

Publications with peer review

1. Maldonado-Lopez, R.; Christen, R., *Position-Controlled Data Acquisition Embedded System for Magnetic NDE of Bridge Stay Cables*. *Sensors*, January 2011, **11**(1), 162-179.
2. Christen, R., Bergamini, A., Motavalli, M., *High precision measurement of surface cracks using an optical system*. *Measurement Science and Technology*, July 2009. **20**(7)
3. Christen, R., Bergamini, A., Motavalli, M., *Influence of steel wrapping on magneto-inductive testing of the main cables of suspension bridges*. *NDT&E International*, January 2009. **42**(1): p. 22-27
4. Bergamini, A., Christen, R., Motavalli, M., *Electrostatically tunable bending stiffness in a GFRP-CFRP composite beam*. *Smart Materials and Structures*, June 2007. **16**(3): p. 575-582
5. Christen, R., Bergamini, A., *Automatic flaw detection in NDE signals using a panel of neural networks*. *NDT&E International*, October 2006. **39**(7): p. 547-553
6. Bergamini, A., Christen, R., Motavalli, M., *Sandwich beam with electrostatically tuneable bending stiffness*. *Smart Materials and Structures*, 15 (2006): p. 678-686
7. Moser, K., Bergamini, A., Christen, R., Czaderski, C., *Feasibility of concrete prestressed by shape memory alloy short fibers*. *Materials and Structures*, June 2005. Vol.38-No.279: p. 593-600
8. Christen, R., Bergamini, A., Wakili, K.G., *Full scale, low temperature mechanical testing of pre-stressing systems*. *Experimental Mechanics*, February 2005. **45**(1): p. 96-100
9. Christen, R., Bergamini, A., Motavalli M., *Three-Dimensional Localization of Defects in Stay Cables Using Magnetic Flux Leakage Methods*. *Journal of Non destructive Evaluation*, September 2004. **22**(3): p. 93-101

Publications without peer review / Conference Proceedings

10. Christen, R., Bergamini, A., Novakovic, A., Motavalli, M. *Filtering of NDT signals obtained from wrapped steel cables*. in *SPIE Conference 2007, Progress in Nondestructive Evaluation*. March 2007. San Diego CA.
11. Bergamini, A., Christen, R., Motavalli, M. *A numerical model for the prediction of the stiffness of a homogeneous electrostatically tunable multilayer beam*. in *SPIE Conference 2007, Damping and Isolation*. March 2007. San Diego CA.
12. Bergamini, A., Christen, R., Motavalli, M. *Electrostatic Tuning of the Bending Stiffness of a large scale GFRP-CFRP Beam*. in *SPIE Conference 2006, Damping and Isolation*. February 2006. San Diego CA.
13. Bergamini, A., Christen, R., Motavalli, M. *Electrostatic tuning of the bending stiffness of simple, slender multi-layer composite structures*. in *SPIE Conference 2005, Smart Structures and Materials*. February 2005. San Diego CA.
14. Bergamini, A., Christen, R. *Non-destructive inspection of steel cables with large diameters for cable-stayed bridges*. May 2004. ASTRA Report No 574
15. Bergamini, A., Christen, R., Motavalli, M. *A simple approach to the automatic recognition of flaws in large diameter steel cables*. in *International Symposium NDT-CE 2003*. September 2003. Berlin
16. Bergamini, A., Christen, R. *Damage Detection in Cables*. in *SAMCO Summer Academy*. June 2003. Robinson College Cambridge University U.K.
17. Bergamini, A., Christen, R., Motavalli, M. *A Simple Approach to the Localization of Flaws in Large Diameter Steel Cables*. in *SPIE Conference 2003, Smart Nondestructive Evaluation and Health Monitoring of Structural and Biological Systems II*. February 2003. San Diego CA.