

Remote Sensing and Imaging Spectroscopy R&D at the University of Lethbridge

A Cumulative Five-Year Bibliography (2007-2011)





The purpose of the Alberta Terrestrial Imaging Centre (ATIC) is to advance scientific knowledge in remote sensing and imaging spectroscopy and apply this knowledge to the monitoring of natural resources and the environment in the context of global sustainability. In particular, the Centre integrates strategic research and development (R&D) in these areas at the University of Lethbridge. The Centre's R&D supports new applications utilizing cutting-edge remote sensing technologies developed at the Centre. The terrestrial focus encompasses R&D on the remote sensing of surface and atmospheric properties. While the primary emphasis is on imaging, the Centre's R&D involves a wide variety of non-imaging measurements and methodologies, including field spectroradiometry, atmospheric spectroscopy, and scene physics and analysis. Due to its increased knowledge and expertise in remote sensing, the Centre has the capacity to collaborate consultatively with all levels of governments and industry, especially in the area of imaging spectroscopy, which is neglected at the Canadian national level. This enlarged capacity is also used to enhance training and teaching programs at the undergraduate and graduate levels to develop highly-qualified personnel (HQP). Within this framework, the Centre further enhances national and international collaboration to augment its research, training and teaching capabilities.

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