

# **GENERATION OF ORTHO-IMAGES FROM COMMERCIAL HIGH- RESOLUTION SATELLITE IMAGERY**

Dr. Rongxing (Ron) Li

*Department of Civil and Environment Engineering and Geodetic Science*

*The Ohio State University, Columbus, OH 43210, USA*

*Tel. (614) 292-6946, Fax. (614) 292-2957, Email: li.282@osu.edu*

This presentation will introduce the technology of the new generation of 1-meter resolution satellite imagery and its applications in ortho-image generation. The mapping potential of the imagery will be analyzed. Processing techniques of the satellite imagery and aerial photos will be compared. A discussion of photogrammetric processing of the imagery including geometric models, stereo model formation, and applications in national mapping products such as digital elevation models, digital orthophoto quadrants, digital line graphs, and digital shore lines will be given. A future research plan for assessing the potential of the satellite imagery for mapping purposes will be introduced.