

XXV International Conference Living and Walking in Cities (LWC 2021)

**New Scenarios for Safe Mobility in Urban
Areas**

Transportation Research Procedia Volume 60

Brescia, Italy
9 – 10 September 2021

Editors:

**Maurizio Tira
Giulio Maternini
Michela Tiboni**

ISBN: 978-1-7138-4261-3

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2022) The Authors. Published by Elsevier Ltd.
Creative Commons Attribution 4.0 International License.
License details: <http://creativecommons.org/licenses/by/4.0/>.

No changes have been made to the content of these proceedings. There may be changes to pagination, and minor adjustments for aesthetics.

Printed with permission by Curran Associates, Inc. (2022)

For permission requests, please contact the publisher:

Elsevier B.V.
Radarweg 29
Amsterdam 1043 NX
The Netherlands

Phone: +31 20 485 3911
Fax: +31 20 485 2457

<http://www.elsevierpublishingsolutions.com/contact.asp>

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

Living and Walking in Cities 2021.....	1
<i>Maurizio Tira, Giulio Maternini, Michela Tiboni</i>	
Transport System and Infrastructure	6
<i>George Yannis, Antonis Chaziris</i>	
Addressing the Unjust Treatment of Pedestrians at Signalised Intersections	12
<i>Tom Cohen, Mariam Almarwani</i>	
An Innovative Methodology for Micro-Mobility Network Planning	20
<i>Antonio Comi, Antonio Polimeni, Agostino Nuzzolo</i>	
Analysis of Pedestrian Crossing Behaviour at Roundabout	28
<i>Natalia Distefano, Salvatore Leonardi, Giulia Pulvirenti</i>	
Co-Design of Public Spaces for Pedestrian Use and Soft-Mobility in the Perspective of Communities Reappropriation and Activation	36
<i>Anna Moro</i>	
Investigating Spatial Behaviour in Different Types of Shared Space	44
<i>Mariana Batista, Bernhard Friedrich</i>	
Policies to Promote Cycling in Southern European Island Cities: Challenges and Solutions from Three ‘starter’ Cycling Cities	52
<i>Suzanne Maas, Maria Attard</i>	
The Transformation of Urban Spaces as a Cycling Motivator: The Case of Cagliari, Italy	60
<i>Francesco Piras, Beatrice Scappini, Italo Meloni</i>	
Comparison Between Different Territorial Policies to Support Intermodality of Public Transport.	68
<i>Margherita Pazzini, Claudio Lantieri, Valeria Vignali, Andrea Simone, Denis Grasso</i>	
The Evolution of Sustainable Mobility and Urban Space Planning: Exploring the Factors Contributing to the Regeneration of Car Parking in Living Spaces	76
<i>Tiziana Campisi, Barbara Caselli, Silvia Rossetti, Vincenza Torrisi</i>	
Transformation of an Existing Urban Bus Line: Milan Full Electric Project	84
<i>Fabio Borghetti, Michela Longo, Renato Mazzoncini, Alfredo Panarese, Claudio Somaschini</i>	
Challenges of Mediterranean Metropolitan Systems: Smart Planning and Mobility.....	92
<i>Rosaria Battarra, Giuseppe Mazzeo</i>	
Impact of Social and Technological Distraction on Pedestrian Crossing Behaviour: A Case Study in Enna, Sicily	100
<i>Tiziana Campisi, Irena Ištoka Otković, Sanja Šurdonja, Aleksandra Deluka-Tibljaš</i>	
Improving Sustainable Mobility in University Campuses: The Case Study of Sapienza University	108
<i>Veronica Sgarra, Eleonora Meta, Maria Rosaria Saporito, Luca Persia, Davide Shingo Usami</i>	
Liveability and Freight Transport in Urban Areas: The Example of the Calabria Region for City Logistics	116
<i>Maria Rosaria Trecozzi, Giuseppe Iiritano, Giovanna Petrunaro</i>	

Perceived Pedestrian Level of Service: The Case of Thessaloniki, Greece.....	124
<i>Tiziana Campisi, Giovanni Tesoriere, Anastasios Skoufas, Dimitris Zeglis, Socrates Basbas</i>	
Perspectives of Resilience for the Abandoned Industrial Areas	132
<i>Francesco Paolo Protomastro</i>	
Planning Seismic Inner Areas in Central Italy. Experimental Application for the Infrastructural Project, Lifeline and Resilient Public Space in the Shrinking Territory.....	140
<i>Luca Domenella, Marco Galasso, Giovanni Marinelli, Francesco Rotondo</i>	
Re-Designing Urban Open Spaces to Act as Green Infrastructure - The Case of Malta	148
<i>Sarah Scheiber</i>	
Regional Transportation Plan of the Calabria: The Mobility in Urban Areas	156
<i>Francesco Russo, Giuseppe Iiritano, Giovanna Petrunaro, Maria Rosaria Trecozzi</i>	
Sustainable Mobility and Resilient Urban Spaces in the United Kingdom. Practices and Proposals.....	164
<i>Chiara Ravagnan, Francesca Rossi, Masoumeh Amiriaref</i>	
Analyzing the Criticalities of Public Spaces to Promote Sustainable Mobility.....	172
<i>Stefania Boglietti, Michela Tiboni</i>	
Effects of Berlin Speed Cushions in Urban Restricted Speed Zones: A Case Study in Bari, Italy	180
<i>Nicola Berloco, Stefano Coropulis, Paolo Intini, Vittorio Ranieri</i>	
Experimental Models of Pedestrian Flows as Support to Design New Sustainable Paths in Urban Context	188
<i>Gattuso Domenico, Cassone Gian Carla, Malara Margherita</i>	
How to Redesign Urbanized Arterial Roads? the Case of Italian Small Cities	196
<i>Matteo Ignaccolo, Stefano Zampino, Giulio Maternini, Michela Tiboni, Vincenza Torrisi</i>	
Limited Traffic Zone for Walk Safety Around the Schools	204
<i>Giuseppe Iiritano, Giovanna Petrunaro, Maria Rosaria Trecozzi</i>	
Sustainability Charter for Innovative Cities and Safe Mobility. Case Study: Sestri Levante.....	212
<i>Ilenia Spadaro, Francesca Pirlone, Selena Candia</i>	
Pedestrian Priority in Street Design - How Can it Improve Sustainable Mobility?.....	220
<i>Paulo Ancaes, Peter Jones</i>	
Removing Regulatory Features of Traffic Control in School Zones	228
<i>Ivan Cvitković, Siniša Vilke, Ljudevit Krpan, Predrag Brlek</i>	
Slow Streets Malta – Challenging the Status Quo in a Car-Dependent Island State	235
<i>Antoine Zammit</i>	
The Cycle Network as an Environmental Infrastructure	243
<i>Antonio Alberto Clemente</i>	
Impact of Teleworking on Travel Behaviour During the COVID-19 Era: The Case of Sicily, Italy	251
<i>Tiziana Campisi, Giovanni Tesoriere, Mirto Trouva, Thomas Papas, Socrates Basbas</i>	
Two Viruses, One Prescription: Slow Down.....	259
<i>Rodney Tolley, Paul Tranter</i>	

Improving Young Women’s Access to Safe Mobility in a Low-Income Area of Tunis: Challenges and Opportunities Pre- And post-Covid	266
<i>Gina Porter, Emma Murphy, Saerom Han, Hichem Mansour, Kim van der Weijde</i>	
Planning Adaptive Strategies for Urban Transport and Land Use Using Scenario-Building	274
<i>Amor Ariza-Álvarez, Julio A. Soria-Lara, Francisco Aguilera-Benavente</i>	
The Second Life of Small Mountain Villages: The Power of Relationship	282
<i>Maria Rosa Ronzoni</i>	
Experiences of Safe and Healthy Walking and Cycling in Urban Areas: The Benefits of Mobile Methods for Citizen-Adapted Urban Planning	290
<i>Heike Marquart, Juliane Schicketanz</i>	
E-Shopping and Walking Accessibility to Retail	298
<i>Aldo Arranz-López, Luis M. Mejía-Macias, Julio A. Soria-Lara</i>	
New Milan Metro-Line M4. from Infrastructural Project to Design Scenario Enabling Urban Resilience	306
<i>Marika Fior, Paolo Galuzzi, Piergiorgio Vitillo</i>	
Public Open Spaces: Connecting People, Squares and Streets by Measuring the Usability Through the Villanova District in Cagliari, Italy	314
<i>Chiara Garau, Alfonso Annunziata</i>	
The More Walkable, the More Livable? -- Can Urban Attractiveness Improve Urban Vitality?.....	322
<i>Yang Liang, Domenico D’Uva, Alessandro Scandiffio, Andrea Rolando</i>	
The 15-Minute City: Interpreting the Model to Bring Out Urban Resiliencies	330
<i>Lamia Abdelfattah, Diego Deponte, Giovanna Fossa</i>	
An Antifragile Strategy for Rome post-Covid Mobility	338
<i>Mario Cerasoli, Chiara Amato, Chiara Ravagnan</i>	
Exploring the 15-Minute Neighbourhoods. an Evaluation Based on the Walkability Performance to Public Facilities	346
<i>Barbara Caselli, Martina Carra, Silvia Rossetti, Michele Zazzi</i>	
Livable Neighborhoods for Sustainable Cities: Insights from Barcelona.....	354
<i>Luca Staricco, Elisabetta Vitale Brovarone</i>	
The City of Zagreb Lower Town Urban Mobility Development Program	362
<i>Igor Majstorović, Maja Ahac, Saša Ahac</i>	
Scenarios for a Post-Pandemic City: Urban Planning Strategies and Challenges of Making “Milan 15-Minutes City”	370
<i>Fulvia Pinto, Mina Akhavan</i>	
Urban Accessibility in a 15-Minute City: A Measure in the City of Naples, Italy	378
<i>Federica Gaglione, Carmela Gargiulo, Floriana Zucaro, Caitlin Cottrill</i>	
Mobility and the Role of Pedestrian in the Making of Public Space: The Case Study of Mersin	386
<i>Züleyha Sara Belge, Müge Akkar Ercan</i>	
Can Urban Regeneration Improve Walkability? a Space-Time Assessment for the Tintoretto Area in Brescia.....	394
<i>Martina Carra, Silvia Rossetti, Michela Tiboni, David Vetturi</i>	

Transfer’s Monitoring in Bus Transit Services by Automatic Vehicle Location Data	402
<i>Sara Mozzoni, Massimo Di Francesco, Giulio Maternini, Benedetto Barabino</i>	
Traffic Surveys and GPS Traces to Explore Patterns in Cyclist’s In-Motion Speeds	410
<i>Cristian Poliziani, Federico Rupi, Joerg Schweizer</i>	
Evaluation of the Impact of Speed Bumps on the Safety of Residents - Selected Aspects	418
<i>Katarzyna Kosakowska</i>	
The BITS Project – Making Cycling Data Available and Comparable on a European Scale	424
<i>Johannes Schering, Jorge Marx Gómez</i>	
Young Drivers’ Pedestrian Anti-Collision Braking Operation Data Modelling for ADAS Development	432
<i>Matteo Miani, Matteo Dunnhofer, Christian Micheloni, Andrea Marini, Nicola Baldo</i>	
An Analysis of the Service Coverage and Regulation of E-Scooter Sharing in Rome (Italy).....	440
<i>Fabio D’Andreagiovanni, Antonella Nardin, Stefano Carrese</i>	
Developing Micromobility in Urban Areas: Network Planning Criteria for E-Scooters and Electric Micromobility Devices.....	448
<i>Matteo Ignaccolo, Giuseppe Inturri, Elena Cocuzza, Nadia Giuffrida, Vincenza Torrisi</i>	
From Traditional to Electric Free-Floating Car Sharing: Application and Case Study in the City of Milan in Italy	456
<i>Fabio Borghetti, Simona Briancesco, Michela Longo, Roberto Maja, Dario Zaninelli</i>	
Micro-Mobility in the “Virucity”. the Effectiveness of E-Scooter Sharing.....	464
<i>Romano Fistola, Mariano Gallo, Rosa Anna La Rocca</i>	
Collaborative Soft Mobility Planning for University Cities: The Case of Pavia.....	472
<i>Roberto De Lotto, Alessandro Greco, Marilisa Moretti, Caterina Pietra, Elisabetta M. Venco</i>	
Exploratory Evaluation of Road Network Hierarchy in Small-Sized Cities: Evidence from 20 Greek Cities.....	480
<i>Stefanos Tsigdinos, Yannis Paraskevopoulos, Efthymia Kourmpa</i>	
Promoting Integrated Urban Development. an Application in Naples Metropolitan Area.....	488
<i>Gerardo Carpentieri, Rocco Papa, Carmen Guida</i>	
Through the Eyes of Autonomous Vehicles – Using Laser Scanning Technology to Engage the Public Via the Analysis of Journeys Seen from a Different Perspective.....	496
<i>Daria Belkouri, Richard Laing, David Gray</i>	
A Methodology for the Characterization of Urban Road Safety Through Accident Data Analysis.....	504
<i>Sandro Colagrande</i>	
Identifying Clusters and Patterns of Road Crash Involving Pedestrians and Cyclists. a Case Study on the Province of Brescia (IT)	512
<i>Michela Bonera, Riccardo Mutti, Benedetto Barabino, Gianfranco Guastaroba, Giulio Maternini</i>	
Changes in Transport Behaviour and Road Traffic Injuries in Moscow During the Covid-19 Crisis.....	520
<i>Nadezda Andreevna Kirilina</i>	
Pedestrian Safety at Roundabouts: A Comparison of the Behavior in Italy and Slovenia	528
<i>Chiara Gruden, Irena Ištoka Otković, Matjaž Šraml</i>	

Applying Deep Learning Techniques for the Prediction of Pedestrian Behaviour on Crossings with Countdown Signal Timers.....	536
<i>Marios Fourkiotis, Chrysanthi Kazaklari, Aristomenis Kopsacheilis, Ioannis Politis</i>	
Analysing the Spatial Impacts of Retail Accessibility for E-Shoppers' Groups	544
<i>Paloma Mateos-Minguez, Aldo Arranz-López, Julio A. Soria-Lara</i>	
Active Mobility in Historical Centres: Towards an Accessible and Competitive City	552
<i>Carmela Gargiulo, Sabrina Sgambati</i>	
Active Mobility Perception from an Intersectional Perspective: Insights from Two European Cities	560
<i>Angela Carboni, Miriam Pirra, Mariana Costa, Sofia Kalakou</i>	
Connecting University Facilities with Railway Transport Stations: The Case of Catania	568
<i>Nadia Giuffrida, Martina Fazio, Michela Le Pira, Giuseppe Inturri, Matteo Ignaccolo</i>	
Urban Regeneration as an Opportunity to Redesign Sustainable Mobility. Experiences from the Emilia-Romagna Regional Call.....	576
<i>Gloria Pellicelli, Silvia Rossetti, Barbara Caselli, Michele Zazzi</i>	
Age-Related Differences in Attitudes and Perception on Road Safety Issues in Montenegro	584
<i>Vladimir Pajković, Mirjana Grdinić-Rakonjac</i>	
Effects of Urban Road Environment on Vehicular Speed. Evidence from Brescia (Italy).....	592
<i>Valentina Martinelli, Roberto Ventura, Michela Bonera, Benedetto Barabino, Giulio Maternini</i>	
Investigating Objective and Perceived Safety in Road Mobility	600
<i>Marco Boffi, Barbara E.A. Piga, Lorenzo Mussone, Giandomenico Caruso</i>	
Innovative Glass-Powder Paint Technology for Improving Driver Visibility at Night: Case Study CBD Access Road, East London, Eastern Cape Province South Africa	608
<i>Abejide Samuel, Mostafa M.H. Mohamed</i>	
Safety-Related Behaviours of E-Cyclists on Urban Streets: An Observational Study in Israel	609
<i>Victoria Gitelman, Anna Korchatov, Roby Carmel</i>	

Author Index