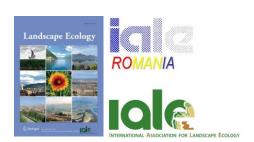# LANDSCAPE ECOLOGY

CALL FOR PAPERS

Special Issue: **Landscape analysis from interdisciplinary approaches towards application of novel technologies**

Guest Editors

Ileana Pătru-Stupariu, Dept. Regional Geography and Environment; Transdisciplinary Research Center Landscape-Territory-Information Systems (CeLTIS), University of Bucharest, Romania

Christine Fürst, Dept. Sustainable Landscape Development, Institute for Geosciences and Geography, Martin Luther University Halle-Wittenberg, Germany

Mihai-Sorin Stupariu, Faculty of Mathematics and Computer Science, University of Bucharest, Romania

Robert M. Scheller, Professor of Landscape Ecology, Dept. Forestry and Environmental Resources, North Carolina State University, Raleigh, NC, USA

Theme & Objective

The aim of this issue is two-fold. We are first looking for contributions in which the interdisciplinary approaches (such as simulations, modelling, object-based analysis, smart infrastructure, interactive planning solutions, and international treaties) are directly applied to a specific problem in landscape analysis. Secondly, the interdisciplinary approaches are directly linked to the use of novel technologies, which could stimulate the development of new research directions or could provide suitable solutions to practical problems. We are looking for contributions that highlight the use of novel technologies in relationship with key topics in landscape ecology.

This special issue will focus on topics such as artificial intelligence, immersive technologies, and participatory mapping technologies, and explore how they could contribute to better understanding the links between the spatial arrangements of the landscape elements and the socio-ecological systems.

➔ **Deadline for First Submission: January 31, 2021**

> ➢ Please follow the submission guidelines.
> ➢ Please submit online via Editorial Manager and select article type "*SI - Interdisciplinary landscape analysis with novel technologies*".

➔ **Expected Publication: September 2021**

About the Guest Editors

Prof. Ileana Pătru-Stupariu is head of the Transdisciplinary Research Center Landscape-Territory-Information Systems (CeLTIS) at the Institute of Research of University of Bucharest, Romania. She is also President and part of the working group of the Romania Chapter of the International Association for Landscape Ecology. Prof. Pătru-Stupariu's detailed résumé can be viewed here.

Prof. Dr. Christine Fürst is Professor for Sustainable Landscape Development at the Martin Luther University Halle-Wittenberg and Head of the European Land-use Institute. She is also a member of the German Chapter and Past President (2015 - 2019) of the International Association for Landscape Ecology. Prof. Dr. Fürst's detailed résumé can be viewed here.

Dr. Mihai-Sorin Stupariu is Associate Professor at the Faculty of Mathematics and Computer Science at the University of Bucharest. He holds a PhD in mathematics (geometry) from the University of Zürich. The opportunity to be involved with interdisciplinary teams as well as the teaching load increased his interest in applicative issues; and to make the switch to geometry in relation to mathematical applications in terrain and landscape modeling and computer graphics and applications. Dr. Stupariu's detailed résumé can be viewed here.

Dr. Robert M. Scheller is Professor of Landscape Ecology at North Carolina State University (NCSU) in the Department of Forestry and Environmental Resources. He is also President (2019 - 2023) of the International Association for Landscape Ecology. Dr. Scheller received his PhD in Forest Ecology from the University of Wisconsin. His research focuses on how landscapes have changed, how they will change, and why it matters. Dr. Scheller's research examines past and future landscape change due to climate change and human activities, management, and values. He has published more than 100 manuscripts and book chapters, and his first book, "Managing Landscapes for Change" (Springer) is due to be published in 2021. Dr. Scheller's detailed résumé can be viewed here.

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