Proceedings of ISMA2006

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Reduced modal models and negative concept modifications in dynamic analysis
E. Mucchi, University of Ferrara, Italy
S. Donders, R. Hadjit, LMS International, Belgium
W. Desmet, P. Sas, Katholieke Universiteit Leuven, Belgium

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F. Pilla, H.J. Rice, Trinity College of Dublin, Ireland

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P. Silar, A. Hepberger, ACC Acoustic Competence Center G.m.B.H., Austria
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Energy ratio approach for SEA model path identification
G. Diodati, P. Vitiello, Italian Aerospace Research Center, Italy

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L. Dozio, W. Corbetta, E. Vigoni, A. Forghieri, G.L. Ghiringhelli, Politecnico di Milano, Italy
F. Cenedese, AgustaWestland, Italy

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R. Guastavino, P. Göransson, KTH Kungliga Tekniska Högskolan, Sweden
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A. Perazzolo, F. Cenedese, AgustaWestland, Italy

Hybrid Modelling of a helicopter gearbox using Inverse Boundary Elements Method
A. Vecchio, LMS International, Belgium
F. Cenedese, AgustaWestland, Italy
C. Urbanet, University of Rome “La Sapienza”, Italy

Experimental Noise Transfer Path Analysis on Helicopters
A. Vecchio, LMS International, Belgium
C. Urbanet, University of Rome “La Sapienza”, Italy
F. Cenedese, AgustaWestland, Italy

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Current Status and Challenges for Flight Flutter Testing
A.A. Abbassi, J.E. Cooper, University of Manchester, United Kingdom

Quantification of Asymmetric In-Flight LCO Response and Prediction using Neural Networks
K. Dawson, D. Maxwell, TYBRIN Corporation, United States of America

Recursive subspace identification for in-flight modal analysis of airplanes
K. De Cock, Katholieke Universiteit Leuven, Belgium
G. Mercère, Laboratoire d’Automatique et d’Informatique Industrielle, France
B. De Moor, Katholieke Universiteit Leuven, Belgium

Fast Derivation of Uncertainty Bounds for On-line Flight Flutter Testing
T. De Troyer, Erasmushogeschool Brussel, Belgium
P. Guillaume, R. Pintelon, Vrije Universiteit Brussel, Belgium
B. Peeters, LMS International, Belgium

Output-only Technique for Estimation of Nonlinear System Parameters for In-flight Test Application
J. Iwaniec, T. Uhl, AGH - University of Science and Technology, Poland

An experimental investigation of the subsonic stall flutter
J. Li, N. Andrinopoulos, G. Dimitriadis, University of Manchester, United Kingdom

When is a pole spurious?
I. Markovsky, J. Boets, B. Vanluyten, K. De Cock, B. De Moor, Katholieke Universiteit Leuven, Belgium

In-flight modal analysis - a comparison between sweep and turbulence excitation
B. Peeters, LMS International, Belgium
T. De Troyer, Erasmushogeschool Brussel, Belgium
P. Guillaume, Vrije Universiteit Brussel, Belgium
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The use of wavelet transform for in-flight modal analysis
T. Uhl, A. Klepka, AGH - University of Science and Technology, Poland
## Detection of turbulence during flutter tests

P. Vacher, A. Buchales, ONERA, France

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## CUSUM test for flutter monitoring of modal dynamics

R. Zouari, L. Mevel, M. Basseville, Institut de Recherche en Informatique et Systèmes Aléatoires, France

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Identification of random field models for elastic moduli from spectral analysis of compression wave experiments

M. Arnst, Q. Anh Ta, D. Clouteau, Ecole Centrale de Paris, France

M. Bonnet, Ecole Polytechnique, France

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An iterative coupled boundary-finite element method for the dynamic response of structures

S. François, H.R. Masoumi, G. Degrande, Katholieke Universiteit Leuven, Belgium

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Soil induced vibrations due to high-speed trains considering dynamic interaction and ballast effects

P. Galván, J. Domínguez, Universidad de Sevilla, Spain

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Seismic damage detection in existing buildings by finite element model updating

P. Gundes Bakir, E. Reynders, G. De Roeck, G. Degrande, Katholieke Universiteit Leuven, Belgium

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A numerical model for ground-borne vibrations and reradiated noise in buildings from underground railways

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H.E.M. Hunt, University of Cambridge, United Kingdom

D. Clouteau, Ecole Centrale de Paris, France

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A new physical approach to generate a seismic excitation

S. Lignon, L. Jézéquel, Ecole Centrale de Lyon, France

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M. Ajovalasit, J. Giacomini, Brunel University, United Kingdom

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Measurement of human-structure interaction in vertical and lateral directions: a standing body
E. Duarte, T. Ji, University of Manchester, United Kingdom

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J.D. Keske, J.R. Blough, Michigan Technological University, United States of America

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H. Horii, CD-adapco JAPAN Co., LTD., Japan

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P. Berry, S. Capponi, A. Fabbri, University of Bologna, Italy

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L. Bregant, Università di Trieste, Italy
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High Channel Count Systems Architecture for Noise and Vibration Measurements
T. Debelle, K. Veggeberg, National Instruments, United States of America

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P. Kohut, P. Kurowski, M. Szwedo, AGH - University of Science and Technology, Poland

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H.-E. de Bree, Microflown Technologies / HAN University, The Netherlands
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W. Desmet, Katholieke Universiteit Leuven, Belgium
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**Medium and high frequency techniques**

**Session MHF**

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J. Antoni, Université de Technologie de Compiègne, France
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A Review of Experimental Modal Analysis Methods with respect to their Applicability to Test Data of Large Aircraft Structures
M. Böswald, D. Göge, U. Füllekrug, Y. Govers, Deutsches Zentrum für Luft- und Raumfahrt e.V., Germany

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P.M. Daborn, P.R. Ind, A. Tribe, K. Garraway, AWE, United Kingdom

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G. De Sitter, P. Guillaume, Vrije Universiteit Brussel, Belgium

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Y. Feng, S. Yang, China Academy of Space Technology (CAST), China

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D. Johnson, J. Van Karsen, J.R. Blough, M. Rao, Michigan Technological University, United States of America
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A. Macaire, EADS SPACE Transportation, France
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A.F. Nicula, C. Mohr, A. Anstätt, LuK GmbH &Co.oHG, Germany

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T. Smirnova, H. Åkesson, L. Håkansson, I. Claesson, Blekinge Institute of Technology, Sweden
T. Lagö, Acticut International AB, Sweden
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The Fuzzy Parameterization Method for Model Updating: Application to Welded Joints

**O. Ait-Salem Duque**, Polytechnic University of Madrid, INSIA, Spain

**M. De Munck, A. Stenti, D. Moens**, Katholieke Universiteit Leuven, Belgium

**A.R. Senín**, Nebrija University, Spain

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**A. Hanke, G. Schlottmann**, University of Rostock, Germany

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**M. Link**, University of Kassel, Germany

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**C. Mares**, Brunel University, United Kingdom

**B. Dratz**, Ecole Centrale de Lille, France

**J.E. Mottershead**, University of Liverpool, United Kingdom

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**N. Roy**, Top Modal, France

**S. Mary**, CNES - Centre Spatial de Toulouse, France

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**P.A. Tarazaga**, Virginia Polytechnic Institute and State University, United States of America

**Y. Halevi**, Technion – Israel Institute of Technology, Israel

**D.J. Inman**, Virginia Polytechnic Institute and State University, United States of America

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**J.C. Kirstein, J.L. van Niekerk**, Stellenbosch University, South Africa

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**G. Offner**, AVL List GmbH, Austria

**H.-H. Priebsch**, ACC Acoustic Competence Center G.m.B.H. / Graz Technical University, Austria

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**H. Riener, W. Witteveen, M. Fisher**, MAGNA Powertrain, Engineering Center Steyr GmbH & Co KG, Austria

A Geartrain Model for the Dynamic Analysis of a Motorbike Timing System

**A. Rivola**, University of Bologna, Italy

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G. Dimitriadis, G.A. Vio, University of Manchester, United Kingdom

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M. Magnevall, A. Josefsson, K. Ahlin, Blekinge Institute of Technology, Sweden

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T. Tjahjowidodo, F. Al-Bender, H. Van Brussel, Katholieke Universiteit Leuven, Belgium

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G. Dimitriadias, G.A. Vio, J.E. Cooper, J.R. Wright, University of Manchester, United Kingdom

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O. Yogev, I. Bucher, M. Rubin, Technion - Israel Institute of Technology, Israel

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D.G. da Silva, P.S. Varoto, University of Sao Paulo, Brazil
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R. Roustany, Université de Technologie de Compiègne, France  
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R. Zouari, Institut de Recherche en Informatique et Systèmes Aléatoires, France  
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K.A. Grimmelsman, A.E. Aktan, Drexel University, United States of America
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T. De Troyer, Erasmushogeschool Brussel, Belgium
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S. Vanlanduit, R. Pintelon, Vrije Universiteit Brussel, Belgium
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L. Cospite, Avio S.p.A. - Propulsione Aerospaziale, Italy
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