



UniScan technology for innovative laboratory at a university for acquisition data from space in real-time

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Remote Sensing Centers allowing real-time imagery acquisition from Earth observing satellites within the structure of Universities provides proper environment for innovative education. It delivers the efficient training for scientific and academic and teaching personnel, secure the role of the young professionals in science, education and hi-tech, and maintain the continuity of generations in science and education. Article is based on experience for creation such centers in more than 20 higher education institutions in Russia, Kazakhstan, and Spain on the base of UniScan ground station by R&D Center ScanEx. These stations serve as the basis for Earth monitoring from space providing the training and advanced training to produce the specialists having the state-of-the-art knowledge in Earth Remote Sensing and GIS, as well as the land-use monitoring and geo-data service for the economic operators in such diverse areas as the nature resource management, agriculture, land property management, disasters monitoring, etc. Currently our proposal of UniScan for universities all over the world allows to receive low resolution free of charge MODIS data from Terra and Aqua satellites, VIIRS from the NPP mission, and also high resolution optical images from EROS A and radar images from Radarsat-1 satellites, including the telemetry for the first year of operation, within the footprint of up to 2,500 kilometers in radius. Creation remote sensing centers at universities will lead to a new quality level for education and scientific studies and will enable to make education system in such innovation institutions open to modern research work and economy.