

Special Issue

AI-Enabled Wildfire Risk Management: Toward Fire-Smart WUI Communities

Message from the Guest Editors

Wildfire risk communication is a critical lever for climate adaptation in forested landscapes and wildland–urban interfaces (WUI). This Special Issue invites research that advances accessible, actionable, and participatory approaches to risk communication, with a focus on hybrid digital–ecological tools. Contributions are sought that:

- Design, deploy, and evaluate AI-driven interfaces for community preparedness and ecological literacy;
- Integrate citizen science with fire-behaviour and habitat data;
- Assess usability, trust, and behaviour change in WUI populations;
- Address data governance, transparency, accessibility, and inclusivity.

Comparative case studies, methodological advances in multimodal data fusion, and frameworks that align FAIR and WCAG standards, support provenance tracking, and address ethical AI are particularly welcome. The Special Issue aims to synthesize evidence to establish robust practices and a translational roadmap for scalable deployments by the 2026 fire season.

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Message from the Editor-in-Chief

Forests (ISSN 1999-4907) is an international and cross-disciplinary, scholarly forestry journal. The distinguished editorial board and refereeing process ensures the highest degree of scientific rigor and review of all published articles. Original research articles and timely reviews are released online, with unlimited free access. Our goal is to have *Forests* be recognized as one of the foremost publication outlets for high quality, leading edge research in this broad and diverse field. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global forestry community.

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