

The Daniel D. McCracken Computational Sciences Seminar Series

Wednesday, November 16
Hebeler 106 – 10:00 am - noon

Speaker

Peter Doucette, PhD

Research Scientist, Remote Sensing and Spatial Analytics
Pacific Northwest National Laboratory

Getting a Handle on Pixels All Around Us

Imaging sensors of all types are fast becoming ubiquitous in today's society. The sheer volume of imagery collected by ground, air, and space-borne sensors has overwhelmed the ability of human analysts to conduct analyses in a timely manner. This predicament has created a critical need for reliable computer vision algorithms to assist human analysts in exploiting this information in a timely manner. Conventional image processing methods are reaching their limits of effectiveness, and new revolutionary ideas are being sought. Researchers in the Remote Sensing and Spatial Analytics team at PNNL are developing innovative solutions for automated feature extraction and image analysis. This presentation demonstrates some of the methods being developed at PNNL, and future directions in this research.