



IALCCE 2018

October 28-31, 2018

The Sixth international Symposium
On Life-Cycle Civil Engineering

Ghent - Belgium





In 2018 Ghent University will host the sixth bi-annual IALCCE symposium on Life-Cycle Civil Engineering in Ghent, Belgium. The mission of IALCCE 2018 is to bring together all cutting edge research in the field of Life-Cycle Civil Engineering and to advance both the state-of-the-art and state-of-practice in the field.

Symposium theme:

Towards an Integrated Vision for Life-Cycle Civil Engineering

Topics:

Life-Cycle based Design in Civil Engineering

Applied structural reliability and risk based design, risk management, design for durability, life-cycle analysis of sustainability, innovations in sustainable materials, performance based material design, target safety levels considering life-cycle measures, integrated design approaches, design for robustness, design for resilience, performance based life-cycle engineering, uncertainty modelling, analysis and prediction, life-cycle based analysis considering climate change, modelling of damage processes (corrosion, fatigue, sulphate attack, etc.), severe and combined environmental effects, modelling of time-dependent behaviour, modelling of long-term behaviour, life-cycle based design for fire safety, life-cycle based planning and design, BIM techniques enabling life-cycle engineering

Inspection, Testing and Monitoring for Life-Cycle Civil Engineering

Damage identification, structural health monitoring techniques, field testing and proof loading, inspection of system behaviour, quantification of the value of structural health monitoring, standardization of testing methods, determination of inspection strategies, selection of monitoring techniques, determination of performance indicators, aviation based monitoring and inspection, robotic and aviation-based techniques for structural health monitoring

Life-Cycle Assessment

of Existing Structures and Infrastructures

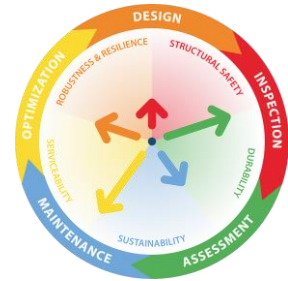
Deterioration prediction updating, Bayesian updating of prediction models, full-probabilistic assessment methods, partial factor based assessment, assessment of cultural heritage, assessment of structural robustness, determination of residual working life, Bayesian updating of lifetime prediction models, decision making on the basis of inspection and monitoring, standardization of inspection approaches, computer-based assessment for large asset management

Life-Cycle Maintenance and Rehabilitation

Maintenance strategies, rehabilitation techniques, repair and strengthening methods, serviceability based criteria for interventions, sustainable repair measures, performance based selection of repair strategies, threshold levels for performance indicators, target safety levels for upgrading, strengthening for robustness

Life-Cycle based Optimization

Integrated approaches to life costing, economics of life-cycle engineering, life-cycle cost models and analysis, life-cycle optimization methods, optimization in decision making, optimization of material design, optimization of the value of information, selection of amount of measurements, optimization of inspection intervals, computer-based structural optimization, economic risk and decision basis, asset management and optimization



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28-31 October 2018, Ghent - Belgium

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Call for Abstracts

Authors willing to present a paper at the symposium are kindly invited to submit a **300 word abstract** in accordance with the themes and topics **before June 30, 2017** through the online submission system available on the symposium website. A comprehensive list of Mini-Symposia and Special Sessions is available on the symposium website. Authors of accepted abstracts will receive instructions on the preparation of full-length papers. All submitted abstracts and papers will be fully peer-reviewed by the International Scientific Committee. Accepted papers will be published in the conference proceedings and authors will be required to give an oral presentation at the event.

Academic Partners



Supporting Associations



Important Dates:

Deadline Abstract Submission	June 30, 2017
Preliminary Abstract Acceptance	August 31, 2017
Deadline Full Paper Submission	January 31, 2018
Final Paper Acceptance	March 31, 2018
Deadline Early Bird Registration	May 31, 2018

IALCCE 2018 Secretariat

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