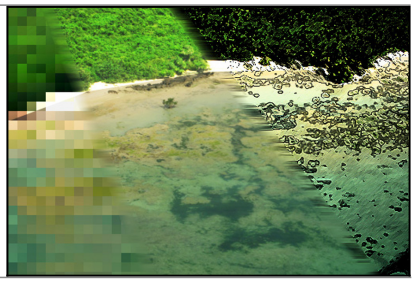
INSTITUT d'OPTIQUE GRADUATE SCHOOL | Continuing Education
Formation Continue

SC10 | Acquisition, perception and image processing



LEVEL: BASIC
Audience: Senior technician, engineer, project manager
Prerequisites: Basic knowledge in physics and mathematics (bachelor)
Pedagogical manager(s): Guy Le Besnerais - Ingénieur expert Onera, Matthieu Boffety - Enseignant-chercheur à l'Institut d'Optique
Language of the training: French
Maximum capacity: 12
Price: 1820€ HT - **Duration:** 4 days - 28 h

Objectives

- Acquire quickly and simply the basics of digital imaging
- Learn about image processing
- Understand and use vocabulary specific to image processing
- Allow a better dialogue with experts in the field

Next sessions

- 21 september 2020 au 24 september 2020 - Palaiseau

Addressed topics

Acquisition, visualization and images perception
Digital imaging modes and their applications
Image processing: basic concepts and vocabulary

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The program

Introduction
- The image and its applications

The image chain
- Acquisition, transmission, visualization, human perception

Model of image formation by an optical sensor
Basic operations of image processing
Vocabulary of computer vision
Introduction to unconventional imaging modes
- Multispectral, polarimetry, active imaging (lidar, radar)

Methodology and assessment

Lectures
Demonstrations and exercises of application on image processing software