



Special Session Chair(s):

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Title: Image Processing for Natural Risks (IPNR)

Aims & topics:

Natural risks are unpredictable, dangerous and may be widespread. It is often not straightforward, cost-effective, or accurate to use metrological sensors in the ground, for example, to study and track their global evolution. The use of image data is a powerful way to do this: this: imaging technology enables the phenomena to be observed continuously, safely, and economically without the use of expensive equipment for a single purpose. High-resolution, multispectral, and remote/proximal sensing can be achieved with standard imaging technologies. Once the image/video data is acquired, research into image/video processing is subsequently necessary to obtain useful and timely information about the nature of the risk arising from the natural phenomena drawing on a range of techniques in a well-established and productive field of research.

Topics of interest:

The use of satellite, multispectral radar, and stereo images combined with image/video processing for the study of natural risks which may include:

- Tsunami
- Flooding
- Fire
- Storm
- Volcanic eruption
- Ocean and sea pollution
- Desertification
- Deforestation
- Glacier elevation changes
- Avalanche
- Monitoring of the ozone layer

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