

Imagery Workshop 2018

May 29-31, Salon de l'Océan, Centre Ifremer de Brest

Program

Tuesday 29

<i>Time</i>	<i>Speaker</i>	<i>Title</i>
13:00	Welcome coffee	
Workshop Introduction		
13:30	Patrick Farcy	Strategic vision of the Ifremer Scientific Board about imagery
13:40	Marjolaine Matabos, Karine Olu	Imagery working group: background and current status
Session 1 Acquisition		
13:50	Jean-Yves Martin (SONY)	The future of the video pictures quality with SONY: Sony solutions for Production, Assets Management, Archiving; Moving from HD/SDR/50i SDR to 4K/HDR/HFR
14:50	Catherine Borremans	An overview of Ifremer's imagery acquisition systems
15:10	Aurélien Arnaubec	Optical imaging systems design for underwater vehicles
15:30	Coffee break	
15:50	Alan Tassin	High-speed imaging for unstationary free-surface flows
16:10	Marion Jaud (LGO, Univ. Bretagne)	Direct Georeferencing of a Pushbroom, Lightweight Hyperspectral System for Mini-UAV Applications
16:30	All	Q&A - Discussions
17:30	End of the day	

Wednesday 30

<i>Time</i>	<i>Speaker</i>	<i>Title</i>
9:00	Coordination committee	Introduction
Session 2 Manual & Automatic Image Processing		
9:10	Tim Nattkemper (Bielefeld University)	Marine Image Informatics - How to process image collections for Marine Data Science
9:50	Ronan Fablet (IMT-A)	Learning-based and data-driven imaging
10:10	Cyril Chailloux (ALTRAN)	Coastal habitat mapping from multispectral image and neural networks

10:30	Coffee break	
10:50	Jean-Claude Duchêne	AviNotes: a tool for counting and locating in underwater videos
11:30	Karine Olu	Habitat and megafauna distribution mapping from ROV imagery. From manual to automatic processing?
11:40	Mélissa Hanafi-Portier	BIIGLE: A collaborative approach with taxonomists for an integrative study on deep sea diversity
11:50	Marjolaine Matabos	Temporal dynamics of hydrothermal vent species: preliminary results on citizen science data
12:00	Bastien Taormina	Optimisation of an imagery analysis method to characterise the epibenthic communities of submarine power cables
12:10	All	Q&A - Discussions
12:40	Lunch in Salon de la Rade	
13:50	Timm Schoening (GEOMAR)	Multi-task automated benthic image analysis
14:30	Lénaïck Menot	ADELIE: Underwater vehicle data post processing software
14:50	Aurélien Arnaubec	Underwater optical mapping for scientific applications
15:10	Coffee break	
15:30	Alicia Romero (EPOC, Univ. Bordeaux)	When shall we go for an automatic image analysis system? Examples from oceanographic case studies
16:10	Florent Colas	Automatic imaging and classification of Fish eggs and Zooplankton using machine learning algorithms
16:30	All	Q&A - Discussions
17:30	End of the day	

Thursday 31

<i>Time</i>	<i>Speaker</i>	<i>Title</i>
9:00	Coordination committee	Introduction
Session 3	3D, Virtual Reality, Augmented Reality	
9:10	Sébastien Muzet (PIX-FACTORY)	Alternative Reality : Virtual, Augmented, Mixed...
10:10	All	Demo - Q&A
10:40	Coffee break/Virtual Reality Demo	
11:00	All	Imagery prospective structure in Ifremer, Discussions & Conclusions
12:30	End of the workshop	