

Deutsches Forschungszentrum für Künstliche Intelligenz German Research Center for Artificial Intelligence



Automatic Adaptive Crisis Monitoring and Management System

Strengthening Logistics Resilience, Empowering Decision-Makers

The AKRIMA project aims to strengthen crisis resilience in critical infrastructure, logistics and public authorities. It focuses on extreme events such as pandemics and heavy rainfall, using logistics of protective equipment and materials as an example. AKRIMA enables decision-makers to learn from past crises to improve future management. It provides a cockpit for stakeholders to monitor crises and AI simulations to optimize response strategies. This enables early action to prevent logistics failures and supply shortages in emergencies.



Goal:

Enhance the resilience of critical infrastructures, supply chains, and governmental entities by improving crisis response mechanisms and empowering decision-makers to effectively navigate future crisis situations.

Tags:

- AI-based process analysis and process simulation
- Analysis of crisis response mechanisms
- Analysis of environmental data, identification of affected infrastrucre
- Social simulation







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Cognitive Social Simulation

Publication:

Kaub, D., Lohr, C., David, A. R., Chandan, M. K.D., Chanekar, H., Nguyen, T., Berndt, J. O. & Timm, I. J. (2024). Shortest-Path-Based Resilience Analysis of Urban Road Networks. In Dynamics in Logistics. Proceedings of the 9th International Conference LDIC 2024, Bremen, Germany. Cham: Springer.

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