

Special Issue

Multicriteria Decision Making for Sustainable Holistic Flood Risk Assessment and Mitigation

Message from the Guest Editors

Multicriteria Decision-Making (MCDM) is a comprehensive framework that includes various methods for structuring, evaluating, and classifying alternative solutions based on multiple criteria. In modern risk analysis, risk is no longer considered solely in probabilistic terms; it is now recognized as a multidimensional concept, reflecting the complexity and diversity of potential impacts. Furthermore, MCDM enables the effective prioritization and ranking of flood risk mitigation measures. A key challenge in its application remains the management of complexity and uncertainty, which are intrinsic to environmental and climate-related decision-making. Additionally, selecting appropriate weight vectors and synthesizing multiple criteria require careful consideration. Emerging techniques may facilitate the incorporation of knowledge from diverse stakeholders, even if their input is semi-qualitative. Overall, MCDM can improve the decision-making process by making it more integrated, transparent, and justifiable. We look forward to receiving your contributions.

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