RESEARCH GROUP^{ww.list.lu/index.php?id=845&L=2&tx_listreference_pi1%5BresearchGroup%5D=23&cHash=fd74} 90d64d34f1d63a047e23bb74bef3

Remote Sensing and Natural Resources Modelling



At the Renote sensing and adults resources modeling (BMOTE) group, we are capitalising on a biend of remote sensing, and environmental sciences such as hydrology, clinicatogy, plast physiology, etc. to improve our capacity to monitor variations of Earth's bloic and adolts: resources at unconcented termoral and accumption control and advice resources for public and private stateholders. Eventually, we rely on our competences in remote sensing, and environmental sciences such as hydrology, clinicatogy, plast physiology, etc. to improve our capacity to monitor variations of Earth's bloic and adolts: resources at unconcentration control and advice resources for public and private stateholders. Eventually, we rely and unconcentrative sensing and environmental sciences such as hydrology, clinicatogy, plast physiology, etc. to improve our capacity to monitor variations of Earth's bloic and adolts: resources at unconcentrative sensing and advice resources for public and plaster.
Horeover, we sim to hispitate renders and second adult and second adult adult and the render to provide evidence based docion apport in near real time is a variety of thermatic domains (i.e. disaster risk reduction, procision agriculture, Witculture and Toreaty, presentation and management of satural resources, maritime surveitance). This body of wesh traping connects with other lines of research data based and control adultities and terretaria communication services in order to provide evidence-based docicion, apport in near real time is a variety of thermatic domains (i.e. disaster risk reduction, procession agriculture, Witculture and Toreaty, presentation and management of satural resources, maritime surveitance). This body of wesh traping connects with other lines of research data based advantagement of satural resources, maritime surveitance).
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Heat Expert Liber T LEUM Internet starking and internet involution of kay environmental valuables, dosign and development of robust and resilient communication infrastructure in the biolowing thematic areas:
 Precision agriculture and viticulture, forestry & vegetation agroecosystem protection and management under global change
Lad sufficie processe 5 expetition water cycles biophre intractions at millips spatio-temporar interactions
Kuritime surveillance: protect and manage coastal environments, maritime safety & security
research challenges
To research within any wind another final and applied questions related to:
How will global change impact our natural insources?
* How to improve management tools and early warring systems to enable a more effective response?
This includes research on:
- Measurement techniques and data analytics: Synoppidic use of visible, near- and shortwave-intraned (VSMR), Idenmal Infrared (TR) and microwave measurements for monitoring Earth's natural resources
- Data scientificatio: Development of the Surgeous scientification free directive integration of multi-scores markets scientification and science modes - Proceeding additional addit
We rely on our long-standing-appendix in memote sensing, satellite and termetratic communication services and environmental modelling to carry our research in the thematic areas of:
PRECISION AGRICULTURE & VATIOUTURE, DRESTRY AND VERFATION While leverys to an advasse information frequencies able structure advances and forests. The effects of polar charge call for new decision and management support tool (ii o.g. precision agriculture and veficulture).
LAND SURFACE PROCESSES AND VEGETATION WATER CYCLE
We rely on scientific and technical ED and R5-based insolidege for guining a better understanding of Land Surface Processes. For investigating eco-hydrotogical extremes in a non-stationary content, we focus on biosphere-interactions at multiple spatia-temporal scates.
NATURAL DISASTES
MARITIME TRANSPORTATION
We cancel scientific and bunched to be Aff Salase Introducing to better understand, particle and manage casadal environments, as well as vestari and becaming maritime safety and security. APPLICATION AREAS
Procision acticulars, forestry and viscollarse
Natural resources (i.e. water and land along with vegetation)
Diadartini (rik Madatan
Main assets
Here a social soci social social soci
Evaporation transplation and water chees from thermal remote sensing data (STC model)
- Dural 121 and 15 mays through altorn themail infrared sense pathem - Land and a loss, construct of creat organized and construct organized an
Water bodies and floodwater variations from SAR intensity data
• Waar daph - Keak baard from multi-temporal monte sensing data
Urban flood mapping from SAR InSAR data
• Urban an angolog using mUlt-temporal S48 data • • • • • • • • • • • • • • • • • •
2.Cast diseased how 548 major
Down/ mildew symstems for vine
 Software enabling the effective assimilation of EO data into numerical prediction models
equipment
Complementarily to the available spaceborne sensors and with the edjective to monitor terrestrial subsurface and surface water bodies, the hydro-ecological processes and their elabels
 In all sensors: that spectrometers values and the Field Set and Set Side and sensors for crop data parameters LCOR 220 and Minola SHA, spand Seast and and set and sensors for crop data parameters LCOR 220 and Minola SHA,
- guardiante numericante in prime accuration da la marcina da la construcción da la construcción da la const La del para da la construcción da
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adwaÃ⁻sEO, European Space Agency (ESA), Luxembourg Space Agency (LSA), Vienna University of Technology, Wageningen University, Cima Research Foundation, Fadeout Software, Luxsense Geodata, Luxspace, University of Trier, RSS-Hydro, Frontier Connect

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