

DATA-08 Image processing techniques

Aim:	To learn about selected image processing techniques for observation of flow velocity, probability of incipient sediment movements, and velocity profile
Contents:	<ul style="list-style-type: none">• Overview of the image acquisition system including light source, CCD camera and acquisition card• Data structure of digital image files• Image coordinates to physical coordinates transformation formula• Cross correlation algorithm• Particle image velocimetry (PIV), particle tracking velocimetry (PTV), accuracy analysis of PIV and PTV• Probable incipient sediment movements and free surface elevation measurement techniques
Who should attend:	Planners, engineers and technical specialists from the public and private sector seeking an introduction to the subject
Courseware:	Selected slides and background documents as handouts and/or electronic files
Certification:	Attendance certificate (subject to 80 percent attendance)
Duration:	2 lessons (2 hours each) plus some homework
Costs:	\$300 per participant (inclusive of GST) <i>A discount of 20 percent applies to 3 or more participants from the same organization in the same course</i>
Other expenses:	Text book (optional)
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