



Nature Conservation

Launched to accelerate biodiversity conservation

CONNECTING PEOPLE,
CONNECTING LANDSCAPES

EDITED BY
CRISTIAN-REMUS PAPP, ANDREAS SEILER,
MANISHA BHARDWAJ, DENIS FRANÇOIS, IVO DOSTÁL



natureconservation.pensoft.net

Nature Conservation 57 ♦ 2024

CONNECTING PEOPLE, CONNECTING LANDSCAPES
Edited by Cristian-Remus Papp, Andreas Seiler, Manisha Bhardwaj, Denis François, Ivo Dostál

Linear transport infrastructure (LTI), particularly roads, railways, and energy networks, are largely responsible for habitat fragmentation, disruption of ecosystem services and, generally, are contributing to the loss of global biodiversity. The current special issue is addressing some of these challenges, focusing on mitigating fragmentation by enhancing landscape connectivity, while working with key stakeholders across relevant sectors.

The Special Issue features selected research and case studies presented during the Infrastructure and Ecology Network Europe (IENE) 2022 International Conference. It consists of papers covering Europe, North America, and Asia, focusing on various infrastructures, including roads, railways, roads and railways combined, waterways and power lines. The key topics addressed by these papers include wildlife crossings, land use near wildlife crossings, ecological connectivity, environmental impact assessments and mitigation measures for LTI, prevention of animal-vehicle collisions, road fencing and electrified barriers, and the role of LTI as wildlife habitat and refuge.

The IENE network holds significant knowledge, experience, and best practices with the potential to effectively integrate biodiversity into transport networks. The outcomes of the conference proceedings, as well as the findings of various studies, such as those presented in this Special Issue, provide valuable insights that can guide both policy and societal transformations.

The journal Nature Conservation was established within the framework of the European Union's Framework Program 7 large-integrated project SCALES: *Securing the Conservation of biodiversity across Administrative Levels and spatial, temporal, and Ecological Scales*, www.scales-project.net



natureconservation.pensoft.net

ISSN 1314-3301 (online) ISSN 1314-6947 (print)



FOUNDER

Lyubomir Penev

Institute of Biodiversity and Ecosystem
Research

Bulgarian Academy of Sciences

Yurii Gagarin Street 2

1113 Sofia, Bulgaria

E-mail: l.penev@pensoft.net

EDITOR-IN-CHIEF

Klaus Henle

Helmholtz Centre for Environmental Research
– UFZ

Leipzig, Germany

DEPUTY EDITOR-IN-CHIEF

Annegret Grimm-Seyfarth

Helmholtz Zentrum für Umweltforschung – UFZ
Leipzig, Germany

EDITOR

Pavel Stoev

National Museum of Natural History at the
Bulgarian Academy of Sciences
Sofia, Bulgaria

EDITORIAL OFFICE

Pensoft Publishers

Prof. Georgi Zlatarski 12, 1700 Sofia, Bulgaria.

Tel. +359-2-8704281, Fax +359-2-8704282

E-mail: natureconservation@pensoft.net

FOCUS AND SCOPE

Nature Conservation is a peer-reviewed, open-access, online and print, rapidly published journal. It is launched to mobilize ideas and data in all theoretical and applied aspects of nature conservation – biological, ecological, social and economic. Its broad scope and innovative use of media encourage interdisciplinary and integrative approaches. All papers published in **Nature Conservation** can be freely downloaded, copied, printed and distributed at no charge to the reader. **Nature Conservation** is a new-generation journal and can be seen as a platform comprising both innovative algorithms and a routine medium for the publication of data related to biodiversity.

Nature Conservation will consider publishing the following types of manuscripts:

- Original research articles
- Comprehensive reviews, historical analyses, ecological modelling and scenarios
- Monographs and collections of papers with no limit in size, published as ‘special issues’
- Applied conservation papers
- Short communications
- Letters and Forum papers
- Trend scanning papers
- Datasets and Data papers
- Web-based tools
- Book reviews

ISBN numbers will be assigned to large monographic papers, monographs, collections of papers, Festschrift volumes, atlases, checklists, conspecti.

All content is Open Access distributed under the terms of the *Creative Commons Attribution License*, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited. Authors are thus encouraged to post the pdf files of published papers on their homepages or elsewhere to expedite distribution.

AUTHOR GUIDELINES

Authors are kindly requested to submit their manuscript *only* through the online submission module at <https://natureconservation.pensoft.net/>. In case of difficulties with the submission procedure, please contact natureconservation@pensoft.net. Full text of author guidelines is available at: natureconservation.pensoft.net/about#Author-Guidelines

EXCERPTS FROM THE GUIDELINES

BODY TEXT. All papers must be in English, checked by a native English-speaking colleague (if author(s) is/are not native English speaker(s)). Write with precision, clarity, and economy: use the active voice and first person whenever appropriate.

WEB (HTML) LINKS. Authors may include links to other Internet resources in their article. This is especially encouraged in the reference section. When inserting a reference to a web-page, please include the **http://** portion of the address.

CITATIONS WITHIN THE TEXT. Before submitting the manuscript, check each citation in the text against the **References** to ensure that they match exactly. Delete citations from the list if they are not actually cited in the text of the article. Citations in the text should be formatted as follows: (Smith 1990) or (Smith et al. 1998; Brock and Gunderson 2001; Felt 2006).

REFERENCES. It is crucial to properly format the references, because all references will be linked electronically as much as possible to the papers they cite. For all references, list all authors. You can include a **DOI** number for the full-text article as an alternative to or in addition to traditional volume and page numbers. Please use the following style for the reference list:

Published Papers: Haila Y (2012) Genealogy of nature conservation: a political perspective. *Nature Conservation* 1: 27–52.

Accepted Papers: Same as above, but “In press” appears instead the page numbers.

Electronic Journal Articles: Mallet J, Willmott K (2002) Taxonomy: renaissance or Tower of Babel? *Trends in Ecology and Evolution* 18 (2): 57–59. [https://doi.org/10.1016/S0169-5347\(02\)00061-7](https://doi.org/10.1016/S0169-5347(02)00061-7).

Paper within conference proceedings: Orr AG (2006) Odonata in Bornean tropical rain forest formations: Diversity, endemism and applications for conservation management. In Cordero Rivera A (Ed.) *Forest and Dragonflies*. Fourth WDA International Symposium of Odonatology, Pontevedra (Spain), July 2005. Pensoft Publishers, Sofia-Moscow, 51–78.

Book chapters: Mayr E (2000) The biological species concept. In: Wheeler QD, Meier R (Eds) *Species Concepts and Phylogenetic Theory: A Debate*. Columbia University Press, New York, 17–29.

Books: Goix N, Klimaszewski J (2007) *Catalogue of Aleocharine Rove Beetles of Canada and Alaska*. Pensoft Publishers, Sofia-Moscow, 166 pp.

Book with institutional author: International Commission on Zoological Nomenclature (1999) *International code of zoological nomenclature*. Fourth Edition. London: The International Trust for Zoological Nomenclature.

PhD thesis: Dalebout ML (2002) *Species identity, genetic diversity and molecular systematic relationships among the Ziphiidae (beaked whales)*. PhD thesis, Auckland, New Zealand: University of Auckland.

Link/URL: BBC News: Island leopard deemed new species. <http://news.bbc.co.uk/> [accessed 3.VI.2008]

CITATIONS OF PUBLIC RESOURCE DATABASES: It is highly recommended all appropriate datasets, images, and information to be deposited in public resources. Please provide the relevant accession numbers (and version numbers, if appropriate). Accession numbers should be provided in parentheses after the entity on first use.

Examples of such databases include, but are not limited to:

- Zoobank (www.zoobank.org),
- Morphbank (www.morphbank.net),
- Genbank (www.ncbi.nlm.nih.gov/Genbank),
- BarCode (www.barcodinglife.org)

Providing accession numbers allows linking to and from established databases and integrates your article with a broader collection of scientific information. Please list all accession numbers directly **after the References**.

DATA PUBLISHING. The journal offers various models of data publishing in a cooperation with the GBIF (www.gbif.org), Dryad (www.datadryad.org), Pangaea (www.pangaea.de) and other data repositories.

OPEN ACCESS FEES. Publication fees in open access journals ensure a barrier-free distribution of your paper at no charge for the readers and include costs involved in processing, formatting, publishing, indexing and archiving your paper.

The journal charges Open Access Publication Fee of EURO 20 per page for papers of less than 100 printed pages. Publication fees for larger papers will be discounted and can be negotiated with the Managing Editor.

Open Access Publication Fees are usually covered by institutional funds and grants. Discounts/waivers can be requested by private and retired zoologists, scientists from low- and middle-level income countries, post-graduate students, especially in case of exceptionally good manuscripts.

Discounts will be offered also to scientists who actively participate in the reviewing and editing process.

Note: *Open access fees will be waived for all submissions published in the first four issues of Nature Conservation and will be reduced with 25 % until the journal will be covered by the ISI Web of Science. All papers published in the first issues will be later ISI covered and will have an Impact factor when the journal receives it.*

PRINTED VERSION. Offprints and printed issues of the journal can be purchased additionally (see journal’s website). For standing orders/subscriptions please contact the Managing Editor.