2018 IEEE International Workshop on Metrology for the Sea; Learning to Measure Sea Health Parameters (MetroSea 2018)

Bari, Italy
8 – 10 October 2018
Tuesday, October 9

**Special Session on Measurements in riverine, estuarine and coastal areas - PART I**

**Room:** Università di Bari, Palazzo Ateneo, Salone degli Affreschi

**Chairs:** Michele Mossa, Polytechnic University of Bari, DICATECh, Italy
Lorenzo Cappiotti, University of Florence, Italy

1. **Remote sensing and coastal morphodynamic modelling**
   - Mario Benincasa, Università Roma Tre, Italy
   - Federico Falcini, ISAC-CNR, Italy
   - Claudia Adduce, Università Roma Tre, Italy
   - Rosalia Santoleri, ISAC-CNR, Italy
   - Gianmaria Sannino, ENEA, Italy

7. **Shoreline rotation analysis of embayed beaches in the Central Thyrrenian Sea**
   - Guido Benassai, University of Naples "Parthenope", Italy
   - Diana Di Luccio, University of Naples "Parthenope", Italy
   - Luigi Mucerino, University of Genova, Italy
   - Gianluigi Di Paola, University of Molise, Italy
   - Carmen Maria Rosskopf, University of Molise, Italy
   - Giovanni Pugliano, University of Naples "Parthenope", Italy
   - Umberto Robustelli, University of Naples "Parthenope", Italy
   - Raffaele Montella, University of Naples "Parthenope", Italy

13. **Remote Sensed and In Situ Data: an integrated approach for Coastal Risk Assessment**
   - Maria F. Bruno, Technical University of Bari, Italy
   - Matteo G. Molfetta, Technical University of Bari, Italy
   - Michele Mossa, Technical University of Bari, Italy
   - Luigi Pratola, Technical University of Bari, Italy
   - Raffaele Nutricato, Geophysical Applications Processing srl, Italy
   - Alberto Morea, Geophysical Applications Processing srl, Italy
   - Davide O. Nitti, Geophysical Applications Processing srl, Italy
   - Maria T. Chiaradia, Technical University of Bari, Italy

18. **Wave characteristics estimation by GPS receivers installed on a sailboat travelling off-shore**
   - Paolo De Girolamo, Sapienza University of Rome, Italy
   - Mattia Crespi, Sapienza University of Rome, Italy
   - Alessandro Romano, Sapienza University of Rome, Italy
   - Augusto Mazzoni, Sapienza University of Rome, Italy
   - Marcello Di Risio, University of L’Aquila, Italy
   - Davide Pasquali, University of L’Aquila, Italy
   - Giorgio Bellotti, Roma Tre University, Italy
   - Myrta Castellino, Sapienza University of Rome, Italy
   - Paolo Sammarco, University of Rome Tor Vergata, Italy

23. **Underwater Remotely Operated Vehicles for fast and low cost bathymetry surveys**
   - Marcello Di Risio, University of L’Aquila, Italy
   - Gino D’Ovidio, University of L’Aquila, Italy
   - Daniele Celli, Technical University of Bari, Italy
   - Davide Pasquali, University of L’Aquila, Italy

28. **Hyperspectral characterization of marine plastic litters**
   - Marco Balsi, Sapienza University of Rome, Italy
   - Salvatore Esposito, OBEN SRL, Italy
   - Monica Moroni, Sapienza University of Rome, Italy
Automatic Extraction of Shoreline from Satellite Images: a new approach
Anna Spinosa, Dept. of IRP - Deltares, The Netherlands
Alex Ziemba, Dept. of IRP - Deltares, The Netherlands
Alessandra Saponieri, Politecnico di Bari, Italy
Victor D. Navarro-Sanchez, Starlab Barcelona SL, Spain
Leonardo Damiani, Politecnico di Bari, Italy
Ghada El Serafy, Dept. of IRP - Deltares, The Netherlands

Special Session on Underwater Measurement for 3D Characterization of Subsea Objects
Room: Università di Bari, Palazzo Ateneo, Sala delle Aquile
Chairs: Enrico Primo Tomasini, Università Politecnica delle Marche, Italy

Preliminary assessment of Photogrammetric. Approach for detailed dimensional and colorimetric reconstruction of Corals in underwater environment
Rachele Napolitano, Università Politecnica delle Marche, Italy
Paolo Chiariotti, Università Politecnica delle Marche, Italy
Enrico Primo Tomasini, Università Politecnica delle Marche, Italy

Multiscale reconstruction of natural and archaeological underwater landscape by optical and acoustic sensors
Gaia Mattei, Parthenope University of Naples, Italy
Salvatore Troisi, Parthenope University of Naples, Italy
Pietro P.C. Aucelli, Parthenope University of Naples, Italy
Gerardo Pappone, Parthenope University of Naples, Italy
Francesco Peluso, Parthenope University of Naples, Italy
Michele Stefanile, L’Orientale University, Italy

Special Session on Measurements in riverine, estuarine and coastal areas - PART II
Room: Università di Bari, Palazzo Ateneo, Salone degli Affreschi
Chairs: Michele Mossa, Polytechnic University of Bari, DICATECh, Italy
Lorenzo Cappetti, University of Florence, Italy

Modelling of short-term dispersion in the sea surface layer
Agnese Pini, University of Rome “La Sapienza”, Italy
Giovanni Leuzzi, University of Rome “La Sapienza”, Italy
Paolo Monti, University of Rome “La Sapienza”, Italy
Matteo Manfredi, University of Rome “La Sapienza”, Italy

Assessing water exchange between sea and the Orbetello lagoon (Italy) by field measurements and numerical simulations
Lorenzo Cappetti, University of Florence, Italy
Ilaria Crema, University of Florence, Italy
Irene Simonetti, University of Florence, Italy

Anisotropic Dispersion in Rotating Fluids: a Laboratory Model of Large Scale Flows
Stefania Espa, Sapienza University of Rome, Italy
Guglielmo Lacorata, ISAC-CNR, Italy

Velocity and turbulence measurements: uncertainty in the application of the Image-based technique
Donatella Termini, University of Palermo, Italy

Laboratory experiments on solitary wave interaction with rigid emergent vegetation: some preliminary results
Davide Tognin, University of Padova, Italy
Paolo Peruzzo, University of Padova, Italy
Francesca De Serio, Politecnico University of Bari, Italy
Mouldi Ben Mefiah, Politecnico University of Bari, Italy
Luca Carniello, University of Padova, Italy
Andrea Defina, University of Padova, Italy
Michele Mossa, Polytechnic University of Bari, Italy
Monitoring for Coastal Resilience: A Project for Five Italian Beaches

Lorenzo Melito, Università Politecnica delle Marche, Italy
Luca Purlagreco, ISPRA, Italy
Eleonora Perugini, Università Politecnica delle Marche, Italy
Matteo Postacchini, Università Politecnica delle Marche, Italy
Gianluca Zitti, Università Politecnica delle Marche, Italy
Maurizio Brocchini, Università Politecnica delle Marche, Italy

Special Session on Metrological Traceability of Oceanic Parameters

Room: Università di Bari, Palazzo Ateneo, Sala delle Aquile
Chairs: Francesca Rolle, Istituto Nazionale di Ricerca Metrologica (INRiM), Italy
P. Alberto Giuliano Albo, Istituto Nazionale di Ricerca Metrologica (INRiM), Italy

A spar buoy-mounted ADCP measurement station in the Ligurian Sea: a metrological approach to correct current measures for bias effects and evaluate uncertainties

Giancarlo Raiteri, S. Teresa Research Centre, ENEA, Italy
Andrea Bordone, S. Teresa Research Centre, ENEA, Italy
Tiziana Ciuffardi, S. Teresa Research Centre, ENEA, Italy
Antonio Schirole, S. Teresa Research Centre, ENEA, Italy
Francesca Pennecchi, INRiM, Italy
Roberto Bozzano, IAS-CNR, Italy
Sara Pensieri, IAS-CNR, Italy

European Metrology Network on Climate and Ocean Observation: building a 'one-stop shop' for reliable measurements of ECVs

Fernando Sparasci, LNE-Cnam, France
Paola Fisicaro, Laboratoire National de Métrologie et d’Essais, France
Carmen Garcia Izquierdo, Centro Español de Metrología, Spain
Ivo Leito, University of Tartu, Estonia
Teemu Näykki, Finnish Environment Institute, Finland
Andrea Peruzzi, VSL-Nederlands Metrologisch Instituut, The Netherlands
Michela Sega, Istituto Nazionale di Ricerca Metrologica, Italy
Steffen Seitz, Physikalisch-Technische Bundesanstalt, Germany
Emma Woolliams, National Physical Laboratory, UK

Seawater density measurements in the temperature range between 278.15 K and 308.15 K at ambient pressure

Raffaella Romeo, Istituto Nazionale di Ricerca Metrologica, Italy
Simona Lago, Istituto Nazionale di Ricerca Metrologica, Italy
Paolo Alberto Giuliano Albo, Istituto Nazionale di Ricerca Metrologica, Italy
Marc Le Menn, French Hydrographic and Oceanographic Service, France

Density measurements of IAPSO Standard Seawater by hydrostatic weighing

Paolo Alberto Giuliano Albo, Istituto Nazionale di Ricerca Metrologica, Italy
Simona Lago, Istituto Nazionale di Ricerca Metrologica, Italy
Raffaella Romeo, Istituto Nazionale di Ricerca Metrologica, Italy

Stable carbon isotope signatures in atmosphere and seawater as a basis for climate change studies

Francesca Rolle, Istituto Nazionale di Ricerca Metrologica, Italy
Michela Sega, Istituto Nazionale di Ricerca Metrologica, Italy

Special Session on Measurements in riverine, estuarine and coastal areas - PART III

Room: Università di Bari, Palazzo Ateneo, Sala degli Affreschi
Chairs: Michele Mossa, Polytechnic University of Bari, DICATECh, Italy
Lorenzo Cappietti, University of Florence, Italy
Monitoring System in Mar Grande Basin (Ionian Sea)
Elvir Armenio, Polytechnic University of Bari, Italy
Mouldi Ben Mefiah, Polytechnic University of Bari, Italy
Diana De Padova, Polytechnic University of Bari, Italy
Francesca De Serio, Polytechnic University of Bari, Italy
Michele Mossa, Polytechnic University of Bari, Italy

Nanostructured MnO2 for phenolic compounds degradation and monitoring
Roberto Di Chio, University of Messina, Italy
Francesco Arena, University of Messina, Italy
Salvatore Gianluca Leonardi, University of Messina, Italy
Giovanni Neri, University of Messina, Italy
Nicola Donato, University of Messina, Italy

Microplastic samplings and inverse trajectory recognition in the Mediterranean Sea
Agnese Pini, University of Rome "La Sapienza", Italy
Paolo Tomassetti, CN-LAB ISPRA, Italy
Marco Matiddi, CN-LAB ISPRA, Italy
G. Andrea de Lucia, IAMC-CNR, Italy
Andrea Camedda, IAMC-CNR, Italy
Giorgio Zampetti, Legambiente, Italy
Chiara Lattanzi, University of Rome "La Sapienza", Italy
Giovanni Leuzzi, University of Rome "La Sapienza", Italy
Paolo Monti, University of Rome "La Sapienza", Italy

An Innovative System for Testing of Contaminated Soft Sediments
Francesca Sollecito, Polytechnic University of Bari, Italy
Osvaldo Bottiglieri, Polytechnic University of Bari, Italy
Federica Cotecchia, Polytechnic University of Bari, Italy
Daniela Miccoli, Polytechnic University of Bari, Italy
Francesco Todaro, Polytechnic University of Bari, Italy
Claudia Vitone, Polytechnic University of Bari, Italy
Francesco Adamo, Polytechnic University of Bari, Italy
Gregorio Andria, Polytechnic University of Bari, Italy
Attilio Di Nisio, Polytechnic University of Bari, Italy
Anna Maria Lucia Lanzolla, Polytechnic University of Bari, Italy
Maurizio Spadavecchia, Polytechnic University of Bari, Italy

Special Session on Innovative solutions for marine mammals and sea-turtles monitoring - PART I
Room: Università di Bari, Palazzo Ateneo, Sala delle Aquile
Chairs: Roberto Carlucci, University of Bari "Aldo Moro", Italy
Rosalia Maglietta, CNR-ISSIA, Italy
Marta Azzolin, University of Turin, Italy/Gaia Research Institute Onlus

Exploiting species-distinctive visual cues towards the automated photo-identification of the Risso's dolphin Grampus griseus
Vito Renò, National Research Council, Italy
Giovanni Dimauro, University of Bari, Italy
Gabriele Labate, University of Bari, Italy
Ettore Stella, National Research Council, Italy
Carmelo Fanizza, Jonian Dolphin Conservation, Italy
Francesca Capezzuto, University of Bari, Italy
Giulia Cipriano, University of Bari, Italy
Roberto Carlucci, University of Bari, Italy
Rosalia Maglietta, National Research Council, Italy
**Social Media for Social Species: A case study on the behavioural transitions of bottlenose dolphins (Tursiops truncatus) in the presence of tourism, Montenegro, South Adriatic**

Jack Clarkson, Marine Mammals Research, Turkey
Lucy Abbiss, Marine Mammals Research, Turkey
Aylin Akkaya Bas, Marine Mammals Research, Turkey

**A dedicated ethogram and the employment of the software BORIS for monitoring striped dolphin surface behaviour in Greece (Gulf of Corinth)**

Marta Azzolin, Gaia Research Institute Onlus, Italy
Sebastien Saintignan, Gaia Research Institute Onlus, Italy
Laura Pintore, Gaia Research Institute Onlus, Italy
Olivier Friard, University of Turin, Italy
Marco Gamba, University of Turin, Italy
Aylin Akkaya Bas, Marine Mammals Research, Turkey

**Employing ferry as platform of observation for monitoring Loggerhead sea turtle (Caretta caretta) distribution in the Adriatic-Ionian Region**

Arianna Zampollo, Gaia Research Institute Onlus, Italy
Marta Azzolin, Gaia Research Institute Onlus, Italy
Antonella Arcangeli, ISPRA Department for Nature Conservation, Italy
Joana Buoninsegni, Accademia del Leviatano, Italy
Miriam Paraboschi, Accademia del Leviatano, Italy
Roberto Crosti, ISPRA BIO-SOST Department, Italy
Chiara Mancino, Gaia Research Institute Onlus, Italy
Cristina Giacoma, University of Turin, Italy

**Multi source data analysis for improving striped dolphin distribution modelling at a regional scale**

Marta Azzolin, Gaia Research Institute Onlus, Italy
Sebastien Saintignan, Gaia Research Institute Onlus, Italy
Arianna Zampollo, Gaia Research Institute Onlus, Italy
Roberto Carlucci, University of Bari, Italy
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Antonella Arcangeli, ISPRA Department for Nature Conservation, Italy
Pasquale Ricci, University of Bari, Italy
Carmelo Fanizza, Jonian Dolphin Conservation, Italy
Arianna Vetrugno, Accademia del Leviatano, Italy
Martina Ramazio, UNIVPM - DiSVA, Italy
Cristina Giacoma, University of Turin, Italy

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**Wednesday, October 10**

**General Session - PART I**

Room: Università di Bari, Palazzo Ateneo, Salone degli Affreschi

Chairs: Aimè Lay-Ekuakille, University of Salento, Italy

**A multiparametric method for the classification of the seabed from acoustic backscattered signal**

Maurizio Demarte, Italian Hydrographic Institute, Italy
Roberto Nardini, Italian Hydrographic Institute, Italy
Mauro Marro, Italian Hydrographic Institute, Italy
Cosmo Peluso, Italian Navy, Italy
Roberta Ivaldi, Italian Hydrographic Institute, Italy

**Case Study-based Overview of Selected Measurements in Ship Systems**

Janusz Mindykowski, Gdynia Maritime University, Poland
Boleslaw Dudojć, Gdynia Maritime University, Poland
Special Session on Acquisition, processing and interpretation of marine geology data

Room: Università di Bari, Palazzo Ateneo, Sala delle Aquile

Chairs: Maria Rosaria Senatore, University of Sannio, Italy
       Donatella D. Insinga, IAMC-CNR, Italy

162 Shoreline erosion of microtidal beaches examined with UAV and remote sensing techniques
Ferdinando Nunziata, University of Naples "Parthenope", Italy
Andrea Buono, University of Naples "Parthenope", Italy
Maurizio Migliaccio, University of Naples "Parthenope", Italy
Guido Benassai, University of Naples "Parthenope", Italy
Diana Di Luccio, University of Naples "Parthenope", Italy

167 Seafloor habitat mapping on the "Pelagie Islands" MPA (Sicily Channel) using Remote Sensing Object Image Analysis supported by multibeam bathymetry and ground-truth data
Sara Innangi, IAMC-CNR, Italy
Renato Tonielli, IAMC-CNR, Italy
Claudia Romagnoli, Università di Bologna, Italy
Gabriella Di Martino, IAMC-CNR, Italy
Michele Innangi, Università degli Studi della Campania "Luigi Vanvitelli", Italy

Special Session on Innovative solutions for marine mammals and sea-turtles monitoring - PART II

Room: Università di Bari, Palazzo Ateneo, Salone degli Affreschi

Chairs: Roberto Carlucci, University of Bari "Aldo Moro", Italy
        Rosalia Maglietta, CNR-ISSIA, Italy
        Marta Azzolin, University of Turin, Italy/Gaia Research Institute Onlus

173 Site fidelity, residency and habitat use of the Risso’s dolphin Grampus griseus in the Gulf of Taranto (Northern Ionian Sea, Central-eastern Mediterranean Sea) by photo-identification
Roberto Carlucci, University of Bari, Italy
Aylin Akkaya Bas, Istanbul University, Turkey
Rosalia Maglietta, National Research Council, Italy
Vito Renò, National Research Council, Italy
Carmelo Fanizza, Jonian Dolphin Conservation, Italy
Aldo Rizzo, Jonian Dolphin Conservation, Italy
Roberto Crugliano, Jonian Dolphin Conservation, Italy
Giulia Cipriano, University of Bari, Italy

178 Distribution and causes of sea turtles stranding on the Ionian coast of Calabria, Apulia and Basilicata
Gianluca Cirelli, Oasi WWF Policoro Herakleia, Italy
Annachiara Pisto, Oasi WWF Policoro Herakleia, Italy
Francesca Ardolino, Oasi WWF Policoro Herakleia, Italy
Antonio Colucci, Oasi WWF Policoro Herakleia, Italy
Nicola Tragni, Italy
Erika Ottone, Italy
Francesca Catucci, Oasi WWF Policoro Herakleia, Italy
Vincenzo Aquaro, Italy

183 The promise of machine learning in the Risso’s dolphin Grampus griseus photo-identification
Rosalia Maglietta, National Research Council, Italy
Andrea Bruno, University of Bari, Italy
Vito Renò, National Research Council, Italy
Giovanni Dimaro, University of Bari, Italy
Ettore Stella, National Research Council, Italy
Carmelo Fanizza, Jonian Dolphin Conservation, Italy
Stefano Bellomo, Jonian Dolphin Conservation, Italy
Giulia Cipriano, University of Bari, Italy
Angelo Tursi, University of Bari, Italy
Roberto Carlucci, University of Bari, Italy
Emission rate of acoustic signals for the common bottlenose and striped dolphins in the Gulf of Taranto (Northern Ionian sea, central-eastern Mediterranean sea)

Carmelo Fanizza, Jonian Dolphin Conservation, Italy
Maria Cerudo, BioacousticsLab, IAMC-CNR, Italy
Rosalia Maglietta, National Research Council, Italy
Giulia Cipriano, University of Bari, Italy
Francesca Cornelia, Jonian Dolphin Conservation, Italy
Giuseppe Buscaino, BioacousticsLab, IAMC-CNR, Italy
Rosario Grammauta, BioacousticsLab, IAMC-CNR, Italy
Letizia Sion, University of Bari, Italy
Roberto Carlucci, University of Bari, Italy

A model of environmental suitability for the conservation of the loggerhead turtle Caretta caretta in the Southern Adriatic and Northern Ionian Sea (Central Mediterranean Sea)

Manuel Marra, University of Bari Aldo Moro, Italy
Cataldo Pierri, University of Bari Aldo Moro, Italy
Paolo Colangelo, Institute of Agro-environmental and Forest Biology, CNR, Italy
Roberto Carlucci, University of Bari Aldo Moro, Italy
Giuseppe Correro, University of Bari Aldo Moro, Italy
Giovanni Scillitani, University of Bari Aldo Moro, Italy

General Session - PART II
Room: Università di Bari, Palazzo Ateneo, Sala delle Aquile
Chairs: Anna Lanzolla, Polytechnic University of Bari, Italy

Micro Climate Prediction Utilising Machine Learning Approaches

Anastasia Eleftheriou, Center for Technology Research & Innovation, Cyprus
Petros Karvelis, Computer Technology Institute & Press "Diophantus", Greece
Kostas Kouvaris, Center for Technology Research & Innovation, Cyprus
Chryssostomos Stylios, Computer Technology Institute & Press "Diophantus", Greece

Underwater Hyperspectral Imaging for seafloor and benthic habitat mapping

Federica Foglini, Institute of Marine Sciences, CNR, Italy
Giovanni Chimienti, University of Bari, Italy
Agostino N. Meroni, University of Milano-Bicocca, Italy
Marta Cristina Prampolini, Institute of Marine Sciences, CNR, Italy
Fabio Badalamenti, Institute for Coastal and Marine Environment, CNR, Italy
Eleonora Martorelli, Institute of Environmental Geology and Engineering, CNR, Italy
Lorenzo Angeletti, Institute of Marine Sciences, CNR, Italy
Valentina Grande, Institute of Marine Sciences, CNR, Italy
Fabio Marchese, University of Milano-Bicocca, Italy
Marco Taviani, Institute of Marine Sciences, CNR, Italy
Cesare Corselli, University of Milano-Bicocca, Italy
Alessandra Savini, University of Milano-Bicocca, Italy
Valentina Bracchi, University of Milano-Bicocca, Italy
Ingrid Myrnes Hansen, ECOTONE AS, Norway
Alessandra Mercorella, Institute of Marine Sciences, CNR, Italy
Agostina Vertino, University of Milano-Bicocca, Italy
Ivar Erdal, ECOTONE AS, Norway

AMERIGO and CBA: a new lander and a new automatic benthic chamber for dissolved benthic flux measurements

Federico Spagnoli, Institute of Marine Sciences, CNR, Italy
Giordano Giuliani, Institute of Marine Sciences, CNR, Italy
Valter Martinotti, Dipartimento Sviluppo sostenibile e Fonti Energetiche, RSE SpA, Italy
Lara Masini, Institute for Microelectronics and Microsystems, CNR, Italy
Pierluigi Penna, Institute of Marine Sciences, CNR, Italy
212 Biometric relationships in the red sea pen Pennatula rubra (Cnidaria: Pennatulacea)
  Giovanni Chimienti, University of Bari Aldo Moro, Italy
  Angelo Tursi, University of Bari Aldo Moro, Italy
  Francesco Mastrototaro, University of Bari Aldo Moro, Italy

Special Session on Geomatic for Navigation

Room: Università di Bari, Palazzo Ateneo, Salone degli Affreschi
Chairs: Salvatore Gaglione, Parthenope University of Naples, Italy

217 Accuracy evaluation of Doresa and Milena Galileo satellites broadcast ephemerides
  Umberto Robustelli, Parthenope University of Naples, Italy
  Guido Benassai, Parthenope University of Naples, Italy
  Giovanni Pagliano, Parthenope University of Naples, Italy

222 Multi-GNSS Single Frequency Precise Point Positioning
  Anna Innac, Parthenope University of Naples, Italy
  Salvatore Gaglione, Parthenope University of Naples, Italy
  Antonio Angrisano, G. Fortunato University, Italy

227 Incidence of Fourier transform parameters on sea spectrum resampling from wave time history
  Silvia Pennino, Parthenope University of Naples, Italy
  Vincenzo Piscopo, Parthenope University of Naples, Italy
  Antonio Scamardella, Parthenope University of Naples, Italy

232 IoT for Buoy Monitoring System
  Silvio Del Pizzo, iNAV S.a.s. – Geomatic Solutions, Italy
  Aniello De Martino, Prisma S.r.l., Italy
  Giancarlo De Viti, Monitoring System S.r.l., Italy
  Rosa Linda Testa, iNAV S.a.s. – Geomatic Solutions, Italy
  Giuseppe De Angelis, Prisma S.r.l., Italy

General Session - PART III

Room: Università di Bari, Palazzo Ateneo, Sala delle Aquile
Chairs: Gregorio Andria, Polytechnic University of Bari, Italy

242 Implementation of a Pilot Monitoring Plan in Bourgas Seaport
  Magdalena Korsachka, NIMH-BAS, Bulgaria
  Jordan Marinski, NIMH-BAS, Bulgaria
  Veronika Andrea, Technological Educational Institute of Epirus, Greece
  Chrysostomos Stylios, Technological Educational Institute of Epirus, Greece

247 Optical coupling of spherical microresonators with tapered fibers for chemical/biomedical applications
  Dario Laneve, Polytechnic University of Bari, Italy
  Daniele Farnesi, Institute of Applied Physics, CNR, Italy
  Francesco Baldini, Institute of Applied Physics, CNR, Italy
  Mario Christian Falconi, Polytechnic University of Bari, Italy
  Gualtiero Nunzi Conti, Institute of Applied Physics, CNR, Italy
  Francesco Prudenzano, Polytechnic University of Bari, Italy
  Francesco Chiavaioli, Institute of Applied Physics, CNR, Italy
  Silvia Soria, Institute of Applied Physics, CNR, Italy

252 Wind tunnel measurements for the characterization of a small scale monoplane Wells turbine
  Marco Torresi, Polytechnic University of Bari, Italy
  Sergio Mario Camporeale, Polytechnic University of Bari, Italy
A High Accuracy Buoyancy System Control for an Underwater Glider
Enrico Petritoli, Università degli Studi "Roma Tre", Italy
Fabio Leccese, Università degli Studi "Roma Tre", Italy
Marco Cagnetti, Università degli Studi "Roma Tre", Italy

POSTER SESSION

A Simple Takagi-Sugeno Fuzzy Modelling Case Study for an Underwater Glider Control System
F. Leccese, Università degli Studi "Roma Tre", Italy
M. Cagnetti, Università degli Studi "Roma Tre", Italy
S. Giarnetti, Università degli Studi "Roma Tre", Italy
E. Petritoli, Università degli Studi "Roma Tre", Italy
I. Luisedo, Università degli Studi "Roma Tre", Italy
S. Tuti, Università degli Studi "Roma Tre", Italy
A. Pecora, IMM-CNR, Italy
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R. Đurović-Pejić, Institute of Pesticides and Environmental Protection, Serbia
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V. Bursić, Institute of Pesticides and Environmental Protection, Serbia
E. De Francesco, SeTeL srl, Italy
R. Quadarella, RoTechnology s.r.l, Italy
L. Bozzi, RoTechnology s.r.l, Italy
V. Arenella, Fonderie Digitali s.r.l, Italy
P. Gabriele, Fonderie Digitali s.r.l, Italy
G. Schirripa Spagnolo, Università degli Studi "Roma Tre", Italy
C. Formisano, Systemdesign s.r.l, Italy

Development of a Sensor for Leak Detection in Underground Water Pipelines
Nicola Giaquinto, Politecnico di Bari, Italy
Giuseppe Maria D'Aucelli, Politecnico di Bari, Italy
Rocco D'Ingillo, Politecnico di Bari, Italy
Francesco Prudenzano, Politecnico di Bari, Italy
Filippo Attivissimo, Politecnico di Bari, Italy

Sedimentological analyses to identify Centennial-scale climatic variability during the upper Holocene. A gravity core collected on the Apulia continental slope in the Gulf of Taranto
Agostino Meo, University of Sannio, Italy
Maddalena Falco, University of Sannio, Italy
Gemma Ercilla, Departament de Geociències Marines, Institut de Ciències del Mar, Spain
Belen Alonso, Departament de Geociències Marines, Institut de Ciències del Mar, Spain
Maria Rosaria Senatore, University of Sannio, Italy

Mitigation of leverage observation effects in GNSS robust positioning
Antonio Angrisano, G. Fortunato University, Italy
Salvatore Gaglione, Parthenope University, Italy

Metrological Aspects in Approximate Computing: Fourier Transform in Polluted Water Spectroscopy
Aimé Lay-Ekuakille, University of Salento, Italy
Paolo Visconti, University of Salento, Italy
Sabino Maggi, IRSA-CNR, Italy
Giuseppe Passarella, IRSA-CNR, Italy
Delia Evelina Bruno, IRSA-CNR, Italy

Index of Authors