Prof. Patrick Hostert

Faculty of Mathematics and Natural Sciences
Department of Geography
Geomatics



Expertise
Prof. Hostert's explores cutting-edge satellite data analysis. His main focus lies on questions regarding the global change, particularly large-scale mapping in agrarian- and forestry systems and near-nature ecological systems worldwide. He analyses the change of the earth's surface through different methods, for example with machine learning, big data, time series analyses, hyperspectral and multisensor approaches, as well as multiscale analyses. Regional expertise of the team covers Germany, the mediterranean areas and South America, as well as Central Asia.

Scientific Services
- satellite data analysis
- AI in remote sensing

Testimonials
- large-scale remote sensing analysis with big data approaches (particularly Sentinel-2, Landsat), funded through projects of the BMWi, BMBF, BMEL, as well as the EU
- scientific monitoring of satellite missions (Landsat Science Team, EnMAP ScientificAdvisory Group)
- satellite based mapping and land use analysis for NGOs, authorities and global tech- and logistics companies

Topics / Trends
Machine Learning
Big Data & Data Management
Climate / Climate Change
Land Use
Sustainability & Ressource Efficiency

Scientific Institution
IRI THESys

Industries
Education
Aerospace

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