



The role of AI in turbulent times: Challenges, opportunities and best practices for data-driven regional resilience

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Abstract

In an era of economic, environmental and social uncertainty, Artificial Intelligence (AI) is emerging as a transformative tool for promoting regional resilience. AI offers unprecedented opportunities for statisticians, policy makers and data users to analyze complex systems, predict trends and support evidence-based decision making. However, these advances come with challenges, including ethical considerations, data quality issues, and the risk of widening inequalities.

This session will explore how AI can be used to address the pressing challenges of turbulent times, highlighting best practices and successful experiments from regional contexts. By examining case studies and innovative approaches, we will discuss how AI-driven tools can promote sustainable, inclusive and adaptive solutions. The session aims to foster a dialogue on how to balance technological innovation with human-centred decision-making, ensuring that AI contributes effectively to regional development and long-term resilience.

Key topics include

- AI applications in regional and urban planning
- Addressing data quality, transparency and ethical challenges
- Improving policy responses through predictive analytics and machine learning
- Best practices for sustainable, inclusive and data-driven regional governance

This discussion will be particularly relevant for researchers, policymakers, and practitioners seeking to navigate the complexities of the modern era using AI to build resilient and adaptable regions.