Call for abstracts

10th International Conference on Structural Health Monitoring of Intelligent Infrastructure (advanced research and real-world applications)

#fiberoptics #sensing #DFOS #SHM #shmii #fibristerre

The next (10th) SHMII conference will be held from 30 June to 2 July 2021 in Porto, Portugal. The call for abstracts is open until **30 June 2020**. Please visit the internet site https://web.fe.up.pt/~shmii10/.

The themes of this conference touch many different aspects of SHM. Professionals from the industry and from research institutions, dealing with fibre optic sensing and structural health monitoring of extended infrastructures, who wish to contribute to the scientific program of SHMII-10 should consider one of the mini-symposia that will run in parallel sessions during the conference. Specifically we draw your attention to the following sessions:

MS10 - Real world applications of fibre optic sensing for infrastructure monitoring

which is being organised by Dr Nicky de Battista (University of Cambridge), Prof Branko Glisic (Princeton University) and Dr Massimo Facchini (fibrisTerre)

The objective of this mini-symposium is to provide a forum for discussing case studies on the use of fibre optic sensing in real world applications of infrastructure monitoring. The submissions to this mini-symposium can include both academic research and commercial applications, and all types of fibre optic sensing techniques are welcome (discrete and distributed, short-gauge and long-gauge, based on interferometry, fibre-Brag grating, scattering, etc.). However, the emphasis should be on the application of the fibre optic sensing techniques in real structures, and the outcomes (results, lessons learned, recommendations) of using these techniques in infrastructure monitoring.

MS19 - SHM of extended geotechnical structures

which is being organised by Prof Werner Lienhart (Technical University of Graz) and Dr Nils Nöther (fibrisTerre)

This mini-symposium shall give an overview of tools and methods for structural health monitoring of large extended geotechnical structures, with a strong focus on long distance monitoring techniques. These include distributed and quasi-distributed fibre-optic sensing technologies as well as remote sensing methods. Presentations and discussions shall cover the different sensing technologies (FBG, distributed Rayleigh, Raman and Brillouin sensing, laser scanning, interferometric radar etc.), as well as installation considerations (sensor cable design and characterisation, concrete embedding, concrete surface application, soil embedding, etc.). Focus shall be on contributions covering industry applications and real-life case studies, providing hands-on experience from use-cases such as settlement, deformation and crack monitoring along slopes, tunnels, dams, embankments, retaining walls. pipelines or other extended geotechnical structures.

Conference flyer

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