

Acknowledgements

We wish to give special thanks to the JoDLA Board of Editors, and to the members of the Review Board of the Journal of Digital Landscape Architecture.

The Board of Editors helps promote the quality and interests of the **Journal of Digital Landscape Architecture (JoDLA)**. This includes advising the editors on the policies of JoDLA and its future direction, and recruiting appropriate submissions. A group of experts in the areas of New Media and Landscape Architecture, mostly from the Board of Editors, but completed by additional specialists, serves as **Peer Reviewers for the Journal JoDLA**. The contributions to the journal are the result of a two-phase blind peer-review process. A total of one hundred and sixteen extended abstracts were initially submitted. This is the highest number ever received by the JoDLA!

The extended abstracts came from 24 countries: 46 entries from the United States, 11 entries from Australia, 10 entries from Germany, 8 entries from China and Taiwan, 6 entries from

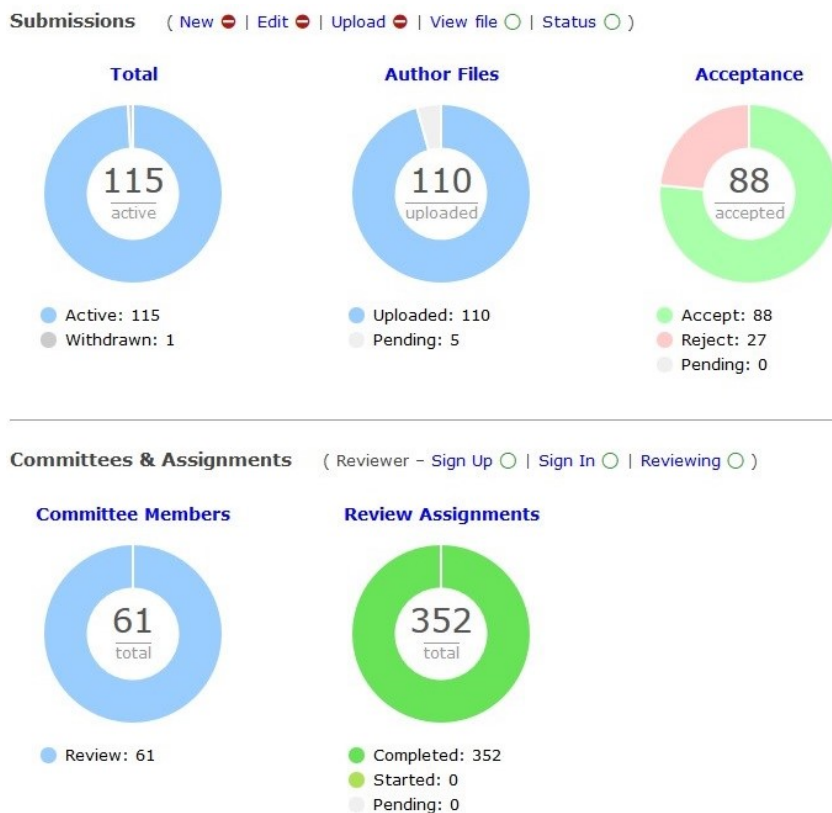


Fig. 1: 116 submitted extended abstracts reviewed by 61 blind reviewers led to 88 accepted abstracts for submission of full papers for JoDLA 5-2020 – graphics provided by OpenConf

Turkey, 6 entries from the Netherlands, 3 entries each from South Korea and the United Kingdom, 2 entries from Italy and Switzerland. And from the following countries we received one entry each: Armenia, Bangladesh, Czech Republic, Denmark, Finland, Greece, Japan, Lebanon, New Zealand, Norway, Serbia, Sweden and the United Emirates.

The anonymous peer-review process of the 116 extended abstracts led to eighty-eight being accepted for full paper review and finally to sixty-six full papers being accepted for publication as peer-reviewed papers. Every paper accepted as a full paper for the journal publication was rigorously reviewed by at least two peers from the international panel of scholars.

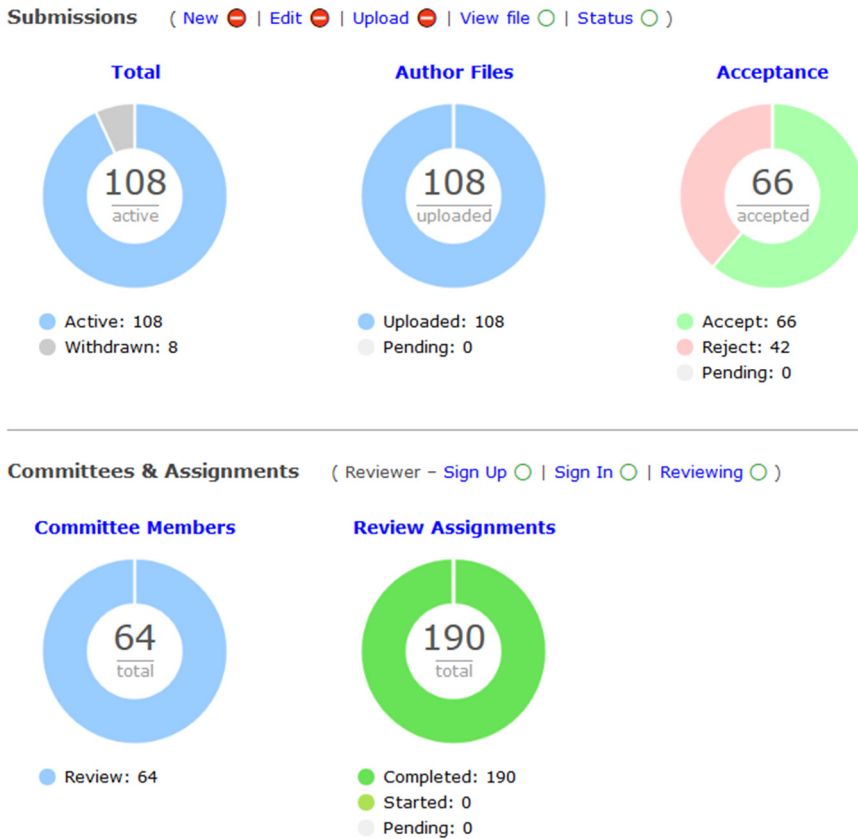


Fig. 2: 66 Accepted full papers for JoDLA 5-2020 after 190 blind full paper reviews by 64 reviewers – graphics provided by OpenConf

The high standards of the reviewers assure that the papers in this fifth issue will advance the theory and application of digital methods in landscape architecture.

The reviewers listed below spent many hours on extended abstracts and full papers. Many of them also wrote expert recommendations on how to improve the papers. **Without volunteer academic contribution, we could not develop this academic journal. Thank you JoDLA reviewers!**

And we sincerely hope that the reviewers will also find time to help us in the future.

Ackerman, Aidan – SUNY College of Environmental Science and Forestry, USA

Bishop, Ian – University of Melbourne, Australia

Campagna, Michele – Università di Cagliari, Italy

Canfield, Tess – London, United Kingdom

Conrad, Max – Louisiana State University, United States

Danahy, John – University of Toronto, Canada

Döllner, Jürgen – Hasso-Plattner Institut, Germany

Donaubauer, Andreas – TU München, Germany

Douglas, Craig – Harvard University GSD, United States

Ervin, Stephen – Harvard University GSD, United States

Esbah Tuncay, Hayriye – Harvard University GSD, United States

Fehler, Dennis – Harvard University GSD, United States

Formosa, Saviour – University of Malta, Malta

Fricker, Pia – Aalto University, Finland

Gilbey, Eric – Vectorworks, United States

Haase, Andrea – Rainer Schmidt Landschaftsarchitekten, Germany

Hasbrouck, H. Hope – University of Texas at Austin, United States

Hehl-Lange, Sigrid – University of Sheffield, United Kingdom

Holzman, Justine – University of Toronto, Canada

Ikhwan, Kim – Istanbul Technical University, Turkey

Hietel, Elke – TH Bingen, Germany

Kias, Ulrich – Weihenstephan-Triesdorf University, Germany

Kieferle, Joachim – Hochschule RheinMain, Germany

Kim, Mintai – Virginia Tech, United States

Kolbe, Thomas – TU München, Germany

Kowalewski, Benedikt – ETH Zurich, Switzerland

Kretschmar, Barty – Anhalt University, Germany

Lange, Eckart – University of Sheffield, United Kingdom

Lammeren, Ron van – Wageningen University and Research, Netherlands

Lovett, Andrew – University of East Anglia, United Kingdom

Mach, Ruediger – mach:idee Visualisierung, Germany

Mattos, Cristina – GAF, Germany

Meehan, Dan – Penn State University, United States

Melsom, James – UTS – University of Technology Sydney, Australia

Monacella, Rosalea – Harvard University GSD, United States

Mertens, Elke – Hochschule Neubrandenburg, Germany

Orland, Brian – University of Georgia, United States

Örnek, Muhammed – Istanbul Technical University, Turkey

Ozdil, Taner – The University of Texas at Arlington, United States

Ozimek, Agnieszka – Cracow University of Technology, Poland

Özkar, Mine – Istanbul Technical University, Turkey

Paar, Philipp – Laubwerk GmbH, Germany

Palmer, James – Scenic Quality Consultants, United States
Patuano, Agnes – Wageningen University, Netherlands
Pietsch, Matthias – Anhalt University, Germany
Rekittke, Jörg – Norwegian University of Life Sciences (NMBU), Norway
Rivero, Rosanna – University of Georgia, United States
Roth, Michael – Nürtingen-Geislingen University, Germany
Sandqvist, Sofia – Tengbomgruppen, Sweden
Schroth, Olaf – Weihenstephan-Triesdorf University, Germany
Schwarz von Raumer, Hans-Georg – University of Stuttgart, Germany
Seçkin, Yasin Çağatay – Istanbul Technical University, Turkey
Sharky, Bruce – LSU Robert Reich School of Landscape Architecture, USA
Shearer, Allan – The University of Texas at Austin, United States
Steinitz, Carl – CASA UCL, United States/Harvard University, United States
Stemmer, Boris – Hochschule Ostwestfalen-Lippe, Germany
Stendel, Josef – Nürtingen-Geislingen University, Germany
Strobl, Josef – University of Salzburg, Austria
Sturla, Paola – Harvard University GSD, United States
Taeger, Stefan – Hochschule Osnabrück, Germany
Tara, Ata – RMIT University, Australia
Taylor, Micah – University of Georgia, United States
Tomlin, Dana – University of Pennsylvania, United States
Tulloch, David – Rutgers University, United States
Vogler, Verena – Bauhaus University Weimar, Germany
Vugule, Kristine – Latvia University of Agriculture, Latvia
Walls, Wendy – The University of Melbourne, Australia
Westort, Caroline – Iowa University, United States
Wissen Hayek, Ulrike – ETH Zurich, Switzerland
Yeo, Seok Min – Harvard University GSD, United States
Zeile, Peter – Karlsruhe Institute of Technology, Germany

We would like to summarize the phases of the specific review process that we apply during the review for the Journal of Digital Landscape Architecture. The seventy reviewers from different areas of IT in landscape architecture, as well as all the authors, used OpenConf, an efficient online conference management system.

Prof. Joachim Kieferle from Hochschule Rhein-Main operated the management system this year, as he has done for many years. **We would like to offer Joachim Kieferle our great appreciation for his long-term commitment.**

In the first step of the blind-review process, four to five blind reviewers are asked to give an initial evaluation for each of the anonymous abstracts assigned to her/him and place it into one of six levels of evaluation. The average score derived from these evaluations and the written evaluations of the reviewers is the basis for accepting a paper for full paper submission.

In the second step, the blind review of the full papers, only two reviewers with in-depth knowledge of the subject matter are assigned per paper. These second reviewers are usually selected from the original group that evaluates each initial abstract, and they are asked to consider recommendations already made.

In the written suggestions, the reviewers are also asked to check for

- missing references to the literature, and
- irrelevant or mistaken assertions

The reviewers are usually able to make several suggestions for improvement. All further accepted authors are given enough time to rework their full papers according to the recommendations of the two reviewers. In this second review phase, only very few authors of full papers are asked for a complete re-submission for a later issue.

Each author receives the comments of the reviewers and additional comments by the editors for revising the full paper. When necessary, papers are returned to authors for revision until accepted by both reviewers. In some cases, additional anonymous reviewers are also asked to comment.

Two hundred authors and co-authors of sixty-six papers received a final confirmation letter that their contribution would be published in the fifth issue of the Journal of Digital Landscape Architecture, 5-2020, Herbert Wichmann Verlag, VDE VERLAG GMBH, Berlin and Offenbach, Germany.

We would like to give special thanks to all our colleagues who serve on the Review Board and by doing so further develop the level of scientific standards of peer-reviewed proceedings of this conference. We thank all of them for the extensive time spent in reviewing the abstracts and the papers for this journal.

The quality of the peer-reviewed papers benefits greatly from the extensive advice given in comments by the blind reviewers to the anonymous authors. We are very flattered by the academic support given by the reviewers of JoDLA.

We thank all 70 reviewers who helped with their recommendations during the two-phase review process and we compliment the authors for their SCIENTIFIC EXCELLENCE!

The outstanding contribution of the reviewers to this Journal may be best described by looking at the volume of recommendations given by the reviewers to the authors, The 590,000 words of blind recommendations given in the comments on the papers would fill 140 pages of this journal! Thank you for taking the time and making the effort to share your knowledge with the authors!

**The Journal of Digital Landscape Architecture Award 2020 for
HIGHEST LEVEL OF COMMITMENT IN THE REVIEW COMMITTEE**

are given by the editors to

Ian Bishop, University of Melbourne
John Danahy, University of Toronto
Andreas Donaubauer, TU München
Pia Fricker, Aalto University
Barty Kretzschmar, Anhalt University
Andrew Lovett, University of East Anglia
James Melsom, UTS – University of Technology
Brian Orland, University of Georgia
Agnes Patuano, Wageningen University
Olaf Schroth, Weihenstephan-Triesdorf University

Hans-Georg Schwarz von Raumer, University of Stuttgart

Ata Tara, RMIT University

Verena Vogler, Bauhaus Universität Weimar

Ulrike Wissen Hayek, ETH Zürich

who each wrote more than 5,000 words in recommendations as guidance for the authors submitting full papers for review. A number of other reviewers came close to this volume of recommendations, while others kept their valuable advice to the point. They all gave helpful anonymous input to the authors as well as to the editors aiding the decision on which papers to accept for publication.

We are also pleased to announce three authors and their co-authors who received the highest possible rating by both of their blind reviewers for their full paper contributions to the 5-2020 edition to the Journal of Digital Landscape Architecture.

The awards are given for the highest possible score of the review process for full papers.

The Journal of Digital Landscape Architecture award 2020 on SCIENTIFIC EXCELLENCE is given to

Prof. Howard Hahn, Kansas State University and

Prof. Dr. Brent Chamberlain, Utah State University

for their article

“A Pedagogical Retrospective: Gamifying the Konza Prairie through an Interdisciplinary Studio”

and to

Dr. Joseph Claghorn, University of Sheffield

for his article

“Using Spatial Network Analysis to Recover England’s Lost Footpaths and Rights of Way”

and to

Prof. Dr. James Palmer, Scenic Quality Consultants and

Robert Gerald Sullivan, Argonne National Laboratory

for their article

“Visual Prominence as Perceived in Photographs and In-Situ”

We are also pleased to announce those who received the second highest rating for their full paper contributions. Each of the following papers was given the highest score possible by one of the blind reviewers and the second highest score possible by the other blind reviewer.

The Journal of Digital Landscape Architecture award 2020 on SCIENTIFIC MERIT is given to

Wendy Walls, The University of Melbourne and

Jillian Walliss, The University of Melbourne

for their article

“Digital Modelling as Interdisciplinary Design Practice: A Focus on Microclimate Simulation”

Mohammed Almahmood and
Hans Skov-Petersen, University of Copenhagen
for their article

“Public Space Public Life 2.0: Agent-Based Pedestrian Simulation as a Dynamic Visualisation of Social Life in Urban Spaces”

Ata Tara, Royal Melbourne Institute of Technology
Nerida Thomas, Context Visual Assessment
Alan Chenoweth, Chenoweth Environment
Gerard McCormick, 8LA, Gold Coast
Alison Davis and
Deborah Chow, Office of City Architect, City of Gold Coast
for their article

“Growing by Place: Identifying Building Height Limits Using Skyline Thresholds”

Jens Fischer
Ulrike Wissen Hayek
Marcelo Galleguillos Torres
Bettina Weibel and
Adrienne Grêt-Regamey, all ETH Zurich
for their article

“Investigating Effects of Animated 3D Point Cloud Simulations on Emotional Responses”

Nastaran Tebyanian, Penn State University
for the article

“Application of Machine Learning for Urban Landscape Design: A Primer for Landscape Architects”

Kian Wee Chen and
Forrest Meggers, Princeton University
for their article

“Modelling the Built Environment in 3D to Visualize Data from Different Disciplines: The Princeton University Campus”

Gabriela Arevalo Alvear, OLIN-OLIN Labs
for the article

“New Technologies + Algorithmic Plant Communities: Parametric / Agent-based Workflows to Support Planting Design Documentation and Representation of Living Systems”

Aidan Ackerman
Yao Wang and
Margaret Bryant, all SUNY College of Environmental Science and Forestry
for their article

“Animation of High Wind-Speed Coastal Storm Events with Computational Fluid Dynamics: Digital Simulation of Protective Barrier Dunes”

Benjamin H. George and
Keunhyun Park, Utah State University

for their article

“Flying High: A Case Study of the Integration of Drones into a Landscape Architecture Curriculum”

Ilmar Hurkkens,
Benedikt Kowalewski and
Christophe Girot, all ETH Zurich

for their article

“Informing Topology: Performative Landscapes with Rapid Mass Movement Simulation”

Congratulations to all!

Jeanne Colgan, who has been on board since the very beginnings of the DLA, was once again responsible for English language proofreading. As native English speaker she enables the English language editorial work hosted in Germany. She was supported by Stephen Colgan and Cinnamon Ducasse, while Jana Ekman, Anna Meira Greuning and Noah Buhmann checked and improved all the layouts of the contributions.

This year our great thanks goes to the Graduate School of Design GSD at Harvard University. Dr. Stephen Ervin and his team serve as pioneers for the virtual options for the DLA conference. Anhalt University will be able to build on the challenges faced for DLA 2020 when preparing the DLA 2021. We also thank Anhalt University for having supported the international conference series Digital Landscape Architecture DLA for over 20 years.

Because of the current situation we would like to acknowledge the outstanding work that many geospatial experts in cooperation with specialists of the medical disciplines are providing in the area of mapping the Coronavirus (SARS-CoV-2). The spread of the Coronavirus from the Wuhan region in central China was immediately mapped starting in January. The nearly real-time mapping of the distribution of the virus helps show, for example, the successful isolation strategy in China.

Since January 23, 2020, the daily check of the distribution maps provided by the World Health Organization WHO <https://www.who.int/emergencies/diseases/novel-coronavirus-2019/situation-reports/> and national institutions, such as the Robert Koch Institute (RKI) in Germany help communicate the national measures of restricted mobility to the public.

Many GIS providers have immediately offered their know-how and their maps to create live maps of the spreading of this dangerous new virus. And now, everyone had been introduced to dashboards.

Dashboards are visual displays that present data in an easy-to-read format. All relevant information can be seen on a single screen, facilitating understanding quickly and easily.

ERVIN (2012 and 2015) has defined the need for Dashboards for communicating spatial situations modelled with GIS. Between formulating a helpful instrument and the availability of the development of this tool several years had been necessary. Now it is very rewarding to see these ideas being used worldwide at this crucial time in the crisis.

Already on January 29, 2020 the Johns Hopkins University in Baltimore provided a basic Operation Dashboard for ArcGIS Website for Coronavirus (COVID-19) modelling. The webpage presents the current world wide situation and provides an interactive map with several statistical presentations. Besides the daily WHO posting, the popular Coronavirus COVID-19 Global Cases by the Center for Systems Science in cooperation with Johns Hopkins University is likely one of the most used sources:

<https://coronavirus-resources.esri.com/>

At this time many national and regional dashboards are offered, such as the Robert Koch-Institut in Germany: COVID-19 Dashboard:

<https://experience.arcgis.com/experience/478220a4c454480e823b17327b2b1d4>

or the Dipartimento della Protezione Civile COVID-19 Italia:

<https://www.arcgis.com/apps/opsdashboard/index.html#/b0c68bce2cce478eaac82fe38d4138b1>

or the Austrian Region of Tirol (Amt der Tiroler Landesregierung Landes-Einsatzleitung): https://experience.arcgis.com/experience/d225672c788d4847b231f1283d63acad/page/page_3/

A number of our colleagues are helping to fill the many gaps on how to cope with the new virus. The dashboard below provided by CON TERRA (2020) allows the spatial differentiation between the presentation of, for example, the 16 German states, or all 294 German counties or the global presentation of Corona infections and recoveries.

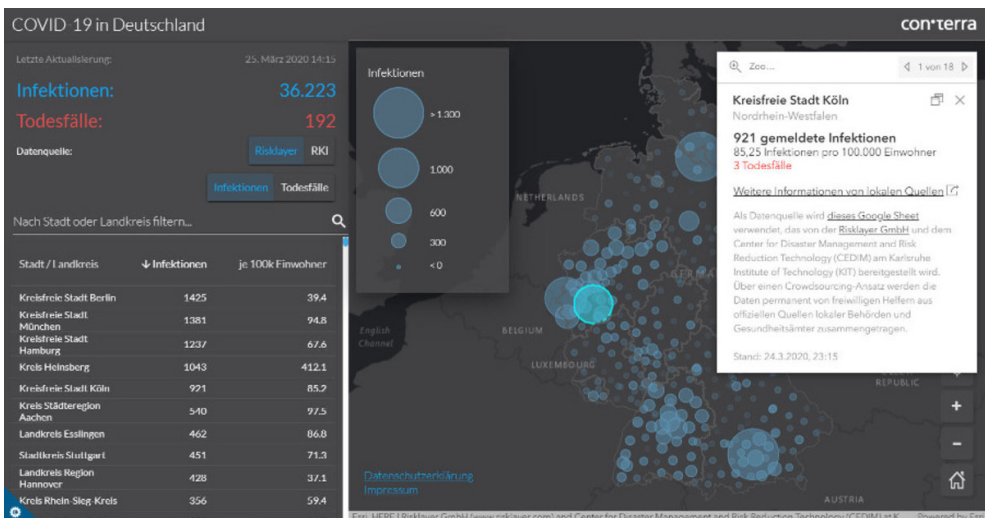


Fig. 3: A new COVID-19 map application – image: con terra (con terra 2020)

Other colleagues, such as ZIPF (2020), are working closely with medical research centers on spatial issues. We see how applied Geoinformation technology can be helpful in mastering this and other global challenges and we fervently hope to find suitable ways out of the current crisis.

References

- CON TERRA (2020), Transparenter Zugriff auf Corona-Daten. Neue Covid-19-Karte der con terra informiert aktuell und anschaulich. <https://www.conterra.de/> (25.03.2020).
- ERVIN, S. (2012), A System for Geodesign. In: BUHMANN, E., PIETSCH, M. & ERVIN, S. (Eds.), Peer Reviewed Proceedings of Digital Landscape Architecture, 2011 & 2012 of Anhalt University of Applied Sciences. Wichmann, Berlin/Offenbach.
- ERVIN, S. (2015), A Proposed Map of a Geodesign Research Agenda: Eleven Key Questions in an Eight-pole Space. In: BUHMANN, E., PIETSCH, M. & ERVIN, S. (Eds.), Peer Reviewed Proceedings of Digital Landscape Architecture 2015 at Anhalt University of Applied Sciences. Wichmann, Berlin/Offenbach, 71-80.
https://gispoint.de/fileadmin/user_upload/paper_gis_open/DLA_2015/537555007.pdf.
- ZIPF, A (2020), Quota for Openrouteservice multi vehicle optimization increased to support logistics during Corona crisis. 02.04.2020).