International Journal of

Lifecycle Performance Engineering

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Scope of the Journal

ISSN: 2043-8648 (Print), ISSN: 2043-8656 (Online)

IJLCPE is founded on the basis that everyone in the design, construction and management of civil structures should consider that each decision made and each action taken is constrained by limited resources. It is vitally important that they take into account that structures have a finite lifetime and are involved in an aging process whereby slow degradation and sudden environmental threats play a role and risk evolves to higher values, implying additional costs. Structural performance thus becomes a "lifecycle performance".

Topics covered include:

- Damage evolution and risk analysis
- Time dependent structural performance and lifecycle behaviour
- Environmental threats (earthquakes, floods, strong winds), residual safety analysis
- Fatigue
- Corrosion
- Degradation and aging of structural materials
- Robustness and vulnerability to local explosions and fires
- Infrastructural and urban system resilience
- Lifecycle oriented design criteria
- Maintenance planning
- Lifecycle and retrofit
- Safety assessment by structural health monitoring
- Case studies

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