

## 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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### Guest Editors

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### Deadline for manuscript submissions

30 June 2026



## Forests

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