# CSHM Workshop program

## 12 Feb. 2024

### Session 1: SHM supported seismic resilient design of infrastructure

<table>
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<tr>
<th>Guests of honor ceremony Opening</th>
<th>Int. Keynote</th>
<th>Local experience presentation/papers</th>
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<tbody>
<tr>
<td>9:30-10:15</td>
<td>10:30-11:15</td>
<td>11:30-1:00</td>
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- National Anthem
- Quran Kareem
- Welcome Speech of Chairman KSE
- Welcome Speech of Minister
- Welcome Speech by Local Committee Chair
- Welcome Speech President SCSHM
- MOU signing
- Award ceremony

**SCSHM President, Prof. W. Leinhart**, Professor and Head of the Institute of Engineering Geodesy and Measurement Systems (IGMS) at Graz University of Technology, Austria

Title: Dynamic Measurements of Seismic Events and Vibration Monitoring of Structures with Distributed Fiber Optic Sensing

**KISR experience in SHM**

Dr. Shaikha AlSanad, Dr. Hasan Kamal, Eng. Jamal AlQazzweeni, Dr. Jafarali Parol, Dr. Abdullah AlEnezy

Title: Ensuring Structural Integrity: Case Studies in Kuwait’s Tall Buildings and Bridges – Insights from the Experts

**Chair: Dr. H. Kamal**

**Co-Chair: Eng. A. Mohseni**

**Chair: Dr. M. AlKhamees**

**Co-Chair: Prof. S. Nagarajaiah**

### Session 2: AI applications in SMH

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<td>2:00-2:45</td>
<td>3:00-4:30</td>
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**Prof. Satish Nagarajaiah**

Professor of Civil Eng., Professor of (Mechanical Eng. & MSNE Dept. of Civil & Env. Eng. Dept. of Mech. Eng. & Dept. Mat. Sc. Nano Eng Rice University

Title: AI, Machine Learning and Computer Vision Algorithms for Structural System Identification and Integrity Assessment: Physics-Guided Models and Data-Driven Discovery

**Embedded Systems & Sensors Workshop**

Presented by: KARS

Dr. Abbas Fairouz and Dr. Abdullah AlShibany, Computer Engineering Department, Kuwait University

[https://www.instagram.com/kars.kwt](https://www.instagram.com/kars.kwt)

**Chair: Dr. M. Chaudhary**

**Co-Chair: Dr. Jafer Ali**

**Chair: Dr. M. AlFailikawi**

**Co-Chair: Dr. Waleed Eid**
13 Feb. 2024

### Session 3: Seismic code applications in low seismicity regions

<table>
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<th>Time</th>
<th>Int. keynote</th>
<th>Int. Keynote</th>
<th>Local experience presentation/papers</th>
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| 9:30-10:15 | Dionysius M. Siringoringo  
Associate Professor  
Safety and Resilience of Infrastructure and Infrastructure System, Institute of Advanced Sciences (IAS), Yokohama National University  
Title: Monitoring and Structural Assessment of Instrumented Cable-Stayed Bridges Using Recorded Seismic Responses | Dr. Piotr Omenzetter  
Civil Engineering Department  
University of Aberdeen, UK  
Title: Quantification of SHM benefits and costs using the theory of value of information | Panel discussion: Seismic design code  
Union of Local Engineering offices, Kuwait Municipality, Gulf Consultants, Pace, Civil Engineering Department KU |
| 10:30-11:15 |              |              |                                       |

Chair: Prof. Lienhart  
Co-Chair: Dr. Shaikha AlSanad

Chair: Dr. M. Zaki  
Co-Chair: Eng. Abdullah AlAzmi

Moderator: Dr. Chaudhary

### Session 4: State of the art in SHM

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<tr>
<th>Time</th>
<th>Presentation papers</th>
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<tr>
<td>2:00-3:30</td>
<td>Parallel sessions</td>
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Session 1: Chair: Dr. Dionysius M. Siringoringo  
Dr. Piotr Omenzetter  
Co-Chair: Abdullah AlMutairi  
Thamer AAllYaqoub

Session 2: Chair: Dr. Piotr Omenzetter  
Co-Chair: Dr. Thamer AAllYaqoub
### Session 5: Case studies in SHM application

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<th>Time</th>
<th>International Keynote</th>
<th>Local Experience</th>
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| 9:30-10:15 | Prof. M. Zaki  
Head of Bridge & Structures Assessments Unit - Dar Al-handasah, MENA IAS/ICC Lead & Technical Assessor of Testing Facilities, USA  
V. Head Elect of Arab Disaster Risk Reduction Center, League of Arab States, LAS  
Title: Bridge & infrastructure assessments, testing & monitoring theme efforts in Mena region | Dr. Waleed Abdullah  
Dr. Waleed Eid  
Civil En9:30-10:15gineering Department  
College of Engineering and Petroleum  
Kuwait University  
Title: Experience with SHM in Pavement Management Systems | Panel meeting SCSHM-KSE  
SCSHM local office inauguration  
Close out meeting  
SCSHM new offices at KSE headquarters |
| 10:30-11:15 | Local experience | SCSHM meeting |
| 12:30-1:30 | SCSHM meeting | SCSHM meeting |

Chair: Prof. S. Nagarajaiah  
Co-Chair: Jafarali Parol

Chair: Dr. M. AlKhaldi  
Co-Chair: Eng. Abdullah AlAzmi

Moderators: Dr. Waleed Abdullah  
Dr. H. Kamal

Official Lunch by KSE