

Servizio Ragioneria	
Vista la disponibilità dei fondi sui capitoli: U11.5110 del bilancio per l'esercizio finanziario in corso; preso impegno/accertamento al N°	
Il Responsabile Uff. Contabilità	FIRMATO
Visto il Responsabile Uff. Progr. Risorse	

AUTORITÀ DI SISTEMA PORTUALE DEL MAR LIGURE OCCIDENTALE

Decreto N. 732

IL DIRIGENTE

DELLO STAFF PROGRAMMA STRAORDINARIO

VISTA la legge 28 gennaio 1994, n. 84, di riordino della legislazione in materia portuale, il Decreto Legislativo n. 169 del 4 agosto 2016 e il Decreto Legislativo n. 232 del 13 dicembre 2017;

VISTO il decreto del Ministro delle Infrastrutture e dei Trasporti del 29 dicembre 2020 n. 601, notificato all'Ente in pari data, di nomina del Dott. Paolo Emilio Signorini nella carica di Presidente dell'Autorità di Sistema Portuale del Mar Ligure Occidentale;

VISTA la deliberazione assunta dal Comitato di Gestione nella seduta del 18 maggio 2021, Prot. n. 19/1/2021, concernente la nomina dell'Avv. Paolo Piacenza a Segretario Generale dell'Autorità di Sistema Portuale del Mar Ligure Occidentale a far data dal 18 maggio 2021;

VISTO il decreto n. 477 del 20 maggio 2021 concernente la delibera del Comitato di Gestione del 18 maggio 2021, Prot. n. 19/1/2021;

VISTO il Regolamento di Amministrazione e di Contabilità dell'ex Autorità portuale approvato dal Comitato Portuale nella seduta del 23 aprile 2007, integrato dal Ministero dei Trasporti e dal Ministero dell'Economia e delle Finanze con nota del 26 giugno 2007, integrato dal Comitato Portuale con

delibera 117/2 nella seduta del 29 novembre 2011 ed approvato dal Ministero delle Infrastrutture e dei Trasporti, di concerto con il Ministero dell'Economia e delle Finanze, con nota M_TRA/PORTI/3927 del 26 marzo 2012;

VISTO l'art. 22 comma 4 del Decreto Legislativo 4 agosto, n. 169 con cui, fino all'approvazione del regolamento di contabilità di cui all'art. 6, comma 9, della Legge n.84 del 1994, come modificato dal decreto di cui trattasi, l'Autorità di Sistema Portuale applica il regolamento di contabilità della soppressa Autorità portuale dove ha sede la stessa Autorità di Sistema Portuale;

VISTO l'art. 8 della Legge 84/94 ed in particolare il comma 2 che dispone che al Presidente spetta la gestione delle risorse finanziarie in attuazione del piano di cui all'articolo 9, comma 5, lettera b;

VISTA la deliberazione assunta dal Comitato di Gestione nella seduta del 4 luglio 2017, Prot. n. 45/6, con la quale è stata adottata la nuova dotazione organica dell'AdSP, approvata dal Ministero delle Infrastrutture e dei Trasporti con nota prot. n. 21803 del 31 luglio 2017;

VISTO il decreto n. 1889 del 21 novembre 2017, come modificato con decreti n.ri 353/20, 524/20, 815/20, 834/20 e n. 11 del 15 gennaio 2021, con il quale è stata approvata la nuova organizzazione, la declaratoria delle strutture dirigenziali e il relativo funzionigramma dell'AdSP, nonché il decreto n. 2077 del 14 dicembre 2017 che posticipa al 1° gennaio 2018 l'efficacia di tale decreto;

VISTI i decreti n. 2306 del 29 dicembre 2017 e n. 1129 del 15 giugno 2018 di attribuzione degli incarichi dirigenziali alle strutture dell'AdSP di cui al decreto n. 1889 del 21 novembre 2017;

VISTO il Bilancio di Previsione 2021 approvato dal Comitato di Gestione con Delibera n. 95/6 nella seduta del 07.12.2020 ed approvato dal Ministero delle Infrastrutture e dei Trasporti con nota prot. AdSP n. 16/02/2021.0004739.E (prot. M_INF.VPTM.REGISTRO UFFICIALE.U.0004385 del 15.02.2021);

VISTO il decreto n. 247 del 18/03/2021 con il quale sono stati assegnati i budget finanziari a ciascun Centro di Responsabilità dell'Ente;

VISTO il decreto n. 393 del 24 aprile 2021 con il quale sono state approvate le linee guida per la verifica di regolarità amministrativo-contabile dei provvedimenti aventi impatto economico finanziario di bilancio;

VISTO il Decreto Legge 28 settembre 2018, n. 109, convertito nella Legge 16 novembre 2018, n. 130, recante "Disposizioni urgenti per la città di Genova, la sicurezza della rete nazionale delle infrastrutture e dei trasporti, gli eventi sismici del 2016 e 2017, il lavoro e le altre emergenze";

VISTO il D.P.C.M. del 4 ottobre (annotato dal Segretariato Generale della Presidenza del Consiglio dei Ministri al n. 3008 del 5 ottobre 2018), avente ad oggetto la "Nomina del dott. Marco Bucci a Commissario Straordinario per la ricostruzione ai sensi dell'art. 1, comma 1, del Decreto Legge 28 settembre 2018";

VISTO l'art. 1, comma 5, del Decreto Legge 28 settembre 2018, n. 109, convertito con Legge 16 novembre 2018, n. 130, il quale prevede che "Per la

demolizione, la rimozione, lo smaltimento e il conferimento in discarica dei materiali di risulta, nonché per la progettazione, l'affidamento e la ricostruzione dell'infrastruttura e il ripristino del connesso sistema viario, il Commissario Straordinario opera in deroga ad ogni disposizione di legge diversa da quella penale, fatto salvo il rispetto delle disposizioni del codice delle leggi antimafia e delle misure di prevenzione, di cui al Decreto Legislativo 6 settembre 2011, n. 159, nonché dei vincoli inderogabili derivanti dall'appartenenza all'Unione europea.

VISTO altresì, l'articolo 9-bis della richiamata Legge 16 novembre 2018, n. 130 ove è previsto che "Il Commissario straordinario adotta, entro il 15 gennaio 2019, con propri provvedimenti, su proposta dell'Autorità di Sistema Portuale del Mar Ligure occidentale, un programma straordinario di investimenti urgenti per la ripresa e lo sviluppo del porto e delle relative infrastrutture di accessibilità e per il collegamento intermodale dell'aeroporto Cristoforo Colombo con la città di Genova, da realizzare a cura della stessa Autorità di Sistema Portuale entro trentasei mesi dalla data di adozione del provvedimento commissariale, con l'applicazione delle deroghe di cui all'articolo 1, nei limiti delle risorse finalizzate allo scopo, ivi comprese le risorse previste nel bilancio della citata Autorità di sistema portuale e da altri soggetti";

VISTO il Decreto n. 3 del 15 novembre 2018 a mezzo del quale il Commissario Straordinario ha disposto che le attività per la demolizione, la rimozione, lo smaltimento e il conferimento in discarica dei materiali di

risulta, nonché per la progettazione, l'affidamento e la ricostruzione dell'infrastruttura e il ripristino del connesso sistema viario - compresa la direzione dei lavori, le procedure per la sicurezza dei lavori ed il collaudo ed ogni attività propedeutica e connessa relativa anche a servizi e forniture - vengano affidate, ai sensi dell'art. 32, comma 2 lettera c) della direttiva 2014/24/UE, mediante una o più procedure negoziate senza previa pubblicazione di bandi o avvisi e che la stipulazione dei contratti avvenga nel rispetto delle norme previste dalla legge di conversione del Decreto Legge n. 109 del 2018;

VISTO il Decreto n. 2 del 15 gennaio 2019, a mezzo del quale il Commissario Straordinario ha approvato il "Programma straordinario di investimenti urgenti per la ripresa e lo sviluppo del porto e delle relative infrastrutture di accessibilità e per il collegamento intermodale dell'aeroporto Cristoforo Colombo con la città di Genova" (di seguito "Programma Straordinario") proposto dall'Autorità di Sistema Portuale del Mar Ligure Occidentale;

VISTO il decreto n. 15 del 11/04/2019 a mezzo del quale il Commissario Straordinario ha individuato nell'Autorità di Sistema Portuale del Mar Ligure Occidentale il soggetto attuatore degli interventi di cui all'art. 6 comma 1 del D.L. 109 del 2018;

VISTO il Decreto n. 19 del 3 maggio 2019 con il quale il Commissario ha confermato, ai sensi dell'art. 9 bis della legge 130/2018, l'Autorità di Sistema Portuale del Mar Ligure Occidentale quale soggetto attuatore degli interventi previsti nel "Programma Straordinario" approvato con Decreto n. 2

del 15/01/2019 prendendo atto che la stessa procederà all'attuazione degli interventi previsti applicando, nella propria autonomia amministrativa e negoziale, le deroghe previste dall'art. 1 della L. 130/2018 con le modalità definite nel "Piano Procedurale" allegato al decreto;

VISTO, altresì, l'articolo 9-bis della Legge n. 130/2018, rubricato "Semplificazione delle procedure di intervento dell'Autorità di Sistema Portuale del Mar Ligure Occidentale", così come modificato dal comma 72 articolo 1 della Legge n. 160/2019 (Legge di Bilancio 2020) in virtù del quale il Programma Straordinario viene esteso anche a favore dei lavori di messa in sicurezza e di adeguamento idraulico del rio Molinassi e del rio Cantarena, di adeguamento alle norme in materia di sicurezza dei luoghi di lavoro nonché di razionalizzazione dell'accessibilità dell'area portuale industriale di Genova Sestri Ponente prevedendo che il Commissario Straordinario aggiorni il Programma entro il 28 febbraio 2020;

RICHIAMATO il decreto di AdSP n. 723 del 16/05/2019 mediante cui è stata istituita la struttura operativa dedicata a seguire gli interventi descritti nel "Programma Straordinario di investimenti urgenti per la ripresa e lo sviluppo del porto e delle relative infrastrutture di accessibilità e per il collegamento intermodale dell'aeroporto Cristoforo Colombo con la città di Genova";

VISTO il Decreto n. 1 del 28 febbraio 2020 con il quale il Commissario ha, tra l'altro:

1. adottato l'aggiornamento al "Programma straordinario di investimenti urgenti per la ripresa e lo sviluppo del porto e delle relative infrastrutture

di accessibilità e per il collegamento intermodale dell'aeroporto Cristoforo Colombo con la città di Genova nonché per la messa in sicurezza idraulica e l'adeguamento alle norme in materia di sicurezza dei luoghi di lavoro”;

2. condiviso ed adottato il Piano di attuazione del suddetto aggiornamento predisposto dall'Autorità di Sistema Portuale del Mar Ligure Occidentale;
3. preso atto e condiviso la proposta di modello organizzativo proposta dal Responsabile dell'attuazione del programma e condivisa dall'ADSP;

CONSIDERATO CHE con Decreto dell'AdSP n. 834 del 5 agosto 2020 è stato istituito il nucleo di supporto al Programma Straordinario collocato in staff al Presidente dell'AdSP conferendo ai due dirigenti in carico alla struttura la delega all'assunzione e finalizzazione di tutti gli atti occorrenti all'espletamento delle procedure relative all'affidamento di lavori, servizi e forniture necessari per l'esecuzione del Programma;

RILEVATO CHE con decreto dell'AdSP n. 1085 del 15/10/2020 è stata altresì costituita l'Unità Speciale Gare e Contratti Programma Straordinario operante in diretto coordinamento con il già istituito Staff Programma Straordinario disponendo una ripartizione di attività e deleghe fra i dirigenti dello Staff come ivi meglio indicato;

DATO ATTO che nell'aggiornamento del Programma Straordinario di investimenti urgenti per la ripresa e lo sviluppo del porto e delle relative infrastrutture di accessibilità e per il collegamento intermodale dell'aeroporto Cristoforo Colombo con la città di Genova nonché per la

messa in sicurezza idraulica e l'adeguamento alle norme in materia di sicurezza dei luoghi di lavoro è incluso il lavoro P.3062 "Nuova diga foranea di Genova";

VISTA la Delibera prot. n. 30/2/2021 del 29 giugno 2021 con la quale il Comitato di Gestione ha approvato un ulteriore aggiornamento del Programma Straordinario delle Opere redatto ai sensi dell'art. 9 bis della Legge n. 130/2018 nella quale il progetto P.3062 – prima fase- è previsto per un importo complessivo di 950 milioni di euro;

VISTO il Decreto n. 5 del 15 luglio 2021 con il quale il Commissario ha, tra l'altro:

1. approvato e adottato l'aggiornamento al "Programma straordinario di investimenti urgenti per la ripresa e lo sviluppo del porto e delle relative infrastrutture di accessibilità e per il collegamento intermodale dell'aeroporto Cristoforo Colombo con la città di Genova nonché per la messa in sicurezza idraulica e l'adeguamento alle norme in materia di sicurezza dei luoghi di lavoro" costituente l'Allegato 2 della Delibera del Comitato di Gestione di AdSP;
2. approvato e adottato l'aggiornamento del Piano procedurale predisposto dall'ADSP costituente l'Allegato 3 della citata Delibera;
3. nominato quale responsabile dell'attuazione del Programma Straordinario il Dott. Pasquale Umberto Benezzi, stabilendo che il compenso per la funzione ricoperta sia definito da AdSP così come le modalità di svolgimento dell'incarico;

PREMESSO CHE con Decreto del Presidente del Consiglio dei Ministri del 16 aprile 2021 la diga foranea del Porto di Genova - identificata con il codice unico di progetto CUP C39B18000060006 - è stata altresì individuata, ai sensi dell'articolo 4, del Decreto Legge 18 aprile 2019, n. 32, convertito con modificazioni dalla Legge 14 giugno 2019, n. 55, come intervento infrastrutturale caratterizzato da un elevato grado di complessità progettuale, da una particolare difficoltà esecutiva o attuativa, da complessità delle procedure tecnico - amministrative ovvero che comportano un rilevante impatto sul tessuto socio - economico a livello nazionale, regionale o locale; per la cui realizzazione si rende necessaria la nomina di un Commissario Straordinario;

PREMESSO INOLTRE CHE con il medesimo Decreto il Dott. Paolo Emilio Signorini, Presidente dell'Autorità di Sistema Portuale del Mar Ligure Occidentale, è stato nominato Commissario Straordinario per la realizzazione della diga Foranea;

PRESO ATTO del decreto n. 988 del 22/09/2020 con il quale l'Ing. Marco Vaccari è stato nominato quale Responsabile Unico del Procedimento del Progetto P.3062 e dei servizi propedeutici;

CONSIDERATA la necessità confermata dal RUP con relazione prot. n. 20095 del 02.07.2021 di conferire, ad un soggetto qualificato, per tutte le ragioni meglio dettagliate in relazione, l'incarico di coordinamento progettuale, controllo qualità, direzione lavori, coordinamento della sicurezza e supporto tecnico all'Autorità del Sistema Portuale del Mar Ligure

Occidentale nell'ambito dell'appalto per la realizzazione dell'intervento di cui alla perizia n. 3062;

VISTO il decreto n. 654 del 05/07/2021 con cui:

- è stata indetta una procedura negoziata ex art. 63 comma 2 lettera c) D.Lgs. 50/2016 con invito degli operatori individuati con verbale del RUP, prot. n. 20078 del 01/07/2021, per l'affidamento dell'appalto, suddiviso in fasi, avente ad oggetto l'incarico, coordinamento progettuale, controllo qualità, Direzione lavori, coordinamento della sicurezza e Supporto tecnico e gestionale (attività di project Management consultant - pmc) nell'ambito della Progettazione e dell'appalto dei lavori per la Realizzazione della nuova diga foranea del porto di Genova;
sono stati approvati gli atti della procedura di gara;
- è stata disposta la prenotazione di un impegno di spesa, riferito alla fase 1 del servizio in oggetto, pari a euro 92.204,38.- (oneri inclusi, se dovuti) a valere sul Capitolo U.5110 (00088 RICA VO VENDITA AREE EX COLISA) del bilancio dell'Autorità di Sistema con riserva di successiva riconduzione dell'importo al quadro economico del progetto n. 3062 una volta approvato;

DATO ATTO CHE si rende quindi necessario procedere alla nomina della Commissione Giudicatrice;

RILEVATO CHE in base al punto 4 del Piano Procedurale di cui al Decreto del Commissario Straordinario n° 1 del 28 febbraio 2020 la valutazione delle offerte tecniche ed economiche relative all'appalto in oggetto deve essere

affidata ad una Commissione Giudicatrice composta da tre membri, scelti fra funzionari esterni ad AdSP, appartenenti ad altre Amministrazioni, con qualificazione rapportata alla tipologia e caratteristica del contratto, in possesso dei requisiti di moralità, competenza e professionalità e/o fra professionisti idonei in possesso dei requisiti necessari all'espletamento degli incarichi facendo salva la possibilità di derogare alle norme relative alle modalità di affidamento degli incarichi;

PRESO ATTO CHE a tal fine il RUP, Ing. Marco Vaccari, ha effettuato una verifica rispetto alle professionalità necessarie ad assolvere il ruolo in oggetto individuando e proponendo per la commissione di cui si verte i seguenti membri: Prof. Giovanni Besio, cui attribuire le funzioni di Presidente, Prof. Maria Pia Repetto ed Ing. Eugenio Marogna quali membri, in quanto dai curricula trasmessi risulta che gli stessi posseggono qualificazione rapportata alla tipologia del contratto e posseggono i requisiti di moralità, competenza e professionalità tali da poter assumere l'incarico, come da apposite dichiarazioni dagli stessi rilasciate, conservate agli atti;

VISTI i curricula dei sopra citati soggetti, allegati al presente decreto per costituirne parte integrante e sostanziale;

RILEVATO CHE per la determinazione del compenso spettante per l'espletamento dell'incarico si è fatto espresso riferimento al Decreto M.I.T. del 12/02/2018, e che tenuto conto della natura dell'incarico e delle sottese necessità di urgenza e di celerità nell'espletamento delle funzioni attribuite è stato ritenuto congruo individuare l'importo complessivo di euro 26.145,00

(onnicomprensivi di spese) quale indennità per i membri della commissione giudicatrice;

VISTA la nota mail trasmessa all'Ufficio Programmazione Risorse (Prot. 16/07/2021.0021790.I) con la quale il Dirigente Marco Vaccari ha rappresentato la necessità di utilizzare parte dello stanziamento di competenza appostato al cap. U.5110 per sostenere l'onere di cui all'oggetto non previsto in sede di bilancio di previsione per un importo di euro 26.145,00 da ricondurre al QE della P.3062 alla prima occasione utile;

DATO ATTO CHE tale spesa trova copertura a valere sul Capitolo U.5110 (c 00088 RICA VO VENDITA AREE EX COLISA) del bilancio dell'Autorità di Sistema con riserva di successiva riconduzione dell'importo al quadro economico del progetto n. 3062 una volta approvato;

RICHIAMATO il Codice Unico di Progetto C39B18000060006 acquisito presso il comitato interministeriale per la programmazione economica e fatta riserva di acquisizione dei relativi CIC per i relativi pagamenti ai nominati commissari;

DECRETA

- di nominare, in relazione alla procedura negoziata per l'affidamento dell'appalto, una Commissione giudicatrice per la valutazione delle offerte tecniche ed economiche, così composta:

Prof. Giovanni Besio (Presidente);

Prof. Maria Pia Repetto (Membro);

Ing. Eugenio Marogna (Membro);

- di individuare in euro 26.145,00 (onnicomprensivi di spese) l'indennità massima per l'intera commissione giudicatrice - composta da dipendenti pubblici - prevedendo, in particolare, per ciascun membro della commissione, un esborso complessivo di euro 8.715,00, di cui euro 7.000,00 di imponibile, euro 1.120,00 per contributi I.N.P.S. ed euro 595,00 quale quota I.R.A.P. a carico di AdSP;
- di procedere all'impegno di spesa del servizio in oggetto pari alla somma complessiva di euro 26.145,00 (onnicomprensivi di spese) a valere sul Capitolo U.5110 (codice finanziamento 00088 Ricavo vendita aree ex Colisa) del bilancio dell'Autorità di Sistema con riserva di successiva riconduzione dell'importo al quadro economico del progetto n. 3062 una volta approvato, alle voci del QE C09 e C12;
- di disporre la pubblicazione del presente atto sul sito internet istituzionale dell'Autorità di Sistema Portuale del Mar Ligure Occidentale, in Amministrazione Trasparente - Sezione Bandi di Gara e Contratti - e sul sito del Commissario Straordinario per la Ricostruzione, e sul sito del Commissario Straordinario per la Diga del porto di Genova.

IL DIRIGENTE

(Dott. Ing. Marcos Montevocchi)



Genova, li 20/7/2021

PERSONAL INFORMATION

Giovanni Besio



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 giovanni.besio@unige.it
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 Skype: giospud
 LinkedIn - <https://www.linkedin.com/in/giovanni-besio-57a001a/>
 Sex Male | Date of birth 18/06/1976 | Nationality Italian

WORK EXPERIENCE

From February 2015 to Today

Associate Professor in Coastal and Harbour Engineering

Polytechnic School, University of Genoa, Italy, www.politecnica.unige.it

- Full Professor of "Maritime Engineering", "Coastal Structures" and "Harbour Engineering" for the Civil and Environmental Engineering degree (BSc and MSc careers)

Business or sector Research and education

From November 2005 to February 2015

Assistant Professor in Coastal Engineering

Polytechnic School, University of Genoa, Italy, www.politecnica.unige.it

- Full Professor of "Maritime Engineering", "Coastal Structures" and "Environmental Fluid Mechanics" for the Civil and Environmental Engineering degree (BSc and MSc careers)

Business or sector Research and education

From October 2004 to November 2005

Post Doc – Research Fellow

Centro Andaluz de Medio Ambiente (CEAM), Granada, Spain, <http://www.iista.es/>

- Junior Scientist in Coastal Engineering and Coastal Morphodynamics

Business or sector Research

From January 2004 to September 2004

Research Fellow

DIAM (now DICCA), University of Genoa, Italy

- Researcher in Environmental Fluid Mechanics

Business or sector Research

From January 2001 to December 2003

PhD Grant

DIAM (now DICCA), University of Genoa, Italy

- PhD in Environmental Fluid Mechanics

Business or sector Research

From December 1999 to May 2000

Junior Engineer

STI, Studio Tecnico di Ingegneria, Genova, Italy

- Junior Engineer for Civil and Hydraulic works

Business or sector Civil Engineering Consultancy

EDUCATION AND TRAINING

From January 2001 to December 2003

PhD in Environmental Fluid Mechanics

DIAM (now DICCA), University of Genoa, Italy

- Fluid Mechanics, Morphodynamics, Turbulence

Level 8



From September 1994 to
November 1999

MSc in Civil Engineering with Hydraulics
University of Genoa, Italy
• Civil Engineering, Fluvial and Coastal Hydraulics

Level 7

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Spanish	C1	C1	C1	C1	C1
French	B2	B1	A1	A2	A1

Communication skills Good communication skills developed either teaching different courses and giving talks at international conferences

Organisational / managerial skills Leadership and tutoring (PhD and Master students)

Job-related skills Innovation and development for basic research and applied research (knowledge transfer to industry)

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient	Proficient	Proficient	Proficient	Proficient

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

Skills in programming languages (Fortran, Matlab, Python, shell scripting), GIS tools (QGIS, Grass, ArcGIS)

Other skills Manual abilities for laboratory works (steel and wood carpentry, PVC and similar materials handling)

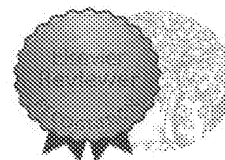
Driving licence A and B

ADDITIONAL INFORMATION

Referee Activity

Review Editor for Coastal and Offshore Engineering section of Frontiers in Built Environment
Review Editor for Coastal Ocean Processes section of Frontiers in Marine Science
Guest Associate Editor for Physical Oceanography section of Frontiers
Editorial Board Member for Journal of Marine Science and Engineering, MDPI

Advances in Water Resources
ANVUR – VQR 2010-2014
Applied Energy
Atmosphere
Coastal Engineering
Continental Shelf Research
Earth-Science Review
Earth Surface Processes and Landforms
Ecological Indicators
Energies
Energy
Engineering Applications of Artificial Intelligence
Environment International
Environment, Development and Sustainability
Environmental Modelling and Software
Engineering and Physical Sciences Research Council (EPSRC - UK)
Estuarine, Coastal and Shelf Science
European Journal of Mechanics B/Fluid
Frontiers in Marine Science
Future in Research (Regione Puglia)
Geophysical Research Letters
IAHR - International Association of Hydro-Environment Engineering and Research
International Journal of Marine Energy
Journal of Cleaner Production
Journal of Fluid Mechanics
Journal of Geophysical Research
Journal of Marine Science and Engineering
Journal of Waterway, Port, Coastal and Ocean Engineering
Meccanica
MIUR – PRIN Projects
National Science Foundation (NSF)
Natural Hazard and Earth System Science
Natural Resource Research
Ocean Dynamics
Ocean Engineering
Ocean Modelling
Physics of Fluids
Progress in Oceanography
Regional Environmental Change
Science of the Total Environment
Water Resources Research
Water



Affiliations

American Geophysical Union (AGU)
European Mechanic Society (EUROMECH)
Permanent International Association of Navigation Congresses (PIANC)
Associazione Ingegneria Offshore e Marina (AIOM)

Institutional Activities

- Member of the AquaClew Project (ERA-NET ERA4CS) External Expert Committee - 2020
- Member of the Committee for the draft of ROM1.1 guideline (Ministry of Development, Spain, 2018)
- Expert member for fluvial and coastal hydraulics in the Regional Technical Committee for the Environmental Management (Regione Liguria, 2014-2017)
- Committee Member for Public Works Tendering processes for Spezia and Genoa Harbour (Quay Walls Design, Marinas Design, Geomatic Surveys, Road Design Services)
- Technical Consultant for the Genoa Court (Harbour Planning and Safety, Coastal Structures Damages, 2016-2019)
- Technical Consultant for TAR Liguria (Coastal Zone Management, 2015)
- Technical Consultant for the Public Waters Court of Rome (River Engineering and Managing, 2007)
- Reference Person for Research Joint Program UniGe-Regione Liguria, 2016-ongoing
- Member of the PIANC-Universities working group, 2017-today
- Coordinator of the Curriculum in Engineering for Marine and Coastal Environments belonging to the PhD in Sea Science and Technology, University of Genoa, 2019-ongoing
- Member of the Committee for the PhD in Civil, Chemical and Environmental Engng, University of Genoa, 2005-2018
- Referee for the PhD Degrees:
- Geophysics, University of Auckland, New Zealand
 - Earth Science, University of Pisa, Italy
 - Department of Infrastructure Engineering, University of Melbourne, Australia
 - Ingeniería de los Fluidos Aplicada, Universidad de la Republica, Montevideo, Uruguay
 - Territorio, Infraestructuras y Medio Ambiente, Universidad de Castilla la Mancha, Spain
 - Civil Engineering, Universidad de Granada, Spain
 - Environmental and Building Risk and Development, Environmental and Natural Resources, Polytechnic of Bari
 - Civil and Environmental Engineering, University of Florence
 - Fenomeni e rischi ambientali, University Parthenope, Naples

Teaching Master and PhD Courses	2019	Classes on "Wave Modelling" for the IV International Summer School on Dynamics of Estuarine and Nearshore Systems, Granada, Spain
	2018	Classes on "Wave Energy Converter Design" for the International Workshop in "Offshore Renewable and Aquaculture" ESITC Caen, France
	2014, 2015	Classes on "Forecast models for ocean waves" for the "FORTEMARE – System Engineering for Maritime Technologies", DLTM, MIUR & Regione Liguria, and DITEN, University of Genoa, Italy
	2010/12/13/14	Classes on "Perturbation Methods" for the Doctorate in Fluid Mechanics and Environmental Processes, University of Genoa, Genoa, Italy
	June 2012	Classes on "Submarine Dunes" at the Summer School "Morphological instabilities in natural systems", Institut de Physique de Rennes, Université de Rennes 1, Rennes, France
	November 2011	Classes on "Hidrodinamica zona de rompientes" for the Curso Avanzado de Ingeniería de Costas y Puertos, Colegio de Ingenieros de Andalucía, Sevilla, Spain
	2009, 2017	Classes on "Harbour Engineering" for the Master in Marine Geomatics, II Ed., University of Genoa and Istituto Idrografico della Marina
	June 2009	Classes for the course "Fluid Mechanics" for the Doctorate in Fluid Mechanics and Environmental Processes, University of Genoa, Genoa, Italy
	2007/2008/2010	Classes on "Wave averaged models" for the course "Sea Waves" for the Doctorate in Water, Material and Earth Engineering for Environment, Polytechnic University of Marche, Ancona, Italy
	June 2007	Supervisor for the Summer School "Hydro and Morphodynamics of Coastal Seas", Motril, Spain. Organized by Utrecht University, Universidad de Granada and Università di Genova.
	Apr – May 2005	Classes on "Coastal Circulation" and "Analysis of Coastal Processes" within the master program "Sistemazione Idrogeologica e Riqualificazione Ambientale" organized by Regione Liguria.
	May 2004	Practical lessons for the course "Elementi di base dell'idraulica applicata allo studio dei corsi d'acqua" carried out for the La Spezia Province by the Department of Environmental Engineering, University of Genoa, Genoa, Italy

Teaching Degree Courses	A.A. 2018/19-20/21	Professor for "Renewable Energy Production", Environmental Engineering – University of Genoa
	A.A. 2016/17-20/21	Full professor for "Harbour Engineering", Civil Engineering – University of Genoa
	A.A. 2012/13-20/21	Full professor for "Coastal Engineering", Civil Engineering – University of Genoa
	A.A. 2012/13-17/18	Full professor for "Maritime Engineering", Civil Engineering – University of Genoa
	A.A. 2010/11-11/12	Full professor for "Environmental Hydraulics", Civil Engineering – University of Genoa
	A.A. 2011/12	Assistant professor for "Coastal Engineering", Civil Engineering – University of Genoa
	A.A. 2010/11	Assistant professor for "Coastal Engineering", Civil Engineering – University of Genoa
	A.A. 2009/10	Assistant professor for "Maritime Hydraulics", Civil Engineering – University of Genoa
	A.A. 2009/10	Assistant professor for "Hydraulics I", Civil Engineering – University of Genoa
	A.A. 2008/09	Assistant professor for "Port Engineering" and "Coastal Engineering", Civil Engineering – University of Genoa
	A.A. 2007/08, 06/07	Full professor for "Fluid Mechanics I", Mechanical Engineering – University of Genoa - Polo di La Spezia
	A.A. 01/02 – 08/09	Assistant professor for "Hydrodynamics I" for the Naval Architecture and Marine Engineering Degree - University of Genoa
Teaching PhD Students	2011-2015	Sonia Angiolani (actual position: high school teacher)
	2012-2016	Lorenzo Mentaschi (actual position: researcher at JRC ISPRA)
	2013 – 2017	Francesco Enrile (actual position: engineer at Acquadotti Loano)
	2016 – 2020	Francesco De Leo (actual position: postdoc at CalPoly)
	2018 – ongoing	Giulia Cremonini
	2019 – ongoing	Stefania Magri
	2019 – ongoing	Stefano Pastorino
Teaching Post Doc Students	2020 – ongoing	Manuel Corrales Gonzales
	2013-2015	Ludovica Sartini (actual position: Metocean division at RINA)
	2013-2015	Saeed Hariri (actual position: researcher at IFREMER - DYNECO)
	2018-2020	Francesco Enrile (actual position: engineer at Acquadotti Loano)
	2018 – ongoing	Francesco Ferrari
	2020 – ongoing	Andrea Lira Loarca
	2020 – ongoing	Mohamad Daliri
	2020 – ongoing	Alejandro Caceres

Invited Seminars	<i>"Wave Modeling in the Mediterranean Sea: hindcast, forecast and climate projection for engineering applications"</i> REMTECHExpo, Ferrara, Italy, September 2019 <i>"Wave modeling and its applications"</i> Universidad de La Republica, Montevideo, Uruguay, July 2018 <i>"Modellistica meteo-marina: lo stato dell'arte per il bacino del Mediterraneo"</i> Workshop La simulazione ambientale in ambito marino, ATENA, May 2017 <i>"Stima del potenziale energetico del moto ondoso all'interno del bacino del Mediterraneo"</i> Workshop Energia dal Mare, Onde e Correnti, ATENA, September 2016 <i>"Modellistica di reanalisi per la stima degli eventi estremi"</i> Studi di Aggiornamento sull'Ingegneria Off-Shore e Marina AIOM, Salerno, October 2016 <i>"Stima del potenziale energetico del moto ondoso all'interno del bacino del Mediterraneo"</i> ATENA Meeting, La Spezia, September 2016 <i>"Numerical Modelling for Environmental needs @ UniGe"</i> ARC Meeting, Toulon, France, April 2016 <i>"La modellistica previsionale del moto ondoso ai fini dell'ingegneria offshore e costiera"</i> Studi di Aggiornamento sull'Ingegneria Off-Shore e Marina AIOM, Palermo, November 2014 <i>"Sea-weather modeling and engineering applications"</i> CoastEsonda, Ferrara, September 2014 <i>"Operational high resolution meteo marine modelling over the Mediterranean area: tailoring WWII model for the Mediterranean basin and development of prompt coastal risk index"</i> DeSRAAP Workshop, NATO-CMRE, La Spezia, July 2014 <i>"Strutture Lagrangiane Coerenti e barriere al trasporto: applicazione al Golfo di Trieste"</i> Studi di Aggiornamento sull'Ingegneria Off-Shore e Marina AIOM, Bologna, November 2013 <i>"Lagrangian mixing and LCS as barrier to transport in compound channels"</i> CNR-ISMAR, U.O. Pozzuolo di Lerici (SP), Italy, January 2013 <i>"Wetlands, fragile ecosystems at risk. The case of Venice lagoon"</i> GCCRP, Griffith University, Queensland, Australia, November 2012 <i>"Wetlands, fragile ecosystems at risk. The case of Venice lagoon"</i> GCCRP, Southern Cross University, LismoreNew South Wales, Australia, November 2012 <i>"Lagrangian Coherent Structures as barrier to transport"</i> IH Cantabria, Universidad de Cantabria, Santander, Spain, November 2011 <i>"Modelli per l'analisi della qualità delle acque costiere e dei bacini"</i> Studi di Aggiornamento sull'Ingegneria Off-Shore e Marina AIOM, Lecce, Italy, July 2011 <i>"Tidal generated Sand Waves"</i> GIOC, Universidad de Cantabria, Santander, Spain, June 2005
Education	2004: PhD grant at the University of Genoa in the field "Fluidodynamics and Environmental Engineering Processes". PhD Thesis title: "Modelling of tidally generated large scale bedforms" 1999: 18/11/1999 <i>Laurea</i> - Master degree in Civil Engineering in Hydraulics at the University of Genoa. Thesis: <i>"River bifurcation stability: theoretical analysis and experimental observations"</i>. Score: 110 cum laude/110 1994: Classical high school degree at the C. Columbus Liceum, Genoa
Post Graduate Courses	November 2014: <i>"Time-frequency analysis: a glance beyond Fourier region"</i> Prof. L. Carassale - DICCA, Università di Genova. November 2009: <i>"Non-linear dynamical systems"</i> Prof. M. Storace - DIBE, University of Genoa. February 2009: <i>"Advanced numerical methods for hyperbolic equations and applications"</i> Prof. E. Toro. Organizzato dall'Università di Trento. October 2007: <i>"Communication Skills Training Workshop"</i> - Education Training Ltd (University of Edinburgh). Marie Curie EST Centre – DICAT Univ. of Genoa. July 2003: <i>"Hydro and Morphodynamics of coastal seas"</i> – Renesse, Netherlands. Organized by Utrecht University and Universitat Politècnica de Catalunya. Apr - Jun 2003: <i>"Problematiche della cooperazione internazionale e le progettualità applicabili"</i> organized by Ingegneria Senza Frontiere - Genova. October 2002: <i>"Water Waves for Engineers"</i> by Prof. M. Brocchini (University of Genoa) and Dr. M. Landrini (INSEAN). May 2002: <i>"Le tecnologie appropriate per la cooperazione e lo sviluppo sostenibile: il ruolo dell'università"</i> organized by CETAMB (Brescia). January 2000: <i>"La progettazione strutturale con gli Eurocodici"</i>.

Projects	2020	Development of a wave hazard index [for ARPAL Liguria]
	2020	Containers' drift in the Southern Pacific Ocean [for Longitude]
	2019	Extreme Values Analysis for waves in the deep ocean [for MMP]
	2019	Study of coastal circulation and coastal flooding for the Baia del Silenzio [for Comune di Sestri Levante]
	2017	Wave tank experiments for Absorbing Caissons [for RINA]
	2017	Morphodynamics of beach nourishment in Romania [Dinamica s.r.l.]
	2016	Wave climate and extreme events for La Spezia Gulf [Autorità Portuale di La Spezia]
	2015-2020	Wave climate hindcast and analysis in the Med Sea [for different Consultancies]
		Wave climate analysis in the Gulf Area [NMDC Abu-Dhabi]
		Wave climate analysis in the Seuz Channel [Longitude]
	March 2014	Fast ferry generated waves propagation to the coast [for Corsica Ferries]
	July 2013	Offshore Mar Ligure wave climate. [for Studio Legale Farina]
	June 2012	Physical modelling of Vernazzola (Ge) beach nourishment. [for Comune di Genova]
	March 2012	Negative buoyant jet modelling for FPSO. [for DEAM]
	February 2012	Implementation and validation of a wave forecast-hindcast model for the Western Mediterranean basin. [for ARPAL]
	April - July 2011	Physical modelling of possible asbenthos releases due to slurry dumping in the port of Genoa (Ge). [for S.P.E.A.]
	June 2010	Wave climate and coastal circulation analysis in Bagnoli-Coroglio area (Na). [for Typsa]
	January 2008 - November 2010	Tanaro river physical modelling (fixed and mobile bed) along Alessandria city reach. [for A.I.Po]
	March - December 2008	Flood propagation along Bormida and Orba rivers [for A.I.Po]
	December 2007	Analysis of littoral sediment transport along the coast in the proximity of Lerone outlet (Genoa). [for S.T.I.]
	July 2007	Hydraulic study of the last reach of Torrente Chiaravagna (Genoa). [for S.T.I.]
	March 2007	Final design of rubble mound breakwater of Savona Harbour. [for S.T.I.]
	February 2007	Wave climate for Ospedaletti (SV). [for Ing. Repetto]
	Jan – Sept 2006	Study of flood propagation in the Tanaro river focussed on the city of Alessandria. [for A.I.Po]
	Oct 2004 – Oct 2005	Study of erosion patterns at the offshore wind farm "Mar de Trafalgar". Evaluation of the "Mar de Trafalgar" offshore wind farm influence on longshore sediment transport. [for CEAMA - I.N.R. Eolica]
	January 2004	Analysis of littoral sediment transport along the coast in the proximity of Arenzano harbour (Genoa). [for S.T.I.]
	November 2003	Analysis of sediment transport of the Leiro river outlet (Genoa). [for S.T.I.]
	April 2003	Design of levees for the river Magra in the community of Ameglia (Spezia). [for S.T.I.]
	February 2003	Preliminary design of rubble mound breakwater for the enlargement of Savona's commercial harbour. [for S.T.I.]
	Dec 1999 - Jun 2000	Site preparation planning for power plants in Brasil (ABB Baden); drawing up of relative bills of quantities following CESSM3 rules; foundation design and steel structure check of the Manjung power plant, Malaysia, with Alstom, Velizy (Paris). Design of reinforced concrete retaining structures in Pieve Ligure (Genoa). Quality control for certification ISO 9001. [for S.T.I.]
Awards	July 2018:	Visiting Grant, IMFIA, Universidad de La Republica, Montevideo, Uruguay
	December 2014	Trasporti & Cultura Award (Sec. A) for the book "Ingegneria e Paesaggio. Un progetto per le valli e per le coste"
	October 2012:	GCCR visiting fellow, Griffith University, Australia
	September 2011:	Best Presentation Award, RCEM Conference, Beijing, China
	June 2004:	CARIGE grant for research activities

Research Funding

Title	Financed by	Period	Role
ISYPORT - Sistema integrato per la mitigazione dei rischi della navigazione in aree portuali	PON	2020-20200	P.I.
BE-READY - Rapid Environmental Assessment Decision sYstem	DG-ECHO	2020-2021	P.I.
SINAPSI - asSistenza alla Navigazione per l'Accesso ai Porti in Sicurezza	Interreg - Marittimo European Union	2019-2021	Collaborator
SINBAD – Sicurezza della navigazione da diporto	POR-FESR Liguria 2014-2020	2018-2020	P.I.
SICOMAR+ - Sistema transfrontaliero per la sicurezza in mare COntro i rischi della navigazione e per la salvaguardia dell'ambiente MARino	Interreg - Marittimo European Union	2018-2020	P.I.
GEREMIA - Gestione dei reflui per il miglioramento delle acque portuali	Interreg - Marittimo European Union	2018-2020	P.I.
SPLASHI – Stop alle plastiche in H2O!	Interreg - Marittimo European Union	2018-2020	P.I.
RISQ'EAU – Increasing flood resilience of Alcotra territories	Interreg – Alcotra European Union	2017-2019	Collaborator
MAREGOT - MANagement des Risques de l'Erosion cotière et actions de GOuvernance Transfrontalière	Interreg - Marittimo European Union	2017-2019	Collaborator
ICODEP - Impact of Changing fOreshore on flood DEfence Performance	Hydralab+ European Union	2016	Collaborator
Subgrid obstacle modeling in wave propagation	University of Genoa	2014	P.I.
Monitoring boat anchoring pressure on Posidonia oceanica meadows through satellite SAR imagery	ESA	2013	Collaborator
PO CRO FSE 2007/13	Regione Liguria	2013-2014	P.I.
AMSEDIS - Amplified Growth of Sediment Waves in the Irish Sea	EuroFleet European Union	2011	Collaborator
Studio dei processi Lagrangiani di mescolamento dovuti a strutture vorticosi di grande scala su acqua bassa	University of Genoa	2010	Coordinator
Effetto della presenza di Parchi Eolici offshore sulla morfodinamica costiera	MIUR, IT-ES Actions	2009	Collaborator
Strumenti per la valutazione della vulnerabilità delle aree costiere in relazione ai previsti cambiamenti climatici	MIUR	2008	Collaborator
Modellazione numerica di processi morfodinamici	MIUR	2007	Collaborator
Dinamica di forme di fondo di grande dimensioni e ampiezza finita	University of Genoa	2006	Collaborator
Cave sottomarine e ripascimenti: modellazione morfologica e applicazioni	MIUR	2005	Collaborator
MODITE - Modelli di trasporto per difesa del territorio	Fondazione CariVerona	2005	Collaborator
SANDPIT - Sand Transport and Morphology of Offshore Sand Mining Pits/Areas	European Union	2002-2005	Collaborator
HUMOR - Human interaction with large scale coastal morphological evolution	European Union	2001-2004	Collaborator
Modellazione matematica e fisica di processi di sedimentazione nella laguna di Venezia	Corifa	2004	Collaborator

ANNEXES

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55. Cremonini, G., De Leo, F., Stocchino, A. & Besio, G. 2021 On the selection of time-varying scenarios of wind and ocean waves: Methodologies and applications in the North Tyrrhenian Sea. *Ocean Modelling*, 163, 101819, <https://doi.org/10.1016/j.ocemod.2021.101819>.
54. De Leo, F., Besio, G., Briganti, R. & Vanem, E. 2021 Non-stationary extreme value analysis of sea states based on linear trends. Analysis of annual maxima series of significant wave height and peak period in the Mediterranean Sea. *Coastal Engineering*, 167, 103896, <https://doi.org/10.1016/j.coastaleng.2021.103896>.
53. Tesán Onrubia, J.A., Djaoudi, K., Borgogno, F., Canuto, S., Angeletti, B., Besio, G., Capello, M., Cutroneo, L., Stocchino, A., Mounier, S. & Lenoble, V. 2021 Quantification of Microplastics in North-Western Mediterranean Harbors: Seasonality and Biofilm-related Metallic Contaminants. *Journal of Marine Science and Engineering*, 9(3), 337, <https://doi.org/10.3390/jmse9030337>
52. Cutroneo, L., Ferretti, G., Barani, S., Scafidi, D., De Leo, F., Besio, G. & Capello, M. 2021 Near real-time monitoring of significant sea wave height through microseism recordings: Analysis of an exceptional sea-storm event. *Journal of Marine Science and Engineering*, 9(3), 319, <https://doi.org/10.3390/jmse9030319>
51. Canale, C., Barbaro, G., Foti, G., Petrucci, O., Besio, G. & Barillà, G.C. 2021 Bruzzano river mouth damage due to meteorological events. *International Journal of River Basin Management*, <https://doi.org/10.1080/15715124.2021.1901725>
50. Carchen, A., Gaggero, T., Besio, G., Mazzino, A. & Villa, D. 2021 A method for the probabilistic assessment of the on-board comfort on a passenger vessel route. *Ocean Engineering*, 225, <https://doi.org/10.1016/j.oceaneng.2021.108702>
49. Loarca, A.L., Cobos, M., Besio, G. & Baquerizo, A. 2021 Projected wave climate temporal variability due to climate change. *Stoch Environ Res Risk Assess.* <https://doi.org/10.1007/s00477-020-01946-2>
48. Rizza, U., Canepa, E., Miglietta, M.M., Passerini, G., Morichetti, M., Mancinelli, E., Virgili, S., Besio, G., De Leo, F. & Mazzino, A. 2021 Evaluation of drag coefficients under medicane conditions: Coupling waves, sea spray and surface friction. *Atmos. Res.* 247, <https://doi.org/10.1016/j.atmosres.2020.105207>
47. De Leo, F., Besio, G. & Mentaschi, L. 2020 Trends and variability of ocean waves under RCP8.5 emission scenario in the Mediterranean Sea. *Ocean Dynamics*, <https://doi.org/10.1007/s10236-020-01419-8>
46. Mentaschi, L., Vousedoukas, M., Montblanc, T.F., Kakoulaki, G., Voukouvalas, E., Besio, G. & Salamon, P. 2020 Assessment of global wave models on regular and unstructured grids using the Unresolved Obstacles Source Term. *Ocean Dynamics* 70, 1475–1483, <https://doi.org/10.1007/s10236-020-01410-3>

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45. Oprandi, A., Mucerino, L., De Leo, F., Bianchi, C.N., Morri, C., Azzola, A., Benelli, F., Besio, G., Ferrari, M., Montefalcone, M. 2020 Effects of a severe storm on seagrass meadows. *Science of the Total Environment*, 748, <https://doi.org/10.1016/j.scitotenv.2020.141373>
44. Enrile, F., Besio, G., Stocchino, A. 2020 Eulerian spectrum of finite-time Lyapunov exponents in compound channels. *Meccanica*, 55(9), 1821-1828, <https://doi.org/10.1007/s11012-020-01217-y>
43. Lavidas, G., De Leo, F., Besio, G. 2020 Blue growth development in the mediterranean sea: Quantifying the benefits of an integrated wave energy converter at genoa harbour. *Energies*, 13(6), 4201, <https://doi.org/10.3390/en13164201>
42. Saviano, S., De Leo, F., Besio, G., Zambianchi, E. & Uttieri, M. 2020 HF radar measurements of surface waves in the Gulf of Naples (Southeastern Tyrrhenian Sea): comparison with hindcast results at different scales. *Frontiers in Marine Science*, <https://doi.org/10.3389/fmars.2020.00492>
41. Mazzaretto, O., Lucero, F., Besio, G., & Cienfuegos, R. 2020 Perspectives for harnessing the energetic persistent high swells reaching the coast of Chile, *Renewable Energy*, 159, 494-505, <https://doi.org/10.1016/j.renene.2020.05.031>.
40. De Leo, F., Solari, S. & Besio, G. 2020 Extreme wave analysis based on atmospheric pattern classification: an application along the Italian coast, *Nat. Hazards Earth Syst. Sci.*, 20, 1233-1246, <https://doi.org/10.5194/nhess-20-1233-2020>
39. De Leo, F., De Leo, A., Besio, G. & Briganti, R. 2020 Detection and quantification of trends in time series of significant wave heights: An application in the Mediterranean Sea. *Ocean Engineering*, 202, 107155, doi.org/10.1016/j.oceaneng.2020.107155.
38. Cutroneo, L., Reboa, A., Besio, G. et al. 2020 Microplastics in seawater: sampling strategies, laboratory methodologies, and identification techniques applied to port environment, *Environmental Science and Pollution Research*. doi.org/10.1007/s11356-020-07783-8
37. Ferrari, F., Besio, G., Cassola, F. & Mazzino, A. 2020 Optimized wind and wave energy resource assessment and offshore exploitability in the Mediterranean Sea. *Energy*, 190, 116447, doi.org/10.1016/j.energy.2019.116447
36. Stocchino, A., De Leo, F. & Besio, G. 2019 Sea waves transport of inertial micro-plastics: mathematical model and applications. *Journal of Marine Science and Engineering*, 7(1), 467
35. Putzu, S., Enrile, F., Besio, G., Cucco, A., Cutroneo, L., Capello, M. & Stocchino, A. 2019 A reasoned comparison between two hydrodynamic models: Delft3d-Flow and ROMS (Regional Oceanic Modelling System). *Journal of Marine Science and Engineering*, 7(1), 464
34. Enrile F., Besio G., Stocchino A., Magaldi M.G. 2019 Influence of initial conditions on absolute and relative dispersion in semi-enclosed basins. *PLOS ONE* 14(7): e0217073, [doi:10.1371/journal.pone.0217073](https://doi.org/10.1371/journal.pone.0217073)
33. Lo Re, C., Manno, G. Ciralo, G. & Besio, G. 2019 Wave Energy Assessment around the Aegadian Islands (Sicily). *Energies*, 12, 333, [doi:10.3390/en12030333](https://doi.org/10.3390/en12030333)
32. De Leo, F., Besio, G., Zolezzi, G. & Bezzi, M. 2019 Coastal Vulnerability assessment: through regional to local downscaling of wave characteristics along the Bay of Lalzit (Albania). *Natural Hazards and Earth System Science*, 19, pp. 287-298, doi.org/10.5194/nhess-19-287-2019
31. Mentaschi, L., Voudoukas, M., Besio, G. & Feyen, L. 2019 alphaBetaLab: Automatic estimation of subscale transparencies for the Unresolved Obstacles Source Term in ocean wave modelling. *SoftwareX*, 9, pp. 1-6, [doi:10.1016/j.softx.2018.11.006](https://doi.org/10.1016/j.softx.2018.11.006)

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30. Mucerino, L., Albarella, M., Carpi, L., Besio, G., Benedetti, A., Corradi, N. Firpo, M. & Ferrari, M. 2019 Coastal Exposure on Bonassola bay. *Ocean and Coastal Management*, 167, pp. 20-31, doi:10.1016/j.ocecoaman.2018.09.015
29. Ferretti, G., Barani, S., Scafidi, D., Capello, M., Cutroneo, L., Vagge, G., Besio, G. 2018. Near real-time monitoring of significant sea wave height through microseism recordings: an application in the Liguria Sea (Italy). *Ocean and Coastal Management*, 165, pp. 185-194, doi:10.1016/j.ocecoaman.2018.08.023
28. Enrile, F., Besio, G., Stocchino, A., Magaldi, M.G., Mantovani, C., Cosoli, S., Gerin, R. & Poulain, P.M. 2018. Evaluation of surface Lagrangian transport barriers in the Gulf of Trieste. *Continental Shelf Research*, 167, pp. 125-138, doi:10.1016/j.csr.2018.04.016
27. Mentaschi, L., Kakoulaki, G., Vousdoukas, M., Voukouvalas, E., Feyen, L. & Besio G. 2018. Parametrizing unresolved obstacles with source terms in wave modeling: a real-world application. *Ocean Modelling*, 126, pp. 77-84, doi:10.1016/j.ocemod.2018.04.003
26. Bozzi, S., Besio, G. & Passoni, G. 2018. Wave power technologies for the Mediterranean offshore: Scaling and performance analysis. *Coastal Engineering*, 136, pp. 130-146, doi:10.1016/j.coastaleng.2018.03.001
25. Enrile, F., Besio, G. & Stocchino, A. 2018. Shear and Shearless Lagrangian Structures in compound channels. *Advances in Water Resources*, 113, pp. 141-154, doi:10.1016/j.advwatres.2018.01.006
24. Pepe, F., Corradino, M., Parrino, N., Besio, G., Lo Presti, V., Renda, P., Calcagnile, L., Quarta, G., Sulli, A., & Antonioli, F. 2018. Boulder coastal deposits at Favignana Island rocky coast (Sicily, Italy): Litho-structural and hydrodynamic control. *Geomorphology*, 303, pp. 191-209, doi:10.1016/j.geomorph.2017.11.017
23. Sartini, L., Besio, G. & Cassola, F. 2017. Spatio-temporal modelling of extreme wave heights in the Mediterranean Sea. *Ocean Modeling*, 117, pp. 52-69, doi:10.1016/j.ocemod.2017.07.001
22. Masina, M., Archetti, R., Besio, G. & Lamberti, A. 2017. Tsunami taxonomy and detection from recent Mediterranean tide gauge data. *Coastal Engineering*, 127, pp. 145-169, doi:10.1016/j.coastaleng.2017.06.007
21. Besio, G., Briganti, R., Romano, A., Mentaschi, L. & De Girolamo, P. 2017. Time clustering of wave storms in the Mediterranean Sea. *Natural Hazards and Earth System Science*, 17, pp. 505-514, doi:10.5194/nhess-17-505-2017
20. Mentaschi, L., Vousdoukas, M., Voukouvalas, E., Sartini, L., Feyen, L., Besio, G. & Alfieri, L. 2016. The transformed-stationary approach: a generic and simplified methodology for non-stationary extreme value analysis. *Hydrology and Earth System Sciences*, 20, pp. 3527-3547, doi:10.5194/hess-20-3527-2016
19. Besio G., Mentaschi L. & Mazzino A., 2016. Wave energy resource assessment in the Mediterranean Sea on the basis of a 35-year hindcast. *Energy*, 94, pp. 50-63, doi:10.1016/j.energy.2015.10.044
18. Sartini L., Cassola F. & Besio G., 2015. Extreme waves seasonality analysis: an application in the Mediterranean Sea. *Journal of Geophysical Research – Oceans*, 120, pp. 6266-6288, doi: 10.1002/2015JC011061
17. Mentaschi L., Perez J., Besio G., Mendez F. & Menendez M. 2015. Parameterization of unresolved obstacles in wave modeling: a source term approach. *Ocean Modelling*, 96, pp. 93-102, doi:10.1016/j.ocemod.2015.05.004
16. Mentaschi L., Besio G., Cassola F. & Mazzino A., 2015. Performance evaluation of WavewatchIII in the Mediterranean Sea. *Ocean Modelling*, 90, pp. 82-94, doi:10.1016/j.ocemod.2015.04.003

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 1. Blondeaux P., Besio G., Frisina P., Brocchini M., Vittori G., 2001. Sand waves. Part 6: a simple model of tidally-generated sand waves, Internal Report, N. 1/01/CED DIAM, University of Genoa.

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

Name	EUGENIO MAROGNA
Address	80, VIA VOLTURNO, CIGNI BLDG, 20861, BRUGHERIO, IT
Telephone	+39 335 81 00 367
Fax	
E-mail	eugenio.marogna@emcons.biz
Nationality	Italian
Date of birth	2,9,1953

WORK EXPERIENCE

- | | |
|--|--|
| • Dates (from – to) | 2021 - current |
| • Name and address of employer | Università di Urbino Carlo Bo. |
| • Type of business or sector | University |
| • Occupation or position held | Contract Professor |
| • Main activities and responsibilities | Teaching Project Management and Project Work at – "Corso Integrativo di Alta formazione manageriale per la direzione di Azienda Sanitaria/Ospedaliera, a.a. 2019/2020" |
| • Dates (from – to) | 2021 - current |
| • Name and address of employer | EM Consulting 80, Via Volturmo, Cigni bldg, 20861, Brugherio, IT |
| • Type of business or sector | Consulting |
| • Occupation or position held | Advisor |
| • Main activities and responsibilities | Advisor to the CEO of Montran Corporation (US) |
| • Dates (from – to) | 2020 |
| • Name and address of employer | MSM -. Maastricht School of Management |
| • Type of business or sector | Education |
| • Occupation or position held | Invited Lecturer |
| • Main activities and responsibilities | Lecturer at Project Design Tools Course |
| • Dates (from – to) | 2018 - 2019 |
| • Name and address of employer | EM Consulting 80, Via Volturmo, Cigni bldg, 20861, Brugherio, IT |
| • Type of business or sector | Advisory in Project Auditing |
| • Occupation or position held | Senior Consultant |
| • Main activities and responsibilities | Consulting NEXI S.p.A. (Milan, IT) in auditing practices of business and IT projects, carried out by the company |
| • Dates (from – to) | 2019 - current |
| • Name and address of employer | EM Consulting 80, Via Volturmo, Cigni bldg, 20861, Brugherio, IT |

• Type of business or sector • Occupation or position held • Main activities and responsibilities	Advisory in Company Organization Senior Consultant Successful implementation of certified Quality Management System (ISO 9001) and Information Security Management System (ISO 27001) for Montran Corp. mother company in US and subsidiary in Romania
• Dates (from – to) • Name and address of employer • Type of business or sector • Occupation or position held • Main activities and responsibilities	2018 - 2018 EM Consulting 80, Via Volturmo, Cigni bldg, 20861, Brugherio, IT Project Consultant for the implementation of a Business Continuity Management System Senior Consultant Consulting and providing support to Montran Corporation (US) to implement the BCMS for the Corporation located in NY and for the US Office, located in NJ.
• Dates (from – to) • Name and address of employer • Type of business or sector • Occupation or position held • Main activities and responsibilities	2017 - 2018 EM Consulting 80, Via Volturmo, Cigni bldg, 20861, Brugherio, IT Advisory in Company organization Senior Consultant Advisor of Project Management practices and standards, Company Organization, for Polistudio S.r.L. – Riccione, Italy.
• Dates (from – to) • Name and address of employer • Type of business or sector • Occupation or position held • Main activities and responsibilities	2016 - current Università degli Studi di Urbino "Carlo Bo" Education and training (University) Visiting Professor Summer School in Project Management Years 2016 thru 2019 Invited professor at postgraduate <i>Master</i> course in Economics
• Dates (from – to) • Name and address of employer • Type of business or sector • Occupation or position held • Main activities and responsibilities	2009 - 2014 EM Consulting Management and ICT consultancy <i>Senior Partner</i> Deputy Project Director in the MIPS (Maldives Interoperable Payment System) project at the Maldives Monetary Authority, for the implementation of the interbank network, RTGS, ACH, interbank national switch and a mobile based electronic payment system. Advisor in the RTGS implementation project for the National Bank of Ethiopia. The project was funded by the World Bank Project manager of the implementation project of the Business Continuity Management System for the National Bank of Georgia (GE)
	International consultant and tutor in ○ International project management ○ ICT Operations management ○ Project Audit ○ ICT Contract management
• Dates (from – to) • Name and address of employer • Type of business or sector • Occupation or position held • Main activities and responsibilities	2007 - current Project Management Platform - SDA Bocconi School of Management, Milano IT Education and training (Business School) External Collaborator Teacher ○ Project management ○ Project Organization and Control ○ Contract definition and management ○ Project Audit ○ Quality Management Systems (ISO 9001 and related standards)

- Dates (from – to) 2008 - 2009
 - Name and address of employer SIA-SSB, 14, Via Luigi Giuseppe Faravelli, 20149, Milano, IT
Currently: SIA, 36, Via Gonin, 20147, Milano, IT
 - Type of business or sector Banking and finance ICT service provider
 - Occupation or position held Director
 - Main activities and responsibilities Manager of RTGS International Projects within the Payment Systems dept.
RTGS implementation projects for the Central Bank of Sweden and the Central Bank of Norway
-
- Dates (from – to) 2007 – 2008
 - Name and address of employer SIA-SSB, 14, Via Luigi Giuseppe Faravelli, 20149, Milano, IT
 - Type of business or sector Banking and finance ICT service provider
 - Occupation or position held Director
 - Main activities and responsibilities Implemented and Managed the Program Management Office.
-
- Dates (from – to) 2004 – 2006
 - Name and address of employer SIA (SIA-SSB starting 2007), 26, Via Taramelli, 20124, Milano, IT
 - Type of business or sector Banking and finance ICT service provider
 - Occupation or position held Director
 - Main activities and responsibilities Director of international projects for the SIA Group.
 - Project director of large international projects:
 - EU Phare project Interbank Payment System in Romania, the National Romanian Central Bank being the final beneficiary (2004 – 2005). The main target of the project was to implement and deliver in production the interbank network facility, the Real Time Gross Settlement System, the Automated Clearing House System and the Government Securities Registration and Settlement System, together with support services, such as training, security consultancy, and disaster recovery plan.
 - EU Phare project Information System Broker (ISB) in Prague (Czech Republic), the Ministry of Finance being the final beneficiary (2006). The main target of the project was to implement the main core of the market surveillance system for the Ministry of Finance in the Czech Republic
-
- Dates (from – to) 2003 - 2007
 - Name and address of employer Università Commerciale Luigi Bocconi, Milan IT
 - Type of business or sector University
 - Occupation or position held Contract Professor
 - Main activities and responsibilities Professor
 - Company Information Systems
 - Company organization
-
- Dates (from – to) 2001 - 2004
 - Name and address of employer SIA (SIA-SSB starting 2007)
 - Type of business or sector Banking and finance ICT service provider
 - Occupation or position held Director
 - Main activities and responsibilities Director of Organization and Company Information systems.
Main achievements:
 - implementation of the Enterprise Resource Planning system based on Oracle Applications
 - implementation of integrated Help Desk Information System based on "Service Desk System" from Computer Associates
 - implementation of the company wide system for project planning and control
 - implementation of the sales support system for sales forecast management and monitor
 - implementation of the corporate reporting system, based on Business Objects
 - implementation of the corporate budget and control system, based on Hyperion tools
 - implementation of the corporate intranet

• Dates (from – to) • Name and address of employer • Type of business or sector • Occupation or position held • Main activities and responsibilities	2001 - 2004 Industrial Design - Politecnico, Milan IT University Contract Professor Professor ○ ICT application and usage in Industrial Design ○ Ergonomics and User Centred Design ○ Master's in industrial design (2002 and 2003 editions)
• Dates (from – to) • Name and address of employer • Type of business or sector • Occupation or position held • Main activities and responsibilities	1999-2001 SIA (SIA-SSB starting 2007) Banking and finance ICT service provider Director Director of Organization, Quality and Security Department at SIA – Cedborsa SpA Main assignments and achievements: • Reengineering of the architecture of all company process, implementing the Management System of SIA, integrating quality assurance and security management. The system is certified by Det Norske Veritas compliant to ISO 9001:2000, also under the Tick- IT schema (for quality), and to ISO 27001 (formerly BS7799:part2). SIA has been the very first Italian company to achieve compliance certificate to BS7799:part2. • Deployment of the management system over all the company departments. • Coordination of the quality audit activities in the SIA Group.
• Dates (from – to) • Name and address of employer • Type of business or sector • Occupation or position held • Main activities and responsibilities	1992-1999 CedBorsa, (SIA starting 1999, SIA-SSB starting 2007) Italian Stock Exchange ICT service provider Head of Operations Area IT operations manager. Manager of the operations and delivery for Italian Stock Exchange electronic trading systems (stocks, derivatives and bond markets) and Pre-settlement system on behalf of The Bank of Italy. Project manager of the design and implementation project of the Business Continuity system for the company.
• Dates (from – to) • Name and address of employer • Type of business or sector • Occupation or position held • Main activities and responsibilities	1989 -1992 Medit S.p.A. System Integrator Technical Director Director of IT Department. • System designer of the complete Wind Gallery acquisition system for Ferrari Racing Team • Project Manager of the Wind Gallery acquisition system for Ferrari Auto • Project Manager of the Integrated Time Metering System for Autodromo di Monza.
• Dates (from – to) • Name and address of employer • Type of business or sector • Occupation or position held • Main activities and responsibilities	1980 – 1989 Digital Equipment Corporation Computer system builder Senior Consultant Main achievements in the 9 years working at Digital were important consultancies and project management activities such as: • 1984 – System Architect and Project Manager of the Automated system for management and control of the production warehouse of IRE/ PHILIPS fridge factory

- 1986 – Co-designer of the Fast Data System Acquisition for Formula 1 wind gallery of Ferrari Gestione Sportiva (Maranello – IT)
- 1987 – Project Manager of the Factory Automation System for the New Automated Factory of washing machines – Zanussi- Electrolux (Porcia-PN), still today being one of the largest projects in Computer Integrated Manufacturing developed in Europe.

• Dates (from – to)	1979 – 1980
• Name and address of employer	Xerox
• Type of business or sector	Computer and office automation system builder
• Occupation or position held	Designer and solution architect

• Dates (from – to)	1978 - 1979
• Name and address of employer	ENI
• Type of business or sector	Oil and gas, energy
• Occupation or position held	Researcher

EDUCATION AND TRAINING

• Dates (from – to)	1972 - 1977
• Name and type of organisation providing education and training	Università degli Studi di Bologna
• Principal subjects/occupational skills covered	Physics
• Title of qualification awarded	Master's degree
• Level in national classification (if appropriate)	Laurea Magistrale

**PERSONAL SKILLS
AND COMPETENCES**

*Acquired in the course of life and career
but not necessarily covered by formal
certificates and diplomas.*

MOTHER TONGUE

OTHER LANGUAGES

- Reading skills
- Writing skills
- Verbal skills

**SOCIAL SKILLS
AND COMPETENCES**

*Living and working with other people, in
multicultural environments, in positions
where communication is important and
situations where teamwork is essential
(for example culture and sports), etc.*

**ORGANISATIONAL SKILLS
AND COMPETENCES**

*Coordination and administration of
people, projects and budgets; at work, in
voluntary work (for example culture and
sports) and at home, etc.*

**TECHNICAL SKILLS
AND COMPETENCES**

*With computers, specific kinds of
equipment, machinery, etc.*

**ARTISTIC SKILLS
AND COMPETENCES**

Music, writing, design, etc.

**OTHER SKILLS
AND COMPETENCES**
Competences not mentioned above.

- Manager of International projects
- Corporate governance and internal audit
- IT governance (according to ITIL and Cobit)
- PRINCE2, PMI

ITALIAN

ENGLISH

excellent
good
good

- Invited as guest speaker by several institutions and associations. Some samples follow:
 - AIEA (Italian ISACA Chapter) 2000, 2002, 2003
 - IDC - Infosecurity (Milan) 2002
 - APB conference (Stresa) 2002
 - Bucharest Business Week – International Finance Conference, Bucharest, 2004
 - COMEUS (European Banking and Financial Forum, Prague) 2006
 - International Conference of Clearing Institutions in Central and Eastern Europe, Bucharest, 2006
- Attendee at the working groups of the Italian Bankers Association (co-authoring a manual for contracting with Information Technology, to support Purchase Departments in Italian banks), and on the Quality committees of major financial institutions including Italian Stock Exchange, MTS SpA and Bank of Italy.
- Over 35 years of experience in IT and System Integration project management
- Experience in IT operations management and IT governance
- Experience as Project Director / Program Manager in leading complex projects (also public funded, e.g. E.U. funded and World Bank funded)
- Experience in structured management methods, both in Service Delivery and in Project Management
- Business process engineering, Quality and Security systems development and implementation
- Business Continuity and Disaster Recovery
- Microsoft Office, Open Office
- Microsoft Project, Primavera project management tools
- Microsoft Windows, Linux (several *dialects*)
- High availability and mission critical system design

PLAYS GUITAR

Articles:

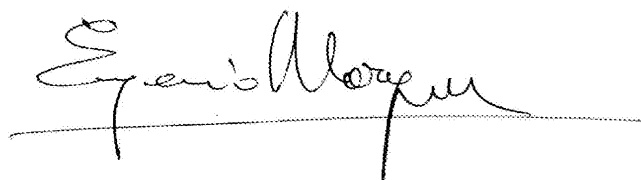
"Un modello per la comprensione dell'andamento dei progetti", (Economia & Management, numero 2, 2010)

Chapters in Books:

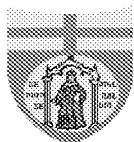
"Project Based Enterprise – Pensare e agire per progetti" (A. Biffi et alii, EGEA 2010)

DRIVING LICENCE(S) Car driving licence

ANNEXES NONE

A handwritten signature in black ink, appearing to read 'Eugenio Marogna', is written over a horizontal dotted line.

I agree to the processing of my personal data in the CV pursuant to Italian Legislative Decree 2018/101 and the GDPR (EU Regulation 2016/679).



UNIVERSITA' DEGLI STUDI DI GENOVA - FACOLTA' DI INGEGNERIA

DICCA

Dipartimento di Ingegneria Civile, Chimica e Ambientale

16145 GENOVA - Via Montallegro, 1 - Tel. 39 - 010 3532491 - Fax 39 - 010 35325481

CURRICULUM VITAE

PERSONAL DATA

Name Maria Pia Repetto
 Nationality Italian
 Birth date 21/09/1972
 Address: Via Montallegro 1, 16145 Genova - Italy
 Email: repetto@dicca.unige.it
 Mob: +39. 347.1763758
 Tel: +39 010 353 2121



CURRENT ACADEMIC POSITION

Qualification/Title	Full Professor
University	Università degli Studi di Genova
Department	DICCA-Dep. of Civil, Chemical and Environmental Engineering
Academic Discipline	Structural Engineering

EDUCATION AND TRAINING

2003 PhD degree in Structural and Geotechnical Engineering, Università degli Studi di Genova

 1998 Master of Science's degree summa cum laude in Civil Engineering (Structural Section),
 Università degli Studi di Genova

SCIENTIFIC ACTIVITY

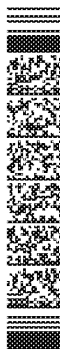
Research interests

The scientific activity of Maria Pia Repetto has been addressed to wind engineering problems. Research lines mainly involves the analysis of wind-induced actions, response and fatigue of structures, adopting analytical and probabilistic approaches to derive closed-form solutions at engineering level. More recent lines involve multidisciplinary problems related to the risk assessment of port infrastructures under wind actions, the wind fields modelling in urban environment, the analysis of thunderstorm wind flow and structural response, the study of vertical axis wind turbines.

Scientific publications

Maria Pia Repetto is author or co-author of 125 scientific publications which include: 38 papers published in peer-refereed international journals (ISI and Scopus listed, see Annex I), 1 paper published in national journals, 1 chapter in a book of international relevance, 2 international monograph, 44 papers presented and included in the Proceedings of International Conferences, 20 papers presented and included in the Proceedings of Italian Conferences, 1 PhD Thesis, 17 Internal reports.

Her scientific papers have been cited 1141 times and the corresponding h-index is equal to 21 (based on Scopus database, January 2021).



Prizes and awards for scientific activities

Raymond C. Reese Research Prize 2014 from American Society of Civil Engineer (ASCE-SEI), "For the paper, "Closed-Form Prediction of the Alongwind-Induced Fatigue of Structures," as published in the September 2012 issue of Journal of Structural Engineering; the award was presented during the Awards Luncheon ceremony of the Structures Congress 2014 in Boston, MA, USA– April 2014

IAWE Junior Award 2011 from International Association for Wind Engineering (IAWE) for outstanding achievements and original contributions to wind engineering research; the award was presented during the ceremony of the 13th International Conference on Wind Engineering in Amsterdam, The Netherlands– July 2011

Special mention ANIV Award 2008 from Italian Association of Wind Engineering (ANIV) for distinguishing paper: Bimodal alongwind fatigue of structures, Journal of Structural Engineering, ASCE, 2006

Coordination and management of a research group

Supervisor of 7 PhD students of the Program in Civil, Chemical and Environmental Engineering at the University of Genoa, Curriculum "Structures, materials and geotechnics":

- (a) Alessio Torrielli, XXII cycle, "Simulation of long term and safety analysis of structures subjected to wind action"; dr. Torrielli is actually Advisory Engineer at Siemens Gamesa Renewable Energy, Denmark;
- (b) Alessio Ricci, XXVII cycle, "Wind flow modeling in urban areas through experimental and numerical technique"; Double Doctoral Degree Program in Structural and Geotechnical Engineering, University of Genoa and Science and Technology for Engineering, Eindhoven University of Technology, The Netherlands (TU/e supervisor Prof. Bert Blocken);
- (c) Alberto Balbi, XXXI cycle; "Seaport Resilience: a framework to measure port resilience against weather natural hazard";
- (d) Michela Damele, XXXII cycle, "General Method of Wind-Induced Fatigue Analysis of Slender Structures";
- (e) Andrea Orlando, XXXIII cycle, "Full-scale monitoring of the wind excited response of slender structures, with fixed and rotating masses";
- (f) Mekdes Tadesse Mengistu, XXXV cycle, "Dynamic analysis of vertical slender structures to thunderstorm winds";
- (g) Simone Varni, XXXVI cycle, "Fatigue of steel bridges". Industrial PhD Program in collaboration with Seteco Engineering S.p.A.

Supervisor of 1 PhD students of the Program in Civil, Chemical and Environmental Engineering at the University of Genoa, Curriculum "Wind science and Engineering", funded by Liguria Region, in collaboration with Research & Consultant CETENA S.p.A., VTE-PSA S.p.A, Mooring Company of Genoa Port, Liguria District of Marine Technology DLTM:

- (a) Stefano Torre, XXXIV cycle, "Safe management of mooring systems for large ships under strong wind conditions"

Scientific responsible and supervisor of 4 Post-Doctoral researchers at the University of Genoa:

- (a) dr. Patrizia De Gaetano, research fellow in " Models and measures of wind and sea waves for the safety of port areas" (2011-2013); dr. De Gaetano is actually employed as marine modeling expert at the Liguria Regional Agency for Environmental Protection (ARPAL);
- (b) dr. Marco Tizzi, research fellow in " Wind velocity power spectral density function analysis and models " (2013-2014); dr. Tizzi is actually meteorologist at the Liguria Regional Agency for Environmental Protection (ARPAL);

(c) dr. Marina Pizzo, research fellow in “Models and forecast of wind velocity in ports and coastal areas” (2012-2013); “Numerical modeling of wind fields and wind/waves interaction” (2014-2015); dr. Pizzo is actually employed at the Liguria Region Research agency (Liguria Ricerche S.p.A);
(d) dr. Li Xiao, research fellow in “Experimental study and structural monitoring of poles and towers subjected to thunderstorm wind” (2020-present).

Scientific responsible and supervisor of 2 research scholarships at the University of Genoa:

(a) dr. Alessio Ricci “CFD simulation of wind flow in urban and port areas” (2015);

(b) dr. Andrea Orlando, “Hot-spot models of structural details for fatigue analysis of vertical axis wind turbine” (2017).

Coordinator of the collaborative research activity with the Dep. of the Built Environment – Building Physics and Services of the Eindhoven University of Technology (The Netherlands) on “wind flow modelling in urban areas adopting numerical and experimental tools”. Attached a letter of reference from Prof. Bert Blocken (TU/e) (Annex B) – from 2013 to 2018

Participation in research groups activity

Member of the Wind Engineering and Structural Dynamics Research Group (WinDyn) of University of Genoa, working in the multidisciplinary field of interactions between wind and structures (<http://windyn.dicca.unige.it/>). Maria Pia has been participating to the experimental numerical and analytical research activities related to wind engineering, contributing actively to many national and international research projects, with management and administrative roles. Details on the more relevant projects are given below – from 1999 to date

Member of the Research Group of the ERC-THUNDERR (2017-2021) and responsible of the phasing-out (2020-2021) project "Detection, simulation, modelling and loading of thunderstorm outflows to design wind-safer and cost-efficient structures" financed by European Research Council (ERC), Advanced Grant 2016 (code 741273, P.I. Prof. G. Solari, University of Genoa) (2017-2021). The project involves multidisciplinary research activities in the fields of construction technique and atmospheric physics, with relevant international collaborations– from September 2017 to October 2021

Member of the Research Group of the project “Wind monitoring, simulation and forecasting for the smart management and safety of port, urban and territorial systems” (2016-2018), funded by Compagnia di San Paolo. The project has two general objectives: i) strengthening the wind monitoring network for the safe management of the ports of the High Tyrrhenian Sea; ii) generalizing the wind monitoring, simulation and forecasting tools to complex urban and territorial systems – from July 2016 to June 2018

Member of the Advisory Board of 2 European Projects financed by the European Territorial Cooperation Objective, Cross-border program “Italy-France Maritime 2007-2013”:

(a) “Wind and Ports: the forecast of wind for the management and the safety of port areas” (from July 2009 to June 2012);

(b) “Wind Ports and Sea: Monitoring and forecasting of weather and sea conditions for safe access to port areas” (from June 2013 to July 2016).

The two projects involved a joint co-operation between the main commercial seaports authorities in the High Tyrrhenian Sea and the University of Genova, realizing an integrated system including a wide in situ monitoring network, numerical codes for the multi-scale simulation of wind and wave fields, wind and wave forecasting algorithms, statistical analyses and wind climatological mapping. All these results are made directly available in continuous mode to the port operators through a web-based GIS platform – from 2009 to 2016

Coordinator of the collaborative research activity with the Dep. of the Built Environment – Building Physics and Services of the Eindhoven University of Technology (The Netherlands) on “wind flow modelling in urban areas adopting numerical and experimental tools”. – from 2013 to date

Member of the Research Group of 4 PRIN projects financed by the Italian Ministry of University and Research (National P.I. Prof. Fabrizio Vestroni, University of Rome “La Sapienza”, Local Coordinator Prof. Giovanni Solari):

(a) PRIN 1999: “Dynamic response of flexible structures under natural and artificial actions”;

(b) PRIN 2001: “Dynamic behavior of structures: analytical and experimental studies”;

(c) PRIN 2009: “Dynamic behavior of linear and non-linear structures: modelling, experimentation and identification analyses”;

(d) PRIN 2015 “Measurement and representation of wind actions and effects on structures”

- from 2000 to date

Member of the Research Group of PRIN project financed by the Italian Ministry of University and Research (National P.I. Prof. Giorgio Diana, Milan Polytechnic, Local Coordinator Prof. Giuseppe Piccardo):

(a) PRIN 2002: “Basic research on fluid-induced vibrations of slender structures”

Member of the Research Group of Strategic Project MIUR-CNR (National P.I. Prof. Francesco Petrini, Milan Polytechnic, Local Coordinator Prof. Giovanni Solari): “Residual life modelling of structures in safe conditions – Evaluation of Atmospheric Hazard” – from 2002 to 2007

Scientific responsibility of research projects ruled through partnership agreements with companies and/or public private bodies

(the total amount of all these research contracts is about 470.000 euro excluding vat)

Safety of S. Agostino Museum windows under extreme wind events; financed by Comune di Genova, July-September 2021

Study of the design wind speed for the new Valpolcevera Bridge (substituting the Morandi Bridge); financed by Italferr S.p.A. – from March 2019 to date

CFD analysis and wind tunnel test for the optimization design of the Genova Bridge deck; financed by Spea Engineering S.p.A. – from March 2019 to date

Analysis of the resilience of maritime-port cluster; co-operative research agreement with PSA International Group, Voltri Terminal Europa (VTE) S.p.A – from February 2018 to date

Web-GIS Meteorological system for North Tyrrhenian Port areas; improvement and integration of the Web-GIS developed in the framework of the European Projects “Wind and Port” (2009-2012) and “Wind, Port and Sea” (2013-2016); financed by the Port Authorities of Eastern Liguria Sea, Western Liguria Sea and Livorno – from 2013 to 2021

Structural monitoring of a vertical axis wind turbine installed in Savona port area; co-operative research agreement with SV Port Service S.r.L. – from February 2016 to date

Study of the wind induced response of the cable-stayed Genova Bridge; Statistical analysis of wind velocity, wind tunnel tests and equivalent static loading of deck and piles; financed by Spea Engineering S.p.A. – from April 2018 to December 2018

Study of the design wind speed for the new Metro Station in Riyadh (Saudi Arabia); financed by Seteco Ingegneria s.r.l. – from April to December 2018

Study of the containers stability in port areas under wind actions; evaluation of critical wind condition for instability through experimental evaluation of the friction coefficient and aerodynamic pressure by wind tunnel test; financed by PSA International Group, Voltri Terminal Europa (VTE) S.p.A - from July 2016 to January 2018

Thermodynamic study of Hadid Tower ventilated facade (Milan): statistical analysis and numerical simulation of wind velocity field, with particular attention to wind calms distribution; financed by MZA Structural Engineering s.r.l. – from July 2015 to October 2015

Short term forecasting system and statistical analysis of wind velocity outside the La Spezia port breakwater; financed by the La Spezia Port Authority – from January 2015 to September 2015

Rotor optimization of the of vertical axis wind turbine through CFD simulation and wind tunnel tests of a flux conveyor system; financed by Elkrom S.r.l. in the framework of the funding POR-FESR 2007-2013, Axis 1 "Innovation and competitiveness ", Action 1.2.2 "Industrial research and experimental development" - from February 2013 to June 2013

Models for the structural response under extreme events of wind speed associated with thunderstorms; financed by University of Genoa (PRA 2011) – from January 2012 to December 2012

Study of wind effects on terraces of Building 12 tower (143 m high) in Milan: wind tunnel tests and statistical analysis of wind velocity for the evaluation of wind comfort and safety on open terraces; financed by Hines Italia S.r.l. – from May 2011 to February 2013

Models for description and forecast of wind speed in coastal sites; financed by University of Genoa (PRA 2011) – from January 2011 to December 2011

Responsible of the Web-GIS Meteorological system realized in the framework of the “Wind and Port” and “Wind, Ports and Sea” European Projects and operatively running in the main High Tyrrhenian Sea Port Authorities (<http://webgis.ventoeporti.net>) – from 2009 to date

Participation to the development of the OS-IS® (Ocean Seismic - Integrated Solution) for remote monitoring of sea waves heights through the micro-seismic noise measurement. The system is based on the Longuet-Higgins (1950), has been developed in the framework of the “Wind, Ports and Sea” European Project and has been patented (registration n. 012963245 <http://www.agi-tech.com/progettimenu.html>) –2013.

Other professional experiences characterized by research activities related to the sector of Structural Engineering:

Collaboration with Genova High Tech S.p.A. with the task of studying the design wind speed and comfort analysis of the new Erzelli Technology District. The specific engagement was addressed to wind tunnel tests and wind comfort analysis - from 2010 to 2011

Collaboration with CityLife S.p.A. with the task of studying the statistical analysis of wind induces effects on the Isozaki tower (210 m high), in Milan. The specific engagement was addressed to the statistical analysis of wind induced forces and moments at the base of the tower - from 2009 to 2010

Collaboration with Seteco Engineering S.p.A. with the task of studying the design wind speed for the Reggio Emilia HHVV Railway Station. The specific engagement was addressed to the statistical analysis of current and extreme wind velocity in the area – 2009

Consulting engagement from La Tecnocasa Energie Alternative S.r.L. with the task of anemological study of Brevenna Valley for Wind Farm design – from 2008 to 2009

Consulting engagement from Spark S.a.S. with the task of designing a steel chimney (70 m high) in Hungary, Hot Strip Mill. The specific engagement was addressed to the wind induced fatigue verification of the chimney – 2007

Consulting engagement from Spark S.a.S. with the task of designing an industrial Freon Crystallizator. The specific engagement was addressed to the FEM analysis and structural design of the steel shell, taking into account temperature and corrosion effects – from 2003 to 2004

Collaboration with Società Stretto di Messina S.p.A. with the task of studying the design wind speed for the Messina Strait Bridge; in the framework of a research project the specific engagement was addressed to the statistical analysis of current and extreme wind velocity from anemometric stations – from 2003 to 2004

Consulting engagements from LD&B Associated Engineers with the task of design of two steel chimneys (50 m high) in Enelpower Electric Plant of Cutro and Ostiglia. The specific engagement was addressed to the ultimate limit state and fatigue analyses of the chimneys under wind actions – 2001 and 2003

Consulting engagement from Bianchi, Bucci, Viganò Associated with the task of wind pressure analysis of Hertziana Library, Max Plank Institut, Roma – 2002

Collaboration with Enelpower S.p.A. with the task of studying the design wind speed for the Electric Plants of La Casella, Piacenza e La Spezia; in the framework of a research project, the specific engagement was addressed to the statistical analysis of current and extreme wind velocity in the areas – 2002

Editorship of Journals and book series

Member of Editorial Board of “Frontiers in Wind Engineering and Science” journal, from April 2021 to date

Guest Editor of “Building Simulation” (Springer), Special Section on Urban comfort and Environmental Quality, Volume 12, Issue 2, pp. 157-194, April 2019, ISSN: 1996-8744

Guest Editor of “Journal of Wind Engineering and Industrial Aerodynamics” (Elsevier), Special Section on “13th Conference of the Italian Association for Wind Engineering (IN-VENTO 2014)” Vol. 147, December 2015, ISSN: 01676105; DOI: 10.1016/j.jweia.2015.11.003

Co-Editor of the book “Vento e Porti - La previsione del vento per la gestione e la sicurezza delle aree portuali /Vent et Ports - La prévision du vent pour la gestion et la sécurité des zones portuaires - ISBN 9788890124648 - 2012

Peer Reviewer of International Journals “ISI Web of knowledge”: (a) Applied energy (Elsevier); (b) Building and Environment (Elsevier); (c) Building simulation (Springer); (d) Energies, MDPI; (e) Engineering Structures (Elsevier); (f) International Journal of Nonlinear Mechanics (Elsevier); (g) Journal of Building Engineering (Elsevier); (h) Journal of Structural Engineering (ASCE); (j) Journal of Wind Engineering and Industrial Aerodynamics (Elsevier); (k) Wind & Structures (Techno-Press) – from 2009 to date

Chairmanship of international and national Conferences

Organizer and Chairman of the Shipping 4.0 Round table Ports and meteorological catastrophic events, on-line streaming, February 11-12 2021

President of the organizing committee and co-Chairman (co-Chairman Prof. Adriano Magliocco) of the “International Conference on Urban Comfort and Environmental Quality” (Urban-CEQ), Genova (Italy), September, 28-29 2017

President of the organizing committee and co-Chairman (co-Chairman Prof. Luigi Carassale) of the 13th International Conference of the Italian Association for Wind Engineering (IN-VENTO 2014), Genova (Italy), June 22-25 2014

Organizer and co-Chairman of the Special Session (co-Chairman Prof. John Holmes) “Wind – induced fatigue” at the 13th International Conference on Wind Engineering (13 ICWE), Amsterdam (The Netherlands), July 10-15 2011

Participation to Advisory Board of international and national Conferences

9th edition of the International conference on fatigue design (Fatigue Design 2021), Senlis (France), November 17-18 2021

XVI International Conference of the Italian National Association for Wind Engineering (Lecco, Italy, September 2020)

8th edition of the International conference on fatigue design (Fatigue Design 2019), Senlis (France), November 20-21 2019

2nd National (Romanian) Conference on Wind Engineering (2NCWE 2019), Bucharest (Romania), June 6-7 2019

7th edition of the International conference on fatigue design (Fatigue Design 2017), Senlis (France), November 29-30 2017

XV International Conference of the Italian National Association for Wind Engineering (Naples, Italy, September 2018)

XIV International Conference of the Italian National Association for Wind Engineering (Terni, Italy, September 2016)

Invited speaker in national and international Conferences, Seminars and Lectures

General lecture “The effect of thunderstorm extreme winds on lightweight structures”, XXVII Conference of Lightweight Structures in Civil Engineering, (LSCE 2021), Lods (Poland), December 2-3 2021

Invited lecture “Genova e l’energia: la centrale termoelettrica del porto – La Struttura”, Workshop “Memoria identitaria tra conservazione e riuso” – AIPAI and Fondazione Ducale, Genova, January 20 2021

Invited lecture “Structural/infrastructural field monitoring of wind and wind-wave induced response, MsRI-EW Meeting: Conference to identify research infrastructure concepts for a national full-scale 200 mph wind and wind-water testing facility, Online Event, Florida International University (USA), August 20-21 2020

Invited lecture “Wind-induced fatigue on steel structures”, National Conference of Association of Industrial Plant– Construction section (ANIMP 2016) Milan (Italy), May 20 2016

Invited lecture “Fatigue analysis of slender structures under turbulent wind actions”, International Colloquium on Lightweight Structures in Civil Engineering (LSCE 2014), Warsaw (Poland), September 25-28 2014

Invited lecture “Wind-induced fatigue”, Technical Meeting of the Wind Engineering Society (WES) London (UK), March 12 2014

Invited lecture “The wind monitoring and forecast systems for risk assessment of complex areas”, International Workshop on “wind disaster problems - challenges ahead”, Royal school of Engineering & Technology, Guwahati (India), February 21-22 2013

Invited lecture “Wind engineering: a multidisciplinary science”, International Workshop on “Wind engineering prospects and challenges”, Assam Engineering College, Guwahati (India), February 23 2013

Seminar “Structural design and retrofitting: dynamic and seismic issues”, Smart Village in Tour, MADE expo – National streaming event- 2013

INSTITUTIONAL OFFICES AND ROLES

Management roles in Universities, as part of Faculty duties

Coordinator of the PhD Curriculum “Structural and Geotechnical Engineering, Mechanics and Materials”, PhD program in “Civil, Chemical and Environmental Engineering”, DICCA, University of Genoa (Italy)- from January 2019 to date

Member of the Executive Board of the Department of Civil, Chemical and Environmental Engineering, DICCA, University of Genoa (Italy) - from July 2012 to June 2015 and from July 2018 to date

Coordinator of the Architectural Engineering Master of Science’s Course, University of Genoa (Italy)- from November 2016 to July 2021

Member of the Research committee of the Department of Civil, Chemical and Environmental Engineering, DICCA, University of Genoa (Italy) - from February 2016 to December 2018

Coordinator of the ISSUGE Curriculum “Engineering solutions for development of sustainable cities”, Advanced School of University of Genoa (Italy) - AY 2015-2016

Coordinator of international students mobility and Erasmus program for the Architectural Engineering Course, University of Genoa (Italy) - from November 2011 to November 2016

Responsible of Erasmus agreements for international students mobility between University of Genoa and (a) Universidad de Alcalà (Spain); (b) Universidad de a Coruña (Spain); (c) Université de Liège (Belgium); (d) Universidade do Minho (Portugal); (e) Universitat Politècnica de Valencia (Spain); (f) Bauhaus-Universität Weimar (Germany) - from 2012 to date

Scientific Responsible of the collection of books of the Library “Riccardo Baldacci”, DISEG, Faculty of Engineering, University of Genoa – from 2005 to 2006

Institutional offices in teaching and research structures of Universities

Member of the Academic Board of the PhD program in “Civil, Chemical and Environmental Engineering”, University of Genoa – from 2012 to 2015 (Cod. DOT0511808) and from 2017 to date (Cod. DOT1311880)

Member of the Academic Board of the PhD Curriculum in “Structural and Geotechnical Engineering, Mechanics and Materials”, PhD program in “Civil, Chemical and Environmental Engineering”, DICCA, University of Genoa (Italy)- from 2011 to date

Member of the Academic Board of the PhD Curriculum in “Wind science and Engineering”, PhD program in “Civil, Chemical and Environmental Engineering”, DICCA, University of Genoa (Italy)- from 2018 to date

Official Reviewer and Member of the International Doctorate Committee for the title of Doctor of Philosophy at Politecnico di Torino, Italy, defense ceremony of L. Raffaele MSc – 19 March 2019

Official Reviewer and Member of the International Doctorate Committee for the title of Doctor of Philosophy at the Bauhaus-Universität of Weimar, Germany, defense ceremony of M. Milani MSc – 19 October 2018

Member of the International Doctorate Committee for the title of Doctor of Philosophy at the Eindhoven University of Technology, The Netherlands, defense ceremony of A. Ricci MSc - 11 April 2017

Member of Master Degree Boards in Architectural Engineering MSc Course (from AY 2012-2013)

to date) and in Civil and Environmental Engineering MSc Course (AY 2017-2018), University of Genoa

Offices in public and private institutions, with scientific and/or technology transfer aims:

Member of the Steering Committee of the Italian Institute of Welding (IIS) - from 2020 to date

Member of the executive Board of the Italian Association for Wind Engineering (ANIV) - from 2014 to date

Secretary-Treasurer of the Italian Association for Wind Engineering (ANIV) - from 2014 to 2019

Member of the C.N.R. Working Group (coordinated by Prof. Giovanni Solari) with the task of revising the technical document CNR-DT 2007/2008 "Guidelines for the assessment of wind loads and effects on structures". The specific engagement was addressed to Fatigue verification procedures - from 2018 to 2019

Participation to RELUIS consortium in the activity of seismic damage recognition of public buildings and churches due to the earthquake in Central Italy in 2016 – 2017

Member of the Italian Association for Wind Engineering (ANIV) - from 2009 to date

Member of the Italian Society of Engineers Province of Genoa – from 2001 to date

Invited member of the ANAS Working Group with the task of revising the technical document CNR-DT 2007/2008 preparing a new technical document "Guidelines for the design of roadway bridges and viaducts". The specific engagement was addressed to fatigue verification procedures - from 2010 to 2011

TEACHING ACTIVITY

Formal responsibility of Bachelor's and Master of Science's degree courses

Professor of "Wind engineering", Civil Engineering MSc Course (LM23), University of Genoa - AY 2007-2008 and 2020-21- to date

Professor of "Steel structures", Civil and Environmental Engineering MSc Course (LM23), University of Genoa. - from AY 2016-2017 to date

Professor of "Structural Design", Architectural Engineering MSc Course (LM4), University of Genoa. - from AY 2012-2013 to date

Professor of "Special and advanced structures", Civil and Environmental Engineering MSc Course (LM23), University of Genoa – from AY 2015-2016 to AY 2016-2017

Responsible of the experimental educational laboratory funded by University of Genoa for experimental tests for the elastic-plastic behaviour analysis and ultimate resistance measure on steel specimens of typical moment resistant connections, Civil and Environmental Engineering MSc Course and Architectural Engineering MSc Course (LM4) - from AY 2016-2017 to date

Professor of "Structural materials and elements", Architectural Engineering MSc Course (LM4), University of Genoa - from AY 2013-2014 to AY 2014-2015

Professor of "Advanced Structural Design", Architectural Engineering MSc Course (LM4), University of Genoa - from AY 2006-2007 to AY 2012-2013

Professor of "Earthquake Engineering", Civil Engineering MSc Course (LM23), University of Genoa - AY 2005-2006

Assistant professor of "Reinforced concrete and Pre-stressed reinforced concrete structures" Civil

Engineering MSc Course (LM23), University of Genoa, and member of Examination Committee – from AY 2000-2001 to - AY 2004-2005

Assistant professor of “Wind engineering” Civil Engineering MSc Course (LM23), University of Genoa, and member of Examination Committee – from AY 2000-2001 to AY 2004-2005

Formal responsibility of PhD courses, Specializing Master’s courses and Life Learning courses

PhD course “Monitoring and analysis of downburst events and their effects on structural response”, PhD Program in program in Safety, Risk and Vulnerability, University of Genoa (12 hours) - from AY 2017-2018 to date

PhD course “Fatigue of steel structures”, PhD Program in Civil, Chemical and Environmental Engineering, University of Genoa (30 hours) - from AY 2017-2018 to date

PhD course “Fatigue in welded joints”, PhD Program in Engineering Science and Technologies, University of Genoa (bi-annual course, 30 hours) - from AY 2009-2010 to AY 2016-2017

Short course “Wind flow modelling and climate analyses”, Bauhaus Summer School “Forecast Engineering: Global Climate Change and the Challenges for Built Environment”, Bauhaus-Universität Weimar, Germany – 2014 and 2016

Course “Sustainable City”, Advanced School ISSUGE - IAS, University of Genoa - AY 2015-2016

Assistant professor of the course “Wind effects on buildings”, 2nd Level University Master's Degree in “Wind Engineering”, funded by the European Social Fund - Lombardy Region, inter-university Milan Polytechnic and University of Genoa – AY 2004-2005

Short Course “Wind-induced fatigue of buildings: modelling and and real cases analysis”, in the framework of the “Wind-induced effects on buildings” organized by Italian Society of Engineers, Province of Genoa - 2018

Tutoring

Supervisor of 65 MSc Thesis at Polytechnic School, University of Genoa, carried out on the issues of structural engineering, steel construction and wind engineering, of which 11 in collaboration with Public and Private companies, 2 in the framework of Erasmus Program of international mobility – from 2008 to date

Supervisor for 28 students international mobility: (a) 1 student with Erasmus Mundus grant (KTH, Brazil); (b) 13 students with Erasmus grant for study in European Universities; (c) 14 students with Erasmus Placement grant for traineeship in European Companies – from 2011 to date

Genova, 06/07/2021

Prof. Maria Pia Repetto