

LIFELINE: ON THE SCIENCE & TECHNOLOGY OF SAFETY AND RESILIENCE

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 **Cite this article:** Ma H W, Zheng Y. *Lifeline Emergency and Safety* 2026, 1: 9660001. <https://doi.org/10.26599/LLES.2025.9660001>

LIFELINE! Around us surround the intricate network of systems that sustain modern civilization, including the bridges and tunnels, pipelines and power grids, railways and roads, coasts and estuaries, etc. They constitute the arteries of cities and communities, evidencing the progress and evolution of our daily life. However, within this complexity lies the fragility. That is to say, the natural forces and human errors alike can disrupt the very structures that uphold our civilized existence.

Earthquakes, floods, landslides, tsunamis, storm waves, and failures of design, etc remind us that safety is neither granted nor static, but earned through the vigilance and understanding. In every failure lies a lesson, and in every lesson, a duty, such as to observe, to analyse, to foresee, and to prevent. From these convictions arises the *Lifeline Emergency and Safety*, a timely and innovatively journal devoted to the scientific pursuit of resilience in the face of uncertainty.

This journal stands as a forum for those who seek to unite the theory with practice. It gathers the engineers, researchers, and practitioners who look beyond the surface of stability to the dynamics that govern it. Within its pages shall be presented with the studies on risk detection and evaluation, intelligent monitoring and warning systems, and the development of high-performance

facilities for disaster mitigation. It also welcomes the creation of models and tools that render safety measurable, and of technologies that make foresight attainable.

Our aim is to advance a science that serves the society, transforming data into preparedness, and innovations into protection. Through vigorous interdisciplinary researches, we strive to build an integrated framework of disaster control, emergency response, and intelligent infrastructure. Each individual contribution counts into this endeavour of collective understandings on how the lifelines can endure, adapt, and recover under any kind of adversity.

In spirits of collaboration and inquiry, *Lifeline Emergency and Safety*, invites the global community to share in this endeavour. For the security of our cities, the integrity of our infrastructure, the harmony of our coasts and shores, and eventually the continuity of our human life itself, ALL depend upon the knowledge we build today.

To achieve this magnificent pursuit, we inaugurate this journal as both the scientific enterprise and the shared commitment, to enable human beings migrating to a safer, more resilient world.....

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December 10, 2025

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