

Remote sensing and photogrammetry applied for Natural and Cultural heritage

Conference of Prof. Armin Gruen from ETH-Zurich

Tuesday March 7th at 16:00

UNESCO/Fontenoy Room – VII

Prof. Armin Gruen from the Institute of Geodesy and Photogrammetry at the Federal Polytechnical School of Zurich (ETH-Zurich) will be visiting the UNESCO remote sensing activities. He will present: ***“Documentation Visualization and Modeling of Natural and Cultural heritage”***.

The Institute of Geodesy and Photogrammetry at ETH-Zurich, covers the main themes:

- Advancement of science
- Sustainable development of environment
- Optimization of design and manufacturing processes
- Better understanding of cultural heritage
- Improvement of health
- Support and advancement of profession
- Transfer and exchange of knowledge and technology
- International cooperation

The presentation of Tuesday March 7th will provide a series of astonishing examples to illustrate the wide range of applications and enormous potential that remote sensing and photogrammetry has to assist in the conservation, understanding and documentation of Natural (Biosphere reserves) and/or Cultural sites. ETH-Zurich projects include:

- Generate from satellite images 3-D digital terrain models
- [Photogrammetric Reconstruction of the Geoglyphs of Nasca and Palpa](#)
- [High resolution 3D Modeling of Mount Everest](#)
- 3D reconstruction and visualization of a Buddhistic Tower from Bayon Temple in Angkor, Cambodia
- [Determination of forest lines out of remote sensing data](#)
- [Photogrammetric reconstruction of adobe architecture in Tucume, Peru](#)

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