ISNVH: Integrating Seamlessly NVH
NVH in the era of connected and automated vehicles

Content Overview

Topics:
- Flow Noise & Aeroacoustics
- Full Vehicle NVH: Sound & Noise Sources
- Full Vehicle NVH: Electrification
- Full Vehicle NVH: Body
- Active Noise & Vibration Control
- Material Characterisation and Modelling + Acoustic Metamaterials
- Inverse Methods in Structural Acoustics
- Sound Absorption & Insulation
- Machine Learning & Data Science for NVH
- Powertrain, Transmission & Drivetrain
- Noise & Vibration Quality and Perception, Sound Design
- Modelling Techniques & Virtual Prototyping

November 4, 2020

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<td>20SNVH-0092 / 2020-01-1520  Tire NVH Optimization for Future Mobility  Rahul R. Sanghani; CEAT Ltd.</td>
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<td>20SNVH-0120 / 2020-01-1575  CAE Support to Vehicle Audio Installation Issues  Andrzej Pietrzyk; Volvo Car Corporation</td>
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<td>20SNVH-0127 / 2020-01-1519  Innovative Material Characterisation Methodology for Tyre Static and Dynamic Analyses  Bharath Anantharamaiah; Applus + Idiada Group</td>
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  Ki-Sang Chae, Hyundai Motor Company

- **20SNVH-0018 / 2020-01-1525**
  Sound Field Synthesis by Synthetic Array (SFS-SA) for Diffuse Field or TBL Structural Excitation
  Jean-Louis GUYADER, SONORHC Technologies

- **20SNVH-0016 / 2020-01-1526**
  Resabtors - Advanced Multi-Material Muffler Designs for Clean Air Applications
  Ralf Buck; Umfotec GmbH

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**Full Vehicle NVH: Body**

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  Multi-domain NVH Model for the Complete Electromechanical Power Unit
  Yashwant Kolluru; Robert Bosch GmbH

- **20SNVH-0046 / 2020-01-1551**
  NVH Comfort of Range Extenders for Electric Vehicles
  Christoph Steffens; FEV Europe GmbH

- **20SNVH-0048 / 2020-01-1552**
  Inverse Vibration Problem Used for the Characterization of the Damping Added by a Trim Foam on a Plate
  Meryem Le Deuff; CEVAA, LAUM

**Session 114**

**Machine Learning & Datascience for NVH**

- **20SNVH-00063 / 2020-01-1580**
  Inverse Vibration Problem Used for the Characterization of the Damping Added by a Trim Foam on a Plate
  Meryem Le Deuff; CEVAA, LAUM

- **20SNVH-00088 / 2020-01-1582**
  Inverse Characterization of Vibro-Acoustic Subsystems for Impedance-Based Substructuring Approaches
  Jean-Louis Guyader; INSA-Lyon / LVA

- **20SNVH-00109 / 2020-01-1579**
  Coarse Mesh RIFF Method to Identify the Homogenized Flexural and Shear Complex Moduli of Composite Beams
  Thibault Wassereau; Sonorhc Technologies

- **20SNVH-00138 / 2020-01-1541**
  Experimental Rattle Source Characterization Using Matrix Inversion on a Reception Plate
  Eugene Nijman; VIRTUAL VEHICLE

- **20SNVH-00030 / 2020-01-1565**
  A Diagnostic Technology of Powertrain Parts that cause Abnormal Noises using Artificial Intelligence
  Insoo Jung; Hyundai Motor Company

- **20SNVH-00048 / 2020-01-1566**
  Akihito Akai; Hitachi, Ltd.
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<td>Mohsen Bayani Khaknejad; Volvo Car Corporation</td>
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<td>Vlad Somesan; BMW Group</td>
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**Keynotes:**

**Thomas Antoine**  
Renault Nissan Mitsubishi Alliance

**Prof. John Mottershead**  
The University of Liverpool  
**Active Vibration Control based on Modal Test Data**

**Prof. Kon-Well Wang**  
University of Michigan  
**Learning from Nature – Adaptive Metastructures for NVH**

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Please stay tuned for more information.  
And above all - take care & stay healthy!
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