

## List of papers



### **IOMAC 2017**

#### **International Operational Modal Analysis Conference**

Ingolstadt, Germany, May 2017

8-9 MAY 2017, Preconference OMA Course

10-12 MAY 2017, 7th IOMAC Conference

### Keynote Lectures

- *Marc Böswald*, DLR Göttingen Germany “NEW CONCEPTS FOR GROUND AND FLIGHT VIBRATION TESTING OF AIRCRAFT BASED ON OUTPUT-ONLY MODAL ANALYSIS”
- *Masaaki Okuma*, Tokyo Institute of Technology, “DEVELOPMENT OF A DEFLECTION MONITORING SYSTEM FOR WIND TURBINE BLADES”
- *Daniel Rixen*, Technical University Munich, “PREDICTING IN-OPERATION DYNAMICS BY ASSEMBLY OF MEASURED COMPONENTS”

### Special Tutorial

*Håvard Vold*, The Vold-Kalman Order Tracking Filter - Implementation and Applications

### List of session papers (preliminary)

<b>1st author</b>	<b>Institution</b>	<b>Title</b>
Amador	Technical University of Denmark	Application of the derivative half spectral density in OMA
Bekker	Stellenbosch University	Modal analysis of a hyperelastic membrane for the development of a musical instrument
Bernagozzi	University of Bologna	Comparison of OMA techniques and effect of added masses on the modal properties of a small steel frame
Botz	Technical University of Munich	Modal Analysis of a wind turbine tower with concrete-steel hybrid design during installation of Rotor and Generator
Brandt	University of Southern Denmark	Using three-parameter sine fitting for scaling mode shapes with OMAH
Brattstroem Wagner	Pontificia Universidade Católica do Rio de Janeiro	The robust smooth orthogonal decomposition method for operational modal analysis
Cara	Universidad Politecnica de Madrid	Input/output versus output only modal analysis of a stress-ribbon footbridge
Celik	Middle East Technical University	Forced and Ambient Vibration Tests of a Six-Story Precast Concrete Building
Chan	National Chung Hsing University	Position-dependent modal testing of CNC machine tools using operational modal analysis

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Coppotelli	University of Rome "La Sapienza"	A Method for the Estimate of Modal Parameters of Time-Dependent Aerospace Structural Systems using Operational Data
DABANLI	FATIH SULTAN MEHMET VAKIF UNIVERSITY	OPERATIONAL MODAL ANALYSIS OF AN 18th CENTURY OTTOMAN MONUMENT IN ISTANBUL: EYUP MOSQUE
Di Lorenzo	Siemens Industry Software NV	Operational Modal Analysis for rotating machines: challenges and solutions
Döhler	Inria Rennes	Variance computation of modal parameter estimates from UPC subspace identification
Döhler	Inria Rennes	A Statistical Framework for Output-Only Damage Localization with Influence Lines
El-Kafafy	Vrije Universiteit Brussel	Optimal modal parameters estimation from operational data using the iterative MLMM Method
Ercan	Ege University	Finite Element Model Updating of a Historical Minaret via Operational Modal Analysis
Fernández	Technical University of Madrid (UPM)	OPERATIONAL MODAL ANALYSIS WITH EXOGENOUS INPUTS USING INSTRUMENTED INSOLES
Fernández	Technical University of Madrid (UPM)	DYNAMIC STUDY OF A CULVERT FOR HIGH-SPEED TRAIN LINES
Foti	Polytecnic of Bari	Dynamic monitoring and identification of a new Italian cable-stayed bridge during dynamic load tests
Foti	Technical University of Bari	Preliminary OMA results on a soft calcarenite stone bell-tower in Mola di Bari (Italy)
Grosel	Wroclaw univ. of Technology	EVALUATION OF RESULTS' ERROR IN OMA
Gwashavanhu	University of Pretoria	Use of statistical shape analysis as a optical non-contact method for condition monitoring of turbomachines
Hansen	Aarhus University	Application of a Modal-driven Damage Assessment Framework for Ice Localization and Quantification on Wind Turbine Blades
Hermanns	Technical University of Madrid	An instrumented insole for monitoring and acoustic positioning of human loads
Hu	University of Rhode Island	Estimating Frequency Response Functions by Pole-Residue Operations
Juul	Aarhus University	OMA Modal Indication By Sensitivity To Added Artificial Noise
Kashani	Aerospace Research Institute/Ministr	Model Updating Based Nonlinear Joint Identification in Structures under Random Excitation

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	Field of research, science and technology	
Lopez Aelle	University of Oviedo	DAMPING RATIOS OF MONOLITHIC GLASS USING OPERATIONAL MODAL ANALYSIS
Lopez Aelle	University of Oviedo	DAMPING OF LAMINATED GLASS BEAMS WITH POLYVINIL BUTIRAL INTERLAYER
Lopez Aelle	University of Oviedo	A METHODOLOGY TO VALIDATE SIMPLY-SUPPORTED STRUCTURES BEFORE THE FINAL ASSEMBLY
Lopez Aelle	University of Oviedo	CALCULATION OF DYNAMIC STRESSES IN VISCOELASTIC SANDWICH BEAMS USING OPERATIONAL MODAL ANALYSIS
Luegmair	ARRK Engineering	Deviations of Measured Damping Coefficients Caused by Different Estimation Algorithm for Modal Analysis Results
Marwitz	Bauhaus University Weimar	Cross-Evaluation of Two Metrics for the Assessment of Estimated State-Space Systems in Operational Modal Analysis
Melnikov	SBS Bühnentechnik GmbH	Determination of Static Stiffness of Mechanical Structures from Operational Modal Analysis
Mironov	Vibroacoustic laboratory	OMA techniques optimization for SHM of typical industrial structures
Montalvao	Bournemouth University	And yet another method for the identification of Modal Constants in Experimental Modal
Nabavian	Babol University of Technology	Determining minimum number of required accelerometer for output-only structural identification of frames
Olsen	Aarhus University	Stability Diagrams using Operational Modal Analysis and Sliding Filters
Paeschke / Kamenzky	University of Applied Sciences Wildau	LEx - Levitation and Excitation Method for Operational Modal Analysis
Peeters	Siemens Industry Software	Identifying the structural behaviour of a specimen during spacecraft acoustic testing by Operational Modal Analysis
Poprawa	Silesian University of Technology	OPERATIONAL MODAL ANALYSIS IN MODEL UPDATING OF TRUSS RAILWAY BRIDGE
QI	The University of Hong Kong	Experimental construction of mode shapes of a simply supported bridge by using dynamic responses extracted from a moving vehicle under impact excitation
Rachholz	University of Rostock	Application of Operational Modal Analysis to Wind Turbines

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Rainieri	University of Molise	Experimental validation of the effectiveness of automated OMA for structural health monitoring of existing bridges in seismically prone areas
Sabamehr	Concordia University	Model Updating and Parameter Identification of a Steel Cantilever Beam using Forced and Ambient Vibration Responses in Different Conditions
Sancibrian	University of Cantabria	Monitoring historical masonry industrial chimney by means operational modal analysis: A case study
Saudi	Housing and Building National Research Center	Experimental modal identification of full- scale wind turbine towers
Schneider	KÖTTER Consulting Engineers Berlin GmbH	Application of Operational Modal Analysis to Industrial Machinery and Plants
Wojcicki	Wroclaw univ. of Technology	WIND LOAD OF CHRIST THE KING MONUMENT