ISRMES 2019

INTERNATIONAL SYMPOSIUM ON RELIABILITY OF MULTI-DISCIPLINARY ENGINEERING SYSTEMS UNDER UNCERTAINTY

多領域工程系統可靠度及風險管理國際研討會

SUN, DEC. 8

18:00-20:00
Welcome Reception
(Venue: Howard Civil Service International House)

MON, DEC. 9

08:00 Registration

09:00 Opening Ceremony

09:30 Keynote Speech
Reliability-based Optimal Design of Civil Infrastructure Systems
Speaker: Prof. Alfredo H-S. Ang | Chair: Prof. Shi-Shuenn Chen

10:00 Keynote Speech
Performance-Based Engineering of Buildings For Natural Hazards: Practical Implementation of Reliability and Risk-informed Decision
Speaker:Prof. Bruce R. Ellingwood | Chair: Prof. Shi-Shuenn Chen

10:30 Coffee Break

11:00 Keynote Speech
Reliability, Risk, Resilience And Sustainability of Infrastructure Systems
Speaker: Prof. Dan Frangopol | Chair: Prof. Alfredo H-S. Ang

11:30 Keynote Speech
Reliability Assessment of Wind Energy Structures
Speaker: Prof. John Dalsgaard Sørensen | Chair: Prof. Alfredo H-S. Ang

12:00 Keynote Speech
Toward Reliable Design for Mitigating Operational Risk in Wind Energy Projects
Speaker: Prof. Jui-Sheng Chou | Chair: Prof. Alfredo H-S. Ang

12:30 Lunch Break

13:30-14:50 Organized Sessions

MA1
Structural Resilience and Reliability
Chair: Prof. Yangang Zhao

MB1
Engineering System Risks Under Extreme Storm Conditions
Chair: Prof. Limin Zhang

14:50 Coffee Break

15:20-17:30 Organized Sessions

MA2
Reliability on Offshore Wind Power Engineering
Chairs: Prof. John Dalsgaard Sørensen
Prof. I-Tung Yang

18:00-20:30
Banquet @La mar'ee

TUE, DEC. 10

08:00 Registration

09:00 Keynote Speech
Measures of Component Importance in System Reliability Analysis
Speaker: Prof. Armen Der Kiureghian | Chair: Prof. Dan Frangopol

09:30 Keynote Speech
Life-Cycle Reliability Analysis of Engineering Structures
Speaker: Prof. Jie Li | Chair: Prof. Dan Frangopol

10:00 Keynote Speech
Min-Max Formulation for Topology Optimization of Structures subjected to Stochastic Excitation
Speaker: Prof. Billie Spencer | Chair: Prof. Dan Frangopol

10:30 Coffee Break

11:00 Keynote Speech
Structural Reliability Analysis Without Exclusion of the Epistemic Uncertainty in Distribution Parameters
Speaker: Prof. Yangang Zhao | Chair: Prof. Kok Kwang Phoon

11:30 Keynote Speech
Constructing Site-specific Multivariate Probability Distribution Model: Hybridization versus Hierarchical Bayesian Analysis
Speaker: Prof. Jianye Ching | Chair: Prof. Kok Kwang Phoon

12:00 Keynote Speech
Chicken (Method) and Egg (Data) - Which Comes First?
Speaker: Prof. Kok Kwang Phoon | Chair: Prof. Shi-Shuenn Chen

12:30 Lunch Break

13:30-14:50 Organized Sessions

TA1
Reliability-based Codes for Design and Maintenance
Chair: Prof. Sang-Hyo Kim

TB1
Reliability of High-Speed Railway Systems
Chairs: Prof. Zhao-Hui Lu
Prof. Yangang Zhao

14:50 Coffee Break

15:20-16:40 Organized Sessions

TA2
Seismic Risk Assessment for A Resilient City
Chair: Prof. Yin-Nan Huang

TB2
Taiwan Road Disaster Prevention and Maintenance Strategy
Chair: Prof. Min-Yuan Cheng

16:40-18:00 Organized Sessions

TA3
Reliability of Civil Infrastructure Systems Under Stochastic Environment
Chair: Prof. Junho Song

TB3
Stochastic Dynamics of Nonlinear Structures
Chair: Prof. Jianbing Chen

WED, DEC. 11

08:00 Registration

09:00 Keynote Speech
Gaussian Mixture Based Equivalent Linearization Method (GM-ELM): Genesis, Developments and Earthquake Engineering Applications
Speaker: Prof. Junho Song | Chair: Prof. Yangang Zhao

09:30 Keynote Speech
A new PDEM-consistent functional perspective to the response and reliability of structural systems involving uncertainty parameters
Speaker: Prof. Jianbing Chen | Chair: Prof. Yangang Zhao

10:00 Keynote Speech
Time-Dependent Reliability Assessment Of High-Speed Railway Ballastless Track-Bridge Structural System
Speaker: Prof. Zhao-Hui Lu | Chair: Prof. Yangang Zhao

10:30 Coffee Break

11:00 Organized Sessions

FA1
Risk-based Design and Maintenance of Infrastructures Against Natural Hazards
Chair: Prof. Kuo-Wei Liao

12:20 Closing Ceremony

12:30 Lunch Break

13:30
Post-Symposium Tour
-Danjiang Bridge-

Venue
- IB101
- IB201
- IB202

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