Temperature and Traverse Surveys – the Case of the City of Karachi, Pakistan

Marina Khan; Glostrup, Denmark

Once Upon a Time

Lineu Castello; *Federal University of Rio Grande do Sul, Propark/Postgraduate Program in Architecture*; Porto Alegre, Brazil

Real Estate Development and Settlement Patterns

Does the New Silk Road Increase Urbanization? Spatio-Temporal Analysis using Remote Sensing Data (reviewed paper)

Salim Soltani; *Julius-Maximilians-Universität Würzburg, Institute for Geography and Geology*; Würzburg, DE
Henri Debray; *German Aerospace Center (DLR), EOC*; Weßling, DE
Xiao Xiang Zhu; *German Aerospace Center (DLR), EOC*; Weßling, DE
Hannes Taubenböck; *German Aerospace Center (DLR), EOC*; Weßling, DE

Methods for Regrouping Economic Activities into Meaningful Clusters (reviewed paper)

Sophie De Mulder; Brussel, Belgium
Jan Zaman; Brussels, Belgium
Geert Van Haute; Brussels, Belgium

Nachhaltige urbane Gewerbeflächen – ein internationaler Vergleich (reviewed paper)

Sarah C. Schreiner; *Urban Research and Development*; Hamburg, DE

Spatial Trends of Adaptive Reuse Projects: Challenges and Opportunities for Developing Cities (reviewed paper)

Them bani Moyo; *University of Johannesburg, University of Johannesburg*; Johannesburg, South Africa
Trynos Gumbo; *University of Johannesburg, University of Johannesburg*; Johannesburg, South Africa
Ouwaiyi Oniya; *University of Johannesburg, University of Johannesburg*; Johannesburg, South Africa
Siphwe Given Mbatha; *University of Johannesburg, University of Johannesburg*; Johannesburg, South Africa

The Role of the Public Municipality in Urban Regeneration: the Case of Genoa (reviewed paper)

Giampiero Lombardini; *University of Genova, Dipartimento Architettura e Design*; Genova, Italia
Beatrice Moretti; *University of Genova, Dipartimento Architettura e Design*; Genova, Italia
Matilde Pitanti; *University of Genova, Dipartimento Architettura e Design*; Genova, Italia

Types of Morphological Configurations of the City – a Remote Sensing based Approach (reviewed paper)

Henri Debray; *German Aerospace Center (DLR), EOC*; Weßling, DE
Chunping Qiu; *Technical University Munich, Munich, Signal Processing in Earth Observation*; Munich, DE
Michael Schmitt; *Munich University of Applied Sciences, Department of Geoinformatics*; Munich, DE
Yuanyuan Wang; *German Aerospace Center (DLR), EOC*; Munich, DE
Xiao Xiang Zhu; *Technical University Munich, Munich, Signal Processing in Earth Observation*; Munich, DE
Hannes Taubenböck; *German Aerospace Center (DLR), EOC*; Munich, DE





Change Communication als Instrument für erfolgreiches Anrainermanagement im Rahmen von nachhaltigen Betriebsansiedlungen am Beispiel Oberösterreich

Harald Jarzombek; *Business Upper Austria – OÖ Wirtschaftsagentur GmbH*; Linz, AT
 Juliane Gasser;
 Sonja Mooseder-Spelitz;
 Tanja Spennlingwimmer;

Transportation and Mobility

Assessment of the Quality of Urban Spaces in the Context of Child-friendly Mobility (reviewed paper)

Juliane Stark; *University of Natural Resources and Life Sciences, Institute for Transport Studies*; Vienna, AT
 Herbert Neuhauser; *STRABAG AG, Building Construction and Civil Engineering Austria*; Vienna, AT

Country Roads – Take Me Home? (reviewed paper)

Andreas Thinius; *traxventure research gGmbH*; Hamburg, DE

Cycle4Value: a Token-based Incentive System to Promote Cycling (reviewed paper)

Thomas Wernbacher; *Danube University Krems, Center for Applied Game Studies*; Krems, AT
 Alexander Pfeiffer; *Danube University Krems*; Krems, AT
 Alexander Seewald; *Seewald Solutions*; Weißkirchen an der Traun, AT
 Mario Platzer; *yVerkehrsplanung*; Graz, AT
 Dietmar Hofer; *Bike Citizens*; Graz, AT
 Mihai Ghete; *Bike Citizens*; Graz, AT

Exploring 4IR Technologies as a Solution to Improve the Traffic Flow on the Roads: a Case of the City of Johannesburg (reviewed paper)

Siphiwe Mbatha; *University of Johannesburg, Urban and Regional Planning*; Johannesburg, Republic of South Africa
 Trynos Gumbo; *University of Johannesburg, Urban and Regional Planning*; Doornfontein, Republic of South Africa
 Ouyweni Oniya; *University of Johannesburg, Urban and Regional Planning*; Doornfontein, Republic of South Africa
 Themban Moyo; *University of Johannesburg, Urban and Regional Planning*; Doornfontein, Republic of South Africa

Finding Suitable Measures for Mobility Behaviour Change (reviewed paper)

Johanna Schmitt; *Research Studios Austria FG - iSPACE*; Salzburg, AT
 Anna Butzhammer; *Research Studios Austria FG - iSPACE*; Salzburg, AT
 Dagmar Lahnsteiner; *Research Studios Austria FG - iSPACE*; Salzburg, AT
 Thomas Prinz; *Research Studios Austria FG - iSPACE*; Salzburg, AT

ICT Usage to Improve Efficiency in the City of Johannesburg Public Transportation System (reviewed paper)

Siphiwe Mbatha; *University of Johannesburg, Urban and Regional Planning*; Doornfontein, Republic of South Africa
 Trynos Gumbo; *University of Johannesburg, Urban and Regional Planning*; Doornfontein, Republic of South Africa
 Ouyweni Oniya; *University of Johannesburg, Urban and Regional Planning*; Doornfontein, Republic of South Africa
 Themban Moyo; *University of Johannesburg, Urban and Regional Planning*; Doornfontein, Republic of South Africa

Ist der Onlinehandel Wettbewerbstreiber oder gar "Rettungsanker" für unsere Städte? Eine modellgestützte Analyse der Determinanten des Einkaufsverhaltens im Multi- und Cross-Channel-Kontext (reviewed paper)

Thomas Wieland; *Karlsruher Institut für Technologie, Institut für Geographie und Geoökologie*; Karlsruhe, DE

Mobility in Metropolitan and Peripheral Regions – an Educational Simulation Game (reviewed paper)

Juliane Stark; *University of Natural Resources and Life Sciences, Institute for Transport Studies; Vienna, AT*
Lukas Hartwig; *University of Natural Resources and Life Sciences, Institute for Transport Studies; Vienna, AT*
Paul Pfaffenbichler; *University of Natural Resources and Life Sciences, Institute for Transport Studies; Vienna, AT*

Mobility Inequality in a Small Town in Central Poland. The Case Study of Zgierz (reviewed paper)

Bartłomiej Olczak; *Lodz University of Technology, Institute of Architecture and Town Planning; Zgierz, Polska*

Radfahren auf realen und virtuellen Flächen – Das NRVP-Projekt Cape Reviso (reviewed paper)

Peter Zeile; *Karlsruhe Institute of Technology, Neighbourhoodplanning; Karlsruhe, DE*
Thomas Obst; *High Performance Computing Center Stuttgart HLRS, Vizualisation; Stuttgart, DE*
Fabian Dembski; *High Performance Computing Center Stuttgart HLRS, Vizualisation; Stuttgart, DE*
Johanna Drescher; *Allgemeiner Deutscher Fahrrad-Club e.V. (ADFC), Bundesgeschäftsstelle; Berlin, DE*
Oezlem Cinar; *Karlsruhe Institute of Technology, Professur Stadtquartiersplanung; Karlsruhe, DE*
Uwe Woessner; *High Performance Computing Center Stuttgart HLRS, Vizualisation; Stuttgart, DE*

Sicherheitsempfinden im öffentlichen Verkehr in Zeiten von COVID-19 (reviewed paper)

Tabea Dietrich; *Fraunhofer IAO, Mobility Ecosystems; Stuttgart, DE*
Sonja Stöffler; *University of Stuttgart IAT, Mobility Ecosystems; Stuttgart, DE*

Spatial Patterns, Economic Distribution and Envisioned Mobility Innovations: A Case of Johannesburg, South Africa (reviewed paper)

Brightnes Risimati; *University of Johannesburg, Urban and Regional Planning; Doornfontein, City of Johannesburg, South Africa*
Trynos Gumbo; *University of Johannesburg, Urban and Regional Planning; Doornfontein, Johannesburg, South Africa*
James Chakwizira; *University of Venda, Urban and Regional Planning; Thohoyandou, South Africa*

Subjektiven Verkehrsstress objektiv messen – ein EmoCycling-Mixed-Methods-Ansatz (reviewed paper)

Jule Stephanie Merk; *Hochschule Karlsruhe Technik und Wirtschaft, IMM; Karlsruhe, DE*
Jochen Eckart; *Hochschule Karlsruhe Technik und Wirtschaft, Professur Verkehrsökologie; Karlsruhe, DE*
Peter Zeile; *Karlsruhe Institute of Technology, Professur Stadtquartiersplanung; Karlsruhe, DE*

Telecommunication and Travel Behaviour of Households in the Rural Areas of Nigeria: Substitution, Complementarity or Trip Inducement (reviewed paper)

Oluwayemi-Oniya Aderibigbe; *University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa*
Trynos Gumbo; *University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa*
Themban Moyo; *University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa*
Siphiwe Mbatha; *University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa*

Wie können öffentliche E-Ladestationen sozial fair positioniert werden? Eine Analyse der Aktivitätsmuster und potenziellen Ladevorgänge von Frauen und Personen mit niedrigem Einkommen (reviewed paper)

Christian Joachim Gruber; *Joanneum Research, LIFE; Graz, AT*
Maria Schweighart; *Joanneum Research, LIFE; Graz, AT*
Sebastian Seebauer; *Joanneum Research, LIFE; Graz, AT*
Samuel Felbermair; *Salzburger Verkehrsverbund GmbH; Salzburg, AT*

Facilitating Transit Oriented Development in the Purple Line Corridor: The Plans and Regulations Information Tool

Gerrit Knaap; *University of Maryland, National Center for Smart Growth; College Park, USA*
Cyrus Chimento; *University of Maryland, National Center for Smart Growth; College Park, USA*
Nicholas Finio; *University of Maryland, National Center for Smart Growth; College Park, USA*
Lewis Hopkins; *University of Illinois at Urbana-Champaign, Urban and Regional Planning; Urbana, USA*





Flexible Bike Parking: New Ways of Thinking Bicycle Racks

Gosia Stawecka; *StadtLABOR Innovationen für urbane Lebensqualität GmbH*; Graz, AT
 Magdalena Bürbaumer; *Vienna University of Technology*; Wien, AT
 Christian Zeitelhofer; *Vienna University of Technology*; Wien, AT
 Christoph Wöss; *INNOVAMETALL Stahl- & Metallbau GmbH*; Linz, AT
 Karlheinz Gürtl; *StadtLABOR Innovationen für urbane Lebensqualität GmbH*; Graz, AT
 Paul Brugner; *StadtLABOR Innovationen für urbane Lebensqualität GmbH*; Graz, AT

Mobility Measures for Residential Buildings in Urban Areas – a Promising Investment?

Jonas Krombach; *Rosinak & Partner ZT GmbH*; Vienna, AT
 Andrea Weninger; *Rosinak & Partner ZT GmbH*; Vienna, AT
 Regine Gerike; *Technische Universität Dresden, "Friedrich List" Faculty of Transport and Traffic Sciences, Chair of Integrated Transport Planning and Traffic Engineering*; Dresden, DE
 Caroline Koszowski; *Technische Universität Dresden, "Friedrich List" Faculty of Transport and Traffic Sciences, Chair of Integrated Transport Planning and Traffic Engineering*; Dresden, DE

Quantifying the Benefits of Sustainable Transport for the Urban Economy

Wolfgang Rauh; *previously ÖBB-Holding and VCÖ, now retired*; Wien, AT

Raumansprüche für E-Ladeinfrastruktur im öffentlichen Raum dicht bebauter Stadtquartiere

Ulrich Bergmann; *verkehrplus Prognose Planung und Strategieberatung GmbH*; Graz, AT
 Linda Seyfried; *verkehrplus Prognose Planung und Strategieberatung GmbH*; Graz, AT
 Viktoria Kofler; *verkehrplus Prognose Planung und Strategieberatung GmbH*; Graz, AT

(Re-)Integration of Inner-City Highways in the Urban Fabric

Johannes Bernsteiner; *TU Graz, Urban Planning*; Kartitsch, AT

Seamless Distributed Traffic Monitoring by Distributed Acoustic Sensing (DAS) using existing Fiber Optic Cable Infrastructure

Martin Litzberger; *AIT Austrian Institute of Technology GmbH, Center for Digital Safety and Security*; Wien, AT
 Carmina Coronel; *AIT Austrian Institute of Technology GmbH, Center for Digital Safety and Security*; Wien, AT
 Katharina Bajic; *AIT Austrian Institute of Technology GmbH, Center for Digital Safety and Security*; Wien, AT
 Christoph Wiesmeyr; *AIT Austrian Institute of Technology GmbH, Center for Digital Safety and Security*; Wien, AT
 Herbert Döllner; *Dr. Döllner Vermessung ZT GmbH*; Wien, AT
 Hans-Bernhard Schweiger; *Dr. Döllner Vermessung ZT GmbH*; Wien, AT
 Gaëtan Calbris; *Febus-Optics*; Pau, FR

Energy: Extraction, Consumption, Distribution/Storage, Management

Urban Data Model for Integrated City Energy Planning (reviewed paper)

Lisa-Marie Fochler; *Institut of Thermal Engineering*; Graz, AUT
 Hermann Edtmayer; *Institut of Thermal Engineering*; Graz, AUT
 Thomas Mach; *Institut of Thermal Engineering*; Graz, AUT

Public Space, Blue-Green Infrastructure

Can Church Gardens Represent a Valuable Recreation Alternative in Cities? (reviewed paper)

Diana Andreea Onose; *University of Bucharest, CCMESI; Bucharest, Romania*
Ioan Cristian Iojă; *University of Bucharest, CCMESI; Bucharest, Romania*
Andreea Raluca Slave; *University of Bucharest, CCMESI; Bucharest, Romania*
Simona Raluca Grădinaru; *University of Bucharest, CCMESI; Bucharest, Romania*
Athanasios Alexandru Gavrilidis; *University of Bucharest, CCMESI; Bucharest, Romania*
Ana-Maria Popa; *University of Bucharest, CCMESI; Bucharest, Romania*

Open Space in Densification Projects: An Approach to Define Different Typologies (reviewed paper)

Stefan Netsch; *Salzburg University of Applied Sciences, Smart City; Kuchl, AT*

Städtische Angsträume – Analyse zur Steigerung der gendergerechten Stadtplanung für mehr Sicherheit bei Nacht (reviewed paper)

Jennifer Krauß; *Universität Stuttgart IAT, Urban Governance Innovation; Stuttgart, DE*
Edith Schwimmer; *Universität Stuttgart IAT, Building Culture Innovation; Stuttgart, DE*

The Influence of Users' Socio-Economic Background on the Perception and Involvement of Urban Spaces (reviewed paper)

Menatallah Osman; *Alexandria University, Faculty of Engineering, Architectural Department; Alexandria, Egypt*
Hassan Abdel-Salam; *Alexandria University, Faculty of Engineering, Architectural Department; Alexandria, Egypt*
Dina Saadallah; *Alexandria University, Faculty of Engineering, Architectural Department; Alexandria, Egypt*

Transformation öffentlicher urbaner Räume als Prozess: Fallstudien von Verkehrsversuchen aus der Planungspraxis (reviewed paper)

Paul Achatz; *Wien, AT*

Urban Trees in Munich – Detection, Delineation, Quantification, and Characterisation based on VHR Remote Sensing (reviewed paper)

Tobias Leichtle; *German Aerospace Center (DLR), Geo-Risks and Civil Security; Wessling, DE*
Markus Zehner; *German Aerospace Center (DLR), Geo-Risks and Civil Security; Wessling, DE*
Marlene Kühnl; *Company for Remote Sensing and Environmental Research (SLU); Munich, DE*
Klaus Martin; *Company for Remote Sensing and Environmental Research (SLU); Munich, DE*
Hannes Taubenböck; *German Aerospace Center (DLR), Geo-Risks and Civil Security; Wessling, DE*

Optimizing Superhighway Development Planning to Minimize Threats on Tropical Forest Conservation and Attaining SDGs in Equatorial Africa

Mahmoud Ibrahim Mahmoud; *National Oil Spill Detection and Response Agency (NOSDRA), ICT GIS Department; CBD, Abuja, Nigeria*
William F. Bill Laurance; *James Cook University, Cairns Australia, Centre for Tropical Environmental and Sustainability Science, College of Science and Engineering, James Cook University, Cairns, Queensland 4878,; Cairns, Australia*

Syncity – Synergetic Cities for Europe

Heidi Dumreicher; *OIKODROM - The Vienna Institute for Urban Sustainability; Vienna, AT*
Bettina Kolb; *Vienna, AT*
Michelle Prem; *Vienna, AT*

The Possibility of Qualifying the Courtyards of Religious Buildings as Open Public Spaces: a Case Study of the City of Brčko

Slobodan Bulatović; *University of Belgrade, Faculty of architecture, Department for urbanism; Brčko, Bosnia and Herzegovina*
Eva Vaništa Lazarević; *University of Belgrade, Faculty of architecture, Department for urbanism; Belgrade, Serbia*
Jelena Marić; *University of Belgrade, Faculty of architecture, Department for urbanism; Belgrade, Serbia*





Technological Innovation and its Impact on Cities

An Integrated Assessment and Decision Support System based on Virtuality of Urban Cities: Analysis of Smart Utopia City of Alexandria for the Urban Future (reviewed paper)

Applying 3D Printing as a New Building Technology (reviewed paper)

Amr Alaa El-din; *Faculty of Engineering, Alexandria University, Department of Architecture and Urban Planning; Alexandria, Egypt*
 Mohamed Ibrahim; *Faculty of Engineering, Alexandria University, Department of Architecture and Urban Planning; Alexandria, Egypt*
 Zeyad El Sayed.; *Faculty of Engineering, Alexandria University, Department of Architecture and Urban Planning; Alexandria, Egypt*

Co-Evolution von Stadtsystemen: Ansatz einer technologieoffenen Stadtentwicklung (reviewed paper)

Steffen Braun; *Fraunhofer-Gesellschaft, Stadtsystem-Gestaltung; Stuttgart, DE*

Die Wohnungswirtschaft als Smart-City-Baustein (reviewed paper)

Benjamin Allbach; *GBG - Mannheimer Wohnungsbaugesellschaft mbH; Mannheim, DE*

Different or Alike? Motivation to Participate and Social Influence in Online Discussions by Age and Gender (reviewed paper)

Sofia Sahab; *Kyoto University, Department of Social Informatics; Kyoto, Japan*
 Jawad Haqbeen; *Nagoya Institute of Technology, Department of Computer Science; Nagoya, Japan*
 Ito Takayuki; *Kyoto University, Department of Social Informatics; Kyoto, Japan*

KI-gestützter Wordcloud-Generator für Beteiligungsprozesse (reviewed paper)

Axel Häusler; *Technische Hochschule Ostwestfalen-Lippe, Forschungsschwerpunkt nextPlace; Detmold, DE*
 Carsten Oldenburg; *Technische Hochschule Ostwestfalen-Lippe, Forschungsschwerpunkt nextPlace; Detmold, DE*

Machine Learning for Land Use Scenarios and Urban Design (reviewed paper)

Daniel Podrasa; *Karlsruhe Institute of Technology, Neighbourhoodplanning; Karlsruhe, DE*
 Peter Zeile; *Karlsruhe Institute of Technology, Neighbourhoodplanning; Karlsruhe, DE*
 Markus Neppl; *Karlsruhe Institute of Technology, Neighbourhoodplanning; Karlsruhe, DE*

New Technologies for Participatory Planning: Between Parametric Design and Brand Urbanism (reviewed paper)

Annalisa Rollandi; *Politecnico di Milano, DASTU; Milano, Italy*

Spatial Navigation Modelling Technology in Urban Planning Project (reviewed paper)

Alexander Kolontay; *Genplan Institute of Moscow; Moscow, Russia*

Synthetic and Tangible Agents for an Activity-based Urban Planning Tool (reviewed paper)

Axel Häusler; *Technische Hochschule Ostwestfalen-Lippe, Forschungsschwerpunkt nextPlace; Detmold, DE*
 Amanda Barbosa Jardim; *Technische Hochschule Ostwestfalen-Lippe, Forschungsschwerpunkt nextPlace; Detmold, DE*
 Maximilian Müh; *Technische Hochschule Ostwestfalen-Lippe, Forschungsschwerpunkt nextPlace; Detmold, DE*
 Andrea Kondziela; *Leibniz Universität Hannover, Institut für Gestaltung und Darstellung ; Hannover, DE*

The Relationship between Information and Communication Technology and Travel: a Compendium of Literature (reviewed paper)

Oluwayemi-Oniya Aderibigbe; *University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa*
 Trynos Gumbo; *University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa*
 Themban Moyo; *University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa*
 Sipiwe Mbatha; *University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa*



Towards Climate Neutrality through Integrated Energy Planning – a Cross-Country Comparison and Case Study Analysis of Positive Energy District Concepts between Switzerland and Norway (reviewed paper)

Matthias Haase; *Zurich University of Applied Sciences, Institute for Facility Management*; Wädenswil, CH
Daniela Baer; Trondheim, Norway

Typologien räumlicher Auswirkungen der Digitalisierung (reviewed paper)

Radostina Radulova-Stahmer; *TU Graz/KIT, Institut für Städtebau*; Graz, AT

Urban Resilience Thinking. “Smart Urban Risks” in Smart Cities (reviewed paper)

Ulrich Ufer; *Karlsruhe Institute of Technology, Institute for Technology Assessment and Systems Analysis*; Karlsruhe, DE
Sadeeb S. Ottenburger; *Karlsruhe Institute of Technology, Institute for Thermal Energy Technology and Safety*; Eggenstein-Leopoldshafen, DE

Post-Carbon Economy, Ecologisation of Economy and Society

The Spatial Impact of a Circular Economy from the Perspective of Companies and Framed within the Context of Circular Spatial Development (reviewed paper)

Sophie De Mulder; Brussels, Belgium
Jan Zaman; Brussels, Belgium

About Ecology in the City: an Attempt of Classification of the Political Trends

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

Social Innovation

alBOX: White Label Parcel Lockers as Sustainable Solution for Last Mile Delivery (reviewed paper)

Nina Hohenecker; *Vienna University of Technology, Raumplanung/ E280-05 Verkehrssystemplanung*; Vienna, AT
Johannes Braith; *Storebox Holding GmbH*; Vienna, AT
Seragiotto Clovis; *AIT Austrian Institute of Technology, Center for Energy*; Vienna, AT
Sandra Eitler; *University of Applied Sciences BFI Vienna*; Vienna, AT
Georg Hauger; *Vienna University of Technology, Raumplanung/ E280-05 Verkehrssystemplanung*; Vienna, AT
Matthias Prandstetter; *AIT Austrian Institute of Technology, Center for Energy*; Vienna, AT
Matthias Steinbauer; *Variocube GmbH*; Linz, AT
Reinhold Schodl; *University of Applied Sciences BFI Vienna*; Vienna, AT

Behavioural Study as an Approach for Tailor-Made Spatial Planning (reviewed paper)

Jonas De Maeyer; *Endeavour, /*; Antwerpen, Belgium
Sophie Leroy; *Endeavour*; Antwerpen, Belgium
Sophie De Mulder; *Department of Environment & Spatial Development Flanders*; Brussels, Belgium
Inge Penninx; *Department of Environment & Spatial Development Flanders*; Brussels, Belgium





Bringing Research on City Resilience to Relevant Stakeholders – Combining Co-creation and Standardization in the ARCH project (reviewed paper)

Rene Lindner; *DIN German Institute for Standardization, Innovation*; Berlin, DE

Vasileios Latinos; *ICLEI Europe*; Freiburg, DE

Katherine Peinhardt; *ICLEI Europe*; Freiburg, DE

Daniel Lückeroth; *Fraunhofer Institute for intelligent Analysis and Information Systems IAIS*; Sankt Augustin, DE

Integrating User Needs in Sustainable Neighbourhood Transition of the Smart City – Expanding Knowledge and Insight among Professional Stakeholders (reviewed paper)

Daniela Baer; *SINTEF, COMMUNITY*; Trondheim, Norway

Caroline Cheng; *SINTEF, COMMUNITY*; Trondheim, Norway

Smart Social Innovation Faced Pandemic COVID-19 – Case: Urban Self-built Settlement of Surabaya (reviewed paper)

The Digital World of the Future as an Evolution of the Past (reviewed paper)

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

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

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

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

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

Other topic

Analyzing Everyday Spatial Behaviours of Residents in the Public Spaces of a Secluded Neighbourhood: Habitation in Jonub Bolursazi Neighbourhood in Region 17 of Tehran (reviewed paper)

Zohreh Dodangeh; Malard, Iran

Barriers and Opportunities of Community Participation in Informal Settlement Upgrading Projects: A Case Study of Slovo Park, South Africa (reviewed paper)

Kedibone Maganadisa; *University of Johannesburg, Department of Urban and Regional Planning*; Johannesburg, South Africa

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

Ockert Pretorius; *University of Johannesburg, Department of Urban and Regional Planning*; Johannesburg, South Africa

Biomimicry Principles as a Tool for Evaluating Buildings (reviewed paper)

Basma Abdelaleem; Alexandria, Egypt

Effectiveness of In Situ Upgrading in Improving the Quality of Life of Beneficiaries Living in Informal Settlements in South Africa (reviewed paper)

Kedibone Precious Maganadisa; *University of Johannesburg, Urban and Regional Planning*; Johannesburg, RSA

Vuyiswa Letsoko; Johannesburg, South Africa

Ockert Pretorius; Johannesburg, South Africa

Die Geodateninfrastruktur und deren Potenzial zur Verbesserung der Intersubjektivität räumlicher Analysen: dargestellt am Beispiel der stationären Einrichtungen zur Langzeitpflege älterer Menschen in Österreich

Tatjana Fischer; *University of Natural Resources and Life Sciences, Vienna (BOKU Vienna), Institute of Spatial Planning, Environmental Planning and Land Rearrangement (IRUB); Vienna, AT*
Markus Jobst; *TU Wien, Forschungsgruppe Kartographie; Wien, AT*

Shared Urban Micromobility: Towards a Successful Approach to Collaboration and Regulation

George Buxton; *WSP; London, UK*
Hamza Harrami; *Stockholm, Sweden*
Todd Nguyen; *Sydney, Australia*
Nikos Papakatsikas; *Stockholm, Sweden*
Nick Roberts; *Toronto, Canada*
Shifani Sood; *Auckland, New Zealand*

