

SAR-EDU Education initiative for applied radar remote sensing

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Radar remote sensing has a long and prosper tradition in the Earth observation sciences. Past, present and future satellite missions provide vast amounts of data for the analysis of the condition and development of the Earth surface as well as natural and anthropogenic habitats. The application of radar data is rife in nearly all fields of geoscientific research, decision making and the creation of commercial geographic products.

The project SAR-EDU is a joint education initiative of the Friedrich-Schiller-University of Jena (FSU), the German Aerospace Center (DLR) and numerous partners in radar-related scientific institutions. In a previous project phase two main cornerstones for education in the field of applied radar remote sensing were established. Since 2013 the FSU is hosting a yearly summer school on applied radar remote sensing. Furthermore DLR and FSU published the SAR-EDU learning portal in late 2014 (<https://saredu.dlr.de>). This web portal is designed to provide access to a vast range of teaching material regarding the basics, methods and applications for radar remote sensing.

In the recent project phase it is planned to equip the existing web portal with further interactive functionality in order to create a vital online community for radar remote sensing education. The teaching material is available under a creative commons license (CC BY-SA 4.0) allowing for the usage, adaption and distribution of the material.

Future visions for this education platform include the creation of Massive Open Online Courses and innovative ways to provide, share and communicate application oriented SAR knowledge.