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Knowledge FOR Resilient soCiEty

Proposed PhD topics

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List of proposed PhD topics



PhD topics

- Collected based on **input** from LU, DTU, AAL, UNIZA, UKIM
- Total of **24 topics** to choose from
- Variety of topic **areas** and **methods** covered:
 - Structural issues, fires, risk assessment, evacuation, PBD, preparedness, social aspects, disaster resilience, etc.
 - Experimental, modelling, theoretical (or combination of methods)
 - They cover both FSE (for different types of buildings and building components) and DRM (e.g. earthquakes, fires, floods, etc.)



List of proposed PhD topics



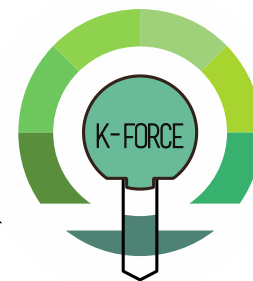
PhD topic descriptions

Each topic is presented with a set of information. This includes:

- **Title**
- **General description**
- **Objectives**
- **Key references**



List of proposed PhD topics

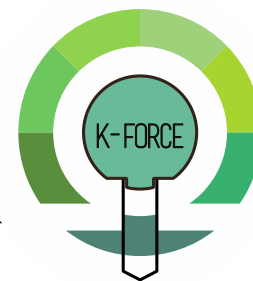


PhD topic (1-12)

PhD topic #	Title
1	Risk mitigation of post-earthquake fire in urban buildings
2	Performance of reinforced concrete structures subjected to post earthquake fire
3	Neural network approach for risk assessment in construction projects
4	Determination of fire resistance of civil engineering structures using artificial neural networks
5	Evacuation strategies and design for complex buildings in WBC
6	Assessing the suitability of performance-based strategies in underground infrastructures in Western Balkan Countries
7	Crowd management for high density outdoor events
8	Traffic modelling as decision support for large-scale disasters
9	Risk-informed approach to fire safety design
10	Advanced computer fire modelling
11	Fire-safe building exterior cladding
12	Early fire detection and alarm: a pre-requisite for safe evacuation



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PhD topic (13-24)

PhD topic #	Title
13	Dynamic risk assessment of fire scenarios in complex infrastructures
14	Modelling fire risks of modern cars in car parks
15	Vulnerability of reinforced concrete bridges to truck fires
16	Identification of efficient disaster management strategies
17	Household preparedness for crises and disasters
18	Enhancing the treatment of creeping crises
19	Mapping networks involved in the management of crises
20	Inclusive egressibility in disasters
21	On the Role of Social Cohesion in Natural Hazards Risk Management
22	Resilience Modeling for Insurance Based Financing of Risks due to Natural Hazards
23	Information Management in Disaster Risk Reduction
24	Value of Information in Natural Hazards Risk Management



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PhD topics discussion

See attached document with description of PhD topics

For discussion

- How many topics should be included in the final list?
- Are we covering all needed areas?
- Any comments on specific topics?





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Thank you
for your attention

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