



Delft University of Technology

WebAndTheCity'22

8th International Workshop on The Web and Smart Cities

Anthopoulos, Leonidas; Janssen, Marijn; Weerakkody, Vishanth

DOI

[10.1145/3487553.3524880](https://doi.org/10.1145/3487553.3524880)

Publication date

2022

Document Version

Final published version

Published in

WWW 2022 - Companion Proceedings of the Web Conference 2022

Citation (APA)

Anthopoulos, L., Janssen, M., & Weerakkody, V. (2022). WebAndTheCity'22: 8th International Workshop on The Web and Smart Cities. In *WWW 2022 - Companion Proceedings of the Web Conference 2022* (pp. 1216-1217). (WWW 2022 - Companion Proceedings of the Web Conference 2022). Association for Computing Machinery (ACM). <https://doi.org/10.1145/3487553.3524880>

Important note

To cite this publication, please use the final published version (if applicable).
Please check the document version above.

Copyright

Other than for strictly personal use, it is not permitted to download, forward or distribute the text or part of it, without the consent of the author(s) and/or copyright holder(s), unless the work is under an open content license such as Creative Commons.

Takedown policy

Please contact us and provide details if you believe this document breaches copyrights.
We will remove access to the work immediately and investigate your claim.

Green Open Access added to TU Delft Institutional Repository

'You share, we take care!' - Taverne project

<https://www.openaccess.nl/en/you-share-we-take-care>

Otherwise as indicated in the copyright section: the publisher is the copyright holder of this work and the author uses the Dutch legislation to make this work public.



WebAndTheCity'22

8th International Workshop on The Web and Smart Cities

Leonidas Anthopoulos
Department of Business
Administration, University of
Thessaly, Greece
lanthopo@uth.gr

Marijn Janssen
Professor, Delft University of
Technology
m.f.w.h.a.janssen@tudelft.nl

Vishanth Weerakkody
Professor, University of Bradford
v.weerakkody@bradford.ac.uk

ABSTRACT

This is the 8th edition of the workshop series labeled “AW4City – Web Applications and Smart Cities”, which started back in Florence in 2015 and kept on taking place every year in conjunction with the WWW conference series. Last year the workshop was held virtually in Ljubljana, Slovenia. The workshop series aims to investigate the Web and Web applications’ role in establishing smart city (SC) promises. The workshop series aim to investigate the role of the Web and of Web applications in SC growth. This year, the workshop focuses on the role of the web in smart environment. In the era of cities and under the UN 2030 Agenda and the European Green deal for sustainable growth, cities appear to play crucial role in securing humanity against environmental threats and generate sustainable and circular cities. In this regard, cities attempt to improve their forms (e.g., more compact, and eco-friendlier) and performance to become friendlier and able to host their increasing populations. Additionally, new types of business appear (e.g., that utilize IoT and data, manage e-waste and recycle), while the co-existence of autonomous things and people generate another challenge that cities have been started phasing. This workshop aims to demonstrate how web applications, Apps and Web Intelligence can serve smart environment in general.

CCS CONCEPTS

• **Human-centered computing** → Visualization; Visualization application domains; Information visualization;; • **Applied computing** → Computers in other domains; Computing in government.

KEYWORDS

smart city, web Apps, smart environment, smart citizens

ACM Reference Format:

Leonidas Anthopoulos, Marijn Janssen, and Vishanth Weerakkody. 2022. WebAndTheCity’22: 8th International Workshop on The Web and Smart Cities. In *Companion Proceedings of the Web Conference 2022 (WWW ’22 Companion)*, April 25–29, 2022, Virtual Event, Lyon, France. ACM, New York, NY, USA, 2 pages. <https://doi.org/10.1145/3487553.3524880>

Permission to make digital or hard copies of part or all of this work for personal or classroom use is granted without fee provided that copies are not made or distributed for profit or commercial advantage and that copies bear this notice and the full citation on the first page. Copyrights for third-party components of this work must be honored. For all other uses, contact the owner/author(s).

WWW ’22 Companion, April 25–29, 2022, Virtual Event, Lyon, France

© 2022 Copyright held by the owner/author(s).

ACM ISBN 978-1-4503-9130-6/22/04.

<https://doi.org/10.1145/3487553.3524880>

1 INTRODUCTION

This is the 8th edition of the workshop series labeled “WebAndTheCity – The Web and Smart Cities”, which started back in Florence in 2015 (past label “AW4City”) and kept on taking place every year in conjunction with the WWW conference series. Last year the workshop was held virtually in Ljubljana, Slovenia. The workshop series aims to investigate the Web and Web applications’ role in establishing smart city (SC) promises. The workshop series aim to investigate the role of the Web and of Web applications in SC growth.

This year, the workshop focuses on the role of the web in smart environment. In the era of cities and under the UN 2030 Agenda and the European Green deal for sustainable growth, cities appear to play crucial role in securing humanity against environmental threats and generate sustainable and circular cities. In this regard, cities attempt to improve their forms (e.g., more compact, and eco-friendlier) and performance to become friendlier and able to host their increasing populations. Additionally, new types of business appear (e.g., that utilize IoT and data, manage e-waste and recycle), while the co-existence of autonomous things and people generate another challenge that cities have been started phasing. This workshop aims to demonstrate how web applications, Apps and Web Intelligence can serve smart environment in general.

This is a half-day event and consists of the following presentations:

Abstract Human centric design in smart city technologies: Implications for the governance, control, and performance evaluation of mobility ecosystems

Abstract Citizens as Developers and Consumers of Smart City Services: A Drone Tour Guide Case

Abstract A Human-Centered Design Approach for the Development of a Digital Care Platform in a Smart City Environment: Implications for Business Models

Abstract Sensor Network Design for Uniquely Identifying Sources of Contamination in Water Distribution Networks

Abstract Enhancing crowd flow prediction in various spatial and temporal granularities

Abstract A framework to enhance smart citizenship in coastal areas

Abstract The emergence of multi-tenancy

The call for articles attracted submissions from United States, Europe, and Asia. Review and acceptance statistics are as follows:

We believe that the program provides a good balance between several trending topics such as people-centric applications in cities, citizen engagement and IoT in SC. Hence, we hope that you will find the workshop’s program interesting, providing you with a valuable

Table 1: Workshop’s performance

Submission Type	Reviewed	Accepted	
Full Technical Papers	9	5	55,5%
Short Poster Presentations	4	2	50%

opportunity to learn and share ideas with other researchers and practitioners from institutions around the world. An invited speech

about smart city future and a tutorial about smart city applications, will be presented in the beginning of the workshop.