The University Of Sheffield.

Automatic Control and Systems Engineering

The Department of Automatic Control & Systems Engineering is pleased to announce the following seminar:

Good measurements for good structural health monitoring

Professor Alfredo Cigada
Professor of Mechanical and Thermal Measurements,
Politecnico di Milan

Wednesday, 21st October 2015 at 14:00
LT02, The Diamond

Abstract

The seminar deals with the presentation of some real cases in which measurements have played an essential role for the final success of a Structural Health Monitoring network.
This is an occasion to go through a series of field experiences gathered working on the San Siro stadium, on the Duomo di Milano main spire and on many other important structures.
In the meanwhile it will be shown how the progress in modern instrumentation is not enough to get reliable results; the basic lessons learned from metrology are a needed step for a proper damage identification and to provide the proper input to numerical modelling.

Biography

Born on April 26th 1965, in Milano, Italy, Alfredo Cigada is professor of Mechanical and Thermal Measurements since 2002 at Politecnico di Milano and Università di Pavia (2003-2008). He has about 200 papers in the following topics: Fluid Structure interaction, Vehicle sub-structure interaction, Cable vibrations, Electro-mechanical interaction, Image processing, New Measurement Techniques, especially with new sensors (MEMS and fiber optics), Acoustics, Structural health monitoring, Safety and security.

He has been coordinator or principal investigator of several EU and national projects. He is responsible for the monitoring of the Meazza Stadium in Milan, of the Duomo di Milano for the restoration of the main spire, of the skyscraper Palazzo Lombardia, the headquarters of the regional government of Lombardia, then of the dynamic testing of several highway bridges.

He served in the board of directors of Politecnico di Milano from 2004 to 2010, taking care of research, intellectual property, new spin-off and start-up companies.