Disaster Modeling and Management

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Message from the Guest Editors

We invite you to submit your original research or overview papers to this Special Issue on the "Agent-Based and Artificial Intelligence Modelling for Disaster and Emergency Management", in *Quaternary*.

The prime goals of disaster and emergency management (DEM) are to save lives and protect communities and their assets and the environment from natural, technological, and human-made disasters. DEM planning and operations at the mitigation, preparedness, response, and recovery phases can be empowered by advances in new methodologies and technologiesThis issue aims to demonstrate 1) how ABM and AI can change the way we understand, identify, model, assess, and manage risks associated with different natural, technological, and human-made hazards; 2) how ABM and AI can enhance individual, community, national, and global preparedness against large hazardous events; 3) how ABM and AI can be used to assist emergency management agencies and organizations in responding to major disaster events; and 4) how ABM and AI can support disaster relief, short-term and long-term recovery, and reconstruction efforts.

Special Issue

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Message from the Editor-in-Chief

We live in a Quaternary world, that is, a world shaped by the interplay of the different compartments of the earth system—lithosphere, hydrosphere, atmosphere, biosphere, cryosphere—during the last ~2.6 million years. It is not possible to understand the current world—and, hence, to anticipate its possible future developments—without knowing the Quaternary history of drivers, processes, and mechanisms that have generated it. Our own species is an evolutionary outcome of the Quaternary performance. Therefore, the journal *Quaternary* is born with the aim of being an integrative journal to encompass all aspects of Quaternary science focused on understanding the complex world in which we live and to provide a sound scientific basis to anticipate possible future trends and inform environmental policies.

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