

Wednesday, September 10 AULA 1 “ANTONIO RUBERTI”			
15:00	Participant Registration		
16:00	Institutional Welcome and Presentation of the GPRITALIA Association		
16:30	Session Dedicated to Partners		
18:00	Guitar Concert Paolo Burghignoli		
19:00	Welcome Party		
Thursday, September 11 AULA 1 “ANTONIO RUBERTI”		Thursday, September 11 AULA 5	
<i>Session 1</i> <i>GPR applications for Cultural Heritage studies</i> <i>Chairs: Laura Cerri, Salvatore Piro, Luca Piroddi</i>		<i>Session 2</i> <i>Inverse Scattering</i> <i>Chairs: Adriana Brancaccio, Alessandro Fedeli, Raffaele Solimene</i>	
9:00	GPR INVESTIGATION OF THE WALL SUPPORT OF THE GIOTTO MURAL PAINTING IN THE BARDI CHAPEL, SANTA CROCE BASILICA, FIRENZE (ITALY). Alessia Francesca NAPOLI , Emanuele MARCHETTI, Massimo COLI, Davide MORANDI, Paolo PAPESCHI, Maria Rosa LANFRANCHI, Renata PINTUS, Eleonora MAZZOCCHI	9:00	SUBSURFACE TARGET LOCALIZATION VIA MUSIC AND $\omega - k$ DATA REPRESENTATION Angela DELL’AVERSANO, Adriana BRANCACCIO, Rosa SCAPATICCI, Raffaele SOLIMENE
9:20	COMBINED MULTICHANNEL GPR INVESTIGATIONS AND OTHER GEOPHYSICAL METHODOLOGIES IN HIGH VALUE ARCHAEOLOGICAL ITALIAN HERITAGE SITES Gregory DE MARTINO , Luigi CAPOZZOLI, Vincenzo LAPENNA, Davide DI GENNARO, Michele DI GIROLAMO, Giuseppe SALVIA, Gerardo ROMANO	9:20	CONTACTLESS GPR IMAGING OF VERTICAL STRUCTURES Giuseppe ESPOSITO , Gianluca GENNARELLI, Giovanni LUDENO, Francesco SOLDOVIERI, Ilaria CATAPANO
9:40	GROUND-PENETRATING RADAR SURVEY AT THE RASCINO PLATEAU (RIETI, CENTRAL ITALY): A PILOT STUDY FOR NON-INVASIVE ARCHAEOLOGICAL AND GEOARCHAEOLOGICAL INVESTIGATION IN MOUNTAIN ENVIRONMENTS Maurizio TROIANO , Luca FORTI, Fabrizio FREZZA, Cecilia CONATI BARBARO	9:40	A MICROWAVE IMAGING SYSTEM FOR NON-PLANAR BOUNDARY TARGETS: PRELIMINARY DESIGN AND RESULTS Antonio CUCCARO, Alessandro FEDELI, Romolo MARCELLI, Cristina PONTI, Emanuela PROIETTI , Andrea RANDAZZO, Giuseppe SCHETTINI, Raffaele SOLIMENE
10:00	INVESTIGATING MEDIEVAL RELIGIOUS ARCHITECTURE IN THE CENTRAL MEDITERRANEAN: A GPR STUDY OF ST ANNE’S CHURCH AT FORT ST ANGELO, MALTA Emanuele COLICA , Charlene VELLA, Sebastiano D’AMICO, Chiara TORRE	10:00	TIME GATING CLUTTER REMOVAL FOR RADAR IMAGING TECHNIQUES Stefano PISA , Orlandino TESTA, Renato CICCHETTI
10:20	GPR INVESTIGATIONS FOR THE STUDY OF STRUCTURAL TRANSFORMATIONS IN MEDIEVAL CHURCHES Matilde ASTRELLA	10:20	HEALTH ASSESSMENT OF PLANTS THROUGH NONLINEAR LEARNING-ASSISTED ELECTROMAGNETIC IMAGING Mohammad OMKI , Alessandro FEDELI, Andrea RANDAZZO

Coffee Break			
Session 1 <i>GPR applications for Cultural Heritage studies</i> <i>Chairs: Laura Cerri, Salvatore Piro, Luca Piroddi</i>		Session 3 <i>Planetary Georadar</i> <i>Chairs: Marco Mastrogiuseppe, Ilaria Catapano</i>	
11:30	GROUND PENETRATING RADAR (GPR) AND ARCHAEOLOGICAL EXCAVATION IN NORTHERN LAZIO BETWEEN COASTAL LANDSCAPES AND TUFAN PLATEAUX: NEW PERSPECTIVES BETWEEN PYRGI AND VEIO (ROME) Maurizio TROIANO, Marco MASTROGIUSEPPE, Gianni FURIASSI, Fabrizio FREZZA, Laura M. MICHETTI, Alessandro CONTI, Manuela BONADIES, Barbara BELELLI MARCHESINI	11:30	ELECTRIC PERMITTIVITY OF LUNAR REGOLITH ESTIMATED FROM HYPERBOLIC DIFFRACTIONS WITHIN THE CHANG'E-4 GPR DATA SET Matteo DOSSI, Sebastian Emanuel LAURO, Barbara COSCIOTTI, Elisabetta MATTEI, Federico TOSI, Elena PETTINELLI
11:50	GEORADAR PROSPECTING IN THE CHURCH OF SAN FRANCESCO DI PAOLA AI MONTI, ROME. Raffaele PERSICO, Paolo ZIMMARO	11:50	MICROWAVE TOMOGRAPHY ENHANCED LUNAR PENETRATING RADAR Ilaria CATAPANO, Giuseppe ESPOSITO, Gianluca GENNARELLI, Giovanni LUDENO, Francesco SOLDOVIERI
12:10	NON-INVASIVE SUBSURFACE SURVEY FOR THE IDENTIFICATION OF CRYPTS IN SANTA MARIA DI ALTOFONTE CHURCH, ALTOFONTE (PALERMO, SICILY) Patrizia CAPIZZI, Alessandra CAROLLO, Marco Vincenzo MAJANI, Raffaele MARTORANA, Alessandro CANZONERI	12:10	THICKNESS AND PERMITTIVITY ESTIMATION OF SUBSURFACE LAYERS Adriana BRANCACCIO, Angela DELL' AVERSANO, Raffaele SOLIMENE
12:30	GIS-BASED SPATIAL DOCUMENTATION FOR CONTEXTUAL ANALYSIS OF WATTLE AND DAUB HERITAGE HOUSES IN ARANTHALAWA, SRI LANKA Minuthi Sanaya RAMMUTHUPURA, Oshanie Kumudika RAMMUTHUPURA	12:30	A DRONE MOUNTED GPR FOR MARS SUBSURFACE ICE DETECTION Stefano PISA, Orlandino TESTA, Renato CICCHETTI, Andrea CICCHETTI
Lunch Break			
15:00	Sponsor exhibition - CODEVINTEC		
15:30	Sponsor exhibition – IDS – BOVIAR - GEOSTUDI ASTIER		
16:00	Sponsor exhibition – MICROGEO-PROCEQ		
16:30	Sponsor exhibition - GEORAD		
20:30	SOCIAL DINNER - La Limonaia (Via Lazzaro Spallanzani 1/A)		

Friday, September 12 AULA 1 “ANTONIO RUBERTI”		Friday, September 12 AULA 5	
Session 4 Engineering and Urban Applications <i>Chairs: Vincenzo Lapenna, Maurizio Ercoli</i>		Session 5 Integrated Methodologies <i>Chairs: Giorgio De Donno, Michele Cercato, Andrea Vergnano</i>	
9:00		9:00	FORENSIC GEOARCHAEOLOGY IN MISSING PERSONS CASES: FINDING THE TRUTH, EVEN WHEN FINDING NOTHING Pier Matteo BARONE
9:20	GPR AND MULTI-NDT METHODS FOR STEEL REBAR CORROSION MONITORING: EXAMPLES FROM SOME LABORATORY EXPERIMENTS Enzo RIZZO, Federica ZANOTTO, Andrea BALBO, Fabio MINGHINI, Andrea FABBRI, Vincenzo GRASSI	9:20	INTEGRATING GPR AND UAV PHOTOGRAMMETRY AT THE FORNI GLACIER TONGUE (STELVIO NATIONAL PARK, ITALY) Giorgio DE DONNO, Martina DI RITA, Kevin HANSON, Valeria BELLONI, Michele CERCATO, Mattia CRESPI
9:40	GPR FOR SINKHOLE DETECTION IN SOUTH KOREA: CHALLENGES, PRACTICES AND POLICY RESPONSES Sung Kwon AHN	9:40	THE FORUM OF AUGUSTA BAGIENNORUM (CUNEO, ITALY): INTEGRATION OF GPR SURVEYS WITH MULTI-METHODOLOGICAL GEOPHYSICAL INVESTIGATIONS Antonio MERICO, Fernando LINSALATA, Vincenzo SAPIA, Andrea VERGNANO, Cesare COMINA
10:00	NON-DESTRUCTIVE TESTS FOR MONITORING REINFORCED CONCRETE STRUCTURES IN LABORATORY CONDITIONS Giuseppe SALVIA, Davide DI GENNARO, Gregory DE MARTINO, Emilia VASANELLI, Stefania IMPERATORE, Francesca NERILLI, Maria ZUCCONI, Luigi CAPOZZOLI	10:00	INTEGRATING GPR AND ICE-THICKNESS MODELS FOR IMPROVED BEDROCK DETECTION: THE CASE STUDY OF RUTOR TEMPERATE GLACIER Andrea VERGNANO, Diego FRANCO, Alberto GODIO
10:20	MONITORING THE WATER INFRASTRUCTURE: THE TEAMWIRE PROJECT Chiara TORRE, Sebastiano D'AMICO, Emanuele COLICA, Julian MAMO, Lara DE GIORGI, Dora Francesca BARBOLLA, Giovanni LEUCCI	10:20	GPR AND ERT DATA INTEGRATION FOR GEOHAZARDS AND GEORESOURCES CHARACTERIZATION AND MONITORING: SOME FIELD CASES IN COASTAL AND RURAL AREAS Gerardo ROMANO, Domenico PATELLA, Michele DE GIROLAMO, Rossella GIANNUZZI, Davide DI GENNARO, Gregory DE MARTINO, Vincenzo LAPENNA, Luigi CAPOZZOLI
Coffee Break			
Session 4 Engineering and Urban Applications <i>Chairs: Vincenzo Lapenna, Maurizio Ercoli</i>			
11:30	INTEGRATING GEOPHYSICAL AND REMOTE SENSING TECHNIQUES FOR THE DETECTION OF UNDERGROUND VOIDS IN URBAN VOLCANIC ENVIRONMENTS: THE CASE STUDY OF CIVITA CASTELLANA (CENTRAL ITALY) Leonardo Maria GIANNINI, Siham YOUNSI, Benedetto BURCHINI, Rita DEIANA, Giorgio CASSIANI, Paolo CIAMPI	11:30	
11:50	IMPLEMENTATION OF GPR ATTRIBUTES FOR THE INTERPRETATION OF A HETEROGENOUS MEDIUM: AN APPLICATION TO A MASONRY WALL Giorgio ALAIA, Maurizio ERCOLI, Nicola CAVALAGLI	11:50	
Lunch Break			

Session 6 3D GPR vector imaging and parallel cloud computing Chairs: Gianluca Catanzariti, Alex Novo		Session 7 Advanced GPR systems Chairs: Paolo Papeschi, Maurizio Porcu	
15.00	NOVEL DUAL-POLARIZED, HIGH-FREQUENCY MCGPR FOR UNPRECEDENTED 3D IMAGE RESOLUTION OF THE SHALLOW SUBSURFACE Alex NOVO	15.00	UNVEILING THE SECRETS OF THE SUBSOIL. GPR TECHNIQUES AND APPLICATIONS Simone BARBATO
15.20	INDIRECT MEASUREMENT OF THE PROPAGATION VELOCITY OF THE ELECTROMAGNETIC WAVES IN A TWO-LAYERED MEDIUM THROUGH THE DIFFRACTION CURVES Raffaele PERSICO , Ding YANG, Gianfranco MORELLI, Luigi CAPOZZOLI, Gregory DE MARTINO, Ilaria CATAPANO, Giuseppe ESPOSITO	15.20	THREE-DIMENSIONAL IMAGING THROUGH UAV-BASED GPR AND MICROWAVE TOMOGRAPHY Giuseppe ESPOSITO , Gianluca GENNARELLI, Giovanni LUDENO, Francesco SOLDOVIERI, Ilaria CATAPANO
15.40	THE IMLAYMED SOFTWARE: A TOOL FOR THE IMAGING IN STRATIFIED SOILS Raffaele PERSICO , Ding Yang, Gianfranco MORELLI, Luigi CAPOZZOLI, Gregory DE MARTINO, Ilaria CATAPANO, Giuseppe ESPOSITO	15.40	ARTIFICIAL INTELLIGENCE FOR OBJECTIVE AND SCALABLE ANALYSIS OF GPR DATA: NEW TECHNOLOGIES AND REAL USE CASES Marco PESCI
16.00		16.00	3D MODELING OF GPR ANOMALIES: INTEGRATING PYTHON PROCESSING WITH UNREAL ENGINE RENDERING Marco Vincenzo MAJANI , Patrizia CAPIZZI, Alessandra CAROLLO, Raffaele MARTORANA