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Fez is a marvellous town in Morocco and it was its capital until 1925; it is now the capital of the Fès-Meknès administrative region. The city has two old medina quarters, and is included within the World Heritage Site list; it has one of the world's largest urban pedestrian zones. The University of Al Quaraouiyine, founded in 859, is the oldest continuously functioning university in the world.

Fez, handicraft capital, holds a genuine and original artistic know-how for ceramic, woodworking and copperware crafts.



Typical ryad interior decoration in Fès

Surveillance 9

9th International Conference

Acoustical and Vibratory Surveillance Methods and Diagnostic Techniques



INSA Euro Méditerranée in Fez,
Morocco

May 22-24, 2017

SFM

INSA

INSTITUT INTERNATIONAL
DES SCIENCES
APPLIQUÉES
EURO-MÉDITERRANÉE



TOPIC

This is the Ninth in the series of international conferences emphasizing acoustical and vibratory methods in surveillance and diagnostics organized by the French Society of Mechanics (SFM) and INSA Euro Méditerranée of Fès, in Morocco.

Monitoring and diagnosis are essential to the improved competitiveness of various industries, machinery 'downtime' is reduced, safe operation is increased, quality control in production is ensured on line, predictive maintenance decreases costs and standards are easily respected (noise, vibration, pollution, etc.).

A diagnostic system determines the internal state of a system and the need for operational actions. It is based upon information from sensors and a priori knowledge of the processes involved.

The methodology of monitoring and diagnostic takes advantages from significant developments in signal processing, information theory, physical models and inherent subjects, which are being put to practical use through advances in sensor technology and real time computation. The range of applications encompasses many areas of science, engineering, manufacturing and medicine.

There has been a major expansion in research and applications of monitoring and diagnosis in recent years, utilizing new processing techniques and sensors.

However, in spite of this, implementation of diagnostic systems is still limited in industry. Reliable systems require a multidisciplinary approach linking physical modeling with advanced signal processing and information theory concepts.

This conference is intended to be a forum for presentation and exchange of information from researchers and industrial people in various fields (acoustic, vibrations and modelling, reliability analysis, diagnostic, control, signal processing, sensors).

The conference is opened to the whole scientific and industrial community in the areas listed below:

- 1. Machines**
(Mechanical components, design,...)
- 2. Vibrations & Acoustics**
(Linear and non linear modelling and identification, non stationary models,...)
- 3. Numerical Modelling**
(Finite Elements Methods, models for diagnostics, model updating, cracks models,...)
- 4. Measurement and Testing Techniques**
(Sensors and instrumentation, smart sensors, data acquisition and transfer, emerging technologies, smart structures,...)
- 5. Signal Processing, Model Identification**
(Detection, estimation, time frequency techniques, higher order statistics, cyclostationarity, source separation,...)
- 6. Diagnosis Techniques**
(Structural Health Monitoring, Non-Destructive Testing,...)
- 7. Surveillance Techniques**
(Fuzzy, neural networks, genetic algorithms, innovation detection, data mining,...)
- 8. Predictive Maintenance, Condition Monitoring and Prognosis**
(Risk and reliability, statistics, probabilistic methods, Markov-chains,...)
- 9. Industrial Applications and Case Studies**
(Gears, rolling element bearings, electric machines, internal combustion engines, turbines, wind mills,...)

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- **Associate Chairs:** Jerome Antoni, INSA de Lyon, France & Luigi Garibaldi, Politecnico di Torino, Italy

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DEADLINES (UPDATED!)

- **1-page abstract:** October 15, 2016
- **Notification of acceptance:** December 15, 2016
- **Full-length paper:** March 2017
- **Early registration:** until January 31, 2017