



14th International Conference on Fracture (ICF14) Rhodes, Greece, June 18-23, 2017

Mini-symposium

"Signal processing and analysis for fracture monitoring"

Organized by Prof. Giuseppe Lacidogna

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You are cordially invited to submit an abstract to the Mini-symposium "*Signal processing and analysis for fracture monitoring*", which is organised within the framework of the ICF14 to be held in Rhodes, Greece on June 18-23, 2017 (see <http://www.icf14.org/>).

The idea of the Mini-symposium is based on the fact that fracture is to consider as a nonlinear and, in some cases, an unstable global structural response.

Crack initiation is accompanied by the emission of pressure waves, triggered by local mechanical instabilities, that transform into additional forms of energy. This particular phenomena can be predicted by numerical simulation, or experimentally detected by monitoring techniques based on the emission of waves of different nature.

Signal processing and analysis includes the fundamental theories, applications, and implementations of transferring information contained in many different physical and engineering parameters usually classified as *signals*.

Monitoring of these signals, by means of piezoelectric sensors, antennas, optical methods, etc., enables an accurate interpretation of damage in the field of Civil Engineering both at laboratory and full scale structures, and in the Seismic Analysis at the tectonic scale.

To provide a forum to discuss recent advances in the above subjects, technical contributions are sought.

If you would like to participate, please send me an email (giuseppe.lacidogna@polito.it) with a tentative title, within September 30, 2016.

In addition, a two-page abstract, must be submitted through the ICF-14 website (<http://www.icf14.org/>) by October 31, 2016, indicating this specific Mini-symposium.