

2nd International Workshop UNDERWATER 3D RECORDING & MODELLING: A tool for modern applications and CH recording

Preliminary Programme (vers. 04/03/2019)

Time	THURSDAY 2/5	
9:00-9:10	Opening	
09:10-10:00	Keynote Presentation: OMNIDIRECTIONAL UNDERWATER COMPUTER VISION RESEARCH AND APPLICATIONS AT THE UNIVERSITY OF GIRONA	
10:00-10:30	Coffee break	
	BATHYMETRY SESSION	
10:30-12:30	▪ IMPROVEMENTS IN LIDAR BATHYMETRY DATA ANALYSIS	Maas et al.
	▪ EVALUATING THE USE OF MBES MULTISPECTRAL ACOUSTIC IMAGES TO MONITOR AN ARTIFICIAL REEF	Tassetti et al.
	▪ SHALLOW WATER BATHYMETRY MAPPING FROM UAV IMAGERY BASED ON MACHINE LEARNING	Agrafiotis et al.
	▪ 3D UNDERWATER MINE MODELLING IN THE ¡VAMOS! PROJECT	Bleier et al.
	▪ BATHYMETRIC SURVEYING IN MICHIGAN LAKE: 3D MODELING AND SONAR EQUIPMENTS COMPARING	Shults et al.
12:30-13:05	POSTER PITCH PRESENTATIONS	
13:05-15:00	Lunch break	
	POSTER SESSION	
	▪ UNDERWATER PHOTOGRAMMETRIC DIGITAL SURFACE MODEL (DSM) OF THE SUBMERGED SITE OF THE ANCIENT LIGHTHOUSE NEAR QAITBAY FORT IN ALEXANDRIA, EGYPT	Abd Elaziz et al.
	▪ PHOTOGRAMMETRIC TECHNIQUES FOR THE RECONSTRUCTION OF UNDERWATER 3D MODELS OF SEABED AND ARTIFACTS	Barrile et al.
	▪ THE SUBMERGED HERITAGE: A VIRTUAL JOURNEY IN OUR SEABED	Barrile et al.
	▪ 3D ON 3D WRECKS UNDER WATER IN THE BALTIC- PROS AND CONS	Hansson et al.
	▪ CAN AN INEXPENSIVE PHONE APP COMPARE TO OTHER METHODS WHEN IT COMES TO 3D DIGITIZATION OF SHIP MODELS	Lewis et al.
	▪ 3D MODELING AND SEMI-AUTOMATIC FAN SURFACE MEASUREMENTS TO ASSESS POPULATION STRUCTURE OF GORGONIAN FOREST IN LE DANOIS BANK, CANTABRIAN SEA	Prado et al.
	▪ 3D MODELING OF RIO MIERA WRECK SHIP IN THE CANTABRIAN SEA MERGING OPTICAL AND MULTIBEAM HIGH RESOLUTION POINT CLOUDS	Prado et al.
	▪ THE DIVING TRAILS MODELLING AT MV BOELONGAN NEDERLAND SHIPWRECK AS AN UNDERWATER ARCHAEOLOGICAL REMAINS PRESERVATION EFFORT	Prasetya et al.
	▪ HOW TO USE PHOTOGRAMMETRY FOR A ROMAN SHIPWRECK ? METHODOLOGICAL FEEDBACK FROM A RECENT EXCAVATION IN CAESAREA, ISRAEL	Verly et al.
	▪ THE UNDERWATER ARCHAEOLOGY PROJECT ON MIDAO ISLANDS, SHANDONG PROVINCE, CHINA	Yu et al.
15:00-15:20	Sponsors presentations	
15:20-16:05	Coffee break	
16:05-18:00	VR and AR SESSION	
	▪ THE ENHANCEMENT OF MARITIME AND UNDERWATER CULTURAL HERITAGE ASSETS USING AUGMENTED REALITY (AR)	Malliri et al.
	▪ THE DIGITAL RESTITUTION OF LOT 3317: USING UW PHOTOGRAMMETRY TO GENERATE HERITAGE VALUE IN VR EXPERIENCES	Tousant et al.
	▪ UNDERSTANDING UNDERWATER PHOTOGRAMMETRY FOR MARITIME ARCHAEOLOGY THROUGH IMMERSIVE VIRTUAL REALITY	Dolezal et al.
	▪ VIRTUAL TOUR IN THE SUNKEN "VILLA CON INGRESSO A PROTIRO" WITHIN THE UNDERWATER ARCHAEOLOGICAL PARK OF BAIAE	Bruno et al.
	▪ THE PROGRESS OF DIGITAL TECHNIQUE IN UNDERWATER SITES FOR SURVEY AND VIRTUAL REALITY	Costa.
20:30	Social Dinner	
Time	Friday 3/5	
9:00-9:40	Keynote Presentation: EXPLORING UNDERWATER SITES THROUGH VIRTUAL AND AUGMENTED REALITY	
	UW IMAGE PROCESSING	
09:40-10:25	▪ ITERATIVE REFINEMENT FOR UNDERWATER 3D RECONSTRUCTION: APPLICATION TO DISPOSED UNDERWATER MUNITIONS IN THE BALTIC SEA	Song et al.
	▪ IMAGE QUALITY IMPROVEMENTS IN LOW-COST UNDERWATER PHOTOGRAMMETRY	Neyer et al.
10:25-11:10	Coffee break	
	BIOLOGY SESSION	
11:10-13:05	▪ DEVELOPING NEW TECHNIQUES TO CHARACTERIZE THE COMPOSITION AND THREE-DIMENSIONAL STRUCTURAL COMPLEXITY OF CORAL REEF HABITATS	Burns et al.
	▪ SEMANTIC SEGMENTATION OF BENTHIC COMMUNITIES FROM ORTHO-MOSAIC MAPS	Pavoni et al.
	▪ COMPARISON OF DIVER-OPERATED UNDERWATER PHOTOGRAMMETRIC SYSTEMS FOR CORAL REEF MONITORING	Nocerino et al.
	METROLOGY SESSION	

	<ul style="list-style-type: none"> ▪ ON SCALE DEFINITION WITHIN CALIBRATION OF MULTI-CAMERA SYSTEMS IN MULTIMEDIA PHOTOGRAMMETRY 	Kahmen et al.
	<ul style="list-style-type: none"> ▪ EVALUATION OF VISION BASED LOCALIZATION AND MAPPING TECHNIQUES IN AN UNDERWATER METROLOGY SCENARIO 	Menna et al.
13:05-14:35	Lunch break	
	UW ARCHAEOLOGICAL 3D MAPPING	
	<ul style="list-style-type: none"> ▪ ESTABLISHING AND MEASURING GROUND CONTROL NETWORKS FOR UNDERWATER PHOTOGRAMMETRIC APPLICATIONS IN ARCHAEOLOGICAL EXCAVATIONS 	Skarlatos et al.
14:35-16:05	<ul style="list-style-type: none"> ▪ ONTOLOGY-BASED WEB-TOOL FOR RETRIEVING PHOTOGRAMMETRIC CULTURAL HERITAGE MODELS 	BenElefi et al.
	<ul style="list-style-type: none"> ▪ DOCUMENTATION AND MONITORING OF UNDERWATER ARCHAEOLOGICAL SITES USING 3D IMAGING TECHNIQUES: THE CASE STUDY OF THE "NYMPHAEUM OF PUNTA EPITAFFIO" (BAIAE, NAPLES) 	Bruno et al.
	<ul style="list-style-type: none"> ▪ CHALLENGES OF 3D MODELLING AND DOCUMENTING THE ARCHAEOLOGICAL EXCAVATION OF THE LATE BRONZE AGE SHIPWRECK OF MODI 	Vlachaki et al.
16:05-17:05	Closing	