11th IAPR International Workshop on Pattern Recognition in Remote Sensing 2020/2021 (PRRS)

The 11th IAPR International Workshop on Pattern Recognition in Remote Sensing was held in online format on January 10, 2021. The workshop was held in conjunction with the International Conference on Pattern Recognition (ICPR 2020) (https://www.icpr2020.it/) and was sponsored by the International Association for Pattern Recognition (IAPR) and the International Society for Photogrammetry and Remote Sensing (ISPRS). The organizing team consisted of Ribana Roscher (University of Bonn, WG II/6), Gabriele Cavallaro (FZ Jülich), Jie Shan (Purdue University, ICWG II/III), Eckart Michaelsen (Fraunhofer-IOSB), and. Uwe Stilla (Technical University of Munich, ICWG II/III).

The workshop serves as an event bringing together researchers from both pattern recognition and remote sensing, with emphasis on the application of pattern recognition methods to remotely sensed data. The steady progress in the development of new remote sensing devices and remote sensing technology has led to ever increasing data and new challenges. Thus, need arises to apply the latest methods of machine learning and pattern recognition for automated analysis of this kind of data. This workshop provides a forum for spreading and exchanging the latest experiences of international researchers.

The program of the PRRS workshop began with a keynote given live by Bertrand Le Saux (ESA) entitled "Beyond Labels: Weakly-supervised, Continual and Semi-supervised Learning for Earth Observation." The rest of the afternoon was filled with 7 presentations that covered current research in pattern recognition and remote sensing. For example, current approaches such as crowdsourcing, self-supervised learning, or multi-modal learning with social media inputs were presented. The program with presentation slides and videos can be found at http://iapr-tc7.ipb.uni-bonn.de/prrs2020/.

The next workshop is planned for August 2022 in Montreal in conjunction with ICPR 2022. We invite everyone who is interested to participate and to submit contributions. Following the success of the workshop, we also invite submissions to the JSTARS special issue on "Advances in Pattern Recognition in Remote Sensing". The special issue will provide an updated snapshot of recent advances in the use of pattern recognition techniques to address the challenges in new-generation remote sensing data. It will consider revised and extended papers initially presented at the workshop, as well as other submissions in response to this open call for papers.