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Decreto Rettore Università di Roma “La Sapienza” n 2443/2021 del 20.09.2021

## PAOLO MONTI Curriculum Vitae

Place: Roma  
Date: 05/10/2021

### Part I – General Information

Full Name	Paolo Monti
Place of Birth	Roma
Citizenship	Italian
Spoken Languages	Italian; English

### Part II – Education

Type	Year	Institution	Notes (Degree, Experience,...)
PhD	1994	University of Rome “La Sapienza”	Sanitary Engineering
University graduation	1990	University of Rome “La Sapienza”	Aeronautical Engineering

### Part III – Academic Appointments

Start	End	Institution	Position
2020	Present	University of Rome “La Sapienza”	Associate Professor
2000	2020	University of Rome “La Sapienza”	Researcher
2000	2003	Arizona State University (USA)	Visiting Professor (total: five months)

### Part IV – Teaching experience

- In the years 1994, 1995 and 1997 he taught “Environmental Systems Modelling and Control” (University of Rome "La Sapienza").
- From 2001 to 2021 he taught courses for the SSD ICAR01, viz.:



Year	Institution	Course
2001	University of Rome “La Sapienza”	Fluid Mechanics
2002	University of Rome “La Sapienza”	Fluid Mechanics
2003	University of Rome “La Sapienza”	Hydraulics

2003	University of Rome “La Sapienza”	Fluid Mechanics
2004	University of Rome “La Sapienza”	Hydraulics
2005	University of Rome “La Sapienza”	Hydraulics
2005	University of Rome “La Sapienza”	Environmental Hydraulics
2006	University of Rome “La Sapienza”	Hydraulics
2006	University of Rome “La Sapienza”	Environmental Hydraulics
2007	University of Rome “La Sapienza”	Hydraulics
2007	University of Rome “La Sapienza”	Environmental Hydraulics
2008	University of Rome “La Sapienza”	Hydraulics
2008	University of Rome “La Sapienza”	Environmental and Maritime Hydraulics
2009	University of Rome “La Sapienza”	Hydraulics
2009	University of Rome “La Sapienza”	Environmental and Maritime Hydraulics
2009	University of Rome “La Sapienza”	Hydraulics Supplements
2010	University of Rome “La Sapienza”	Hydraulics
2010	University of Rome “La Sapienza”	Hydraulics Supplements
2011	University of Rome “La Sapienza”	Environmental and Maritime Hydraulics
2011	University of Rome “La Sapienza”	Urban Climatology
2012	University of Rome “La Sapienza”	Applied Climatology
2012	University of Rome “La Sapienza”	Urban Climatology
2013	University of Rome “La Sapienza”	Applied Climatology
2013	University of Rome “La Sapienza”	Urban Climatology
2014	University of Rome “La Sapienza”	Applied Climatology
2014	University of Rome “La Sapienza”	Urban Climatology
2015	University of Rome “La Sapienza”	Environmental and Maritime Hydraulics
2015	University of Rome “La Sapienza”	Urban Climatology
2016	University of Rome “La Sapienza”	Environmental and Maritime Hydraulics
2016	University of Rome “La Sapienza”	Urban Climatology
2017	University of Rome “La Sapienza”	Environmental and Maritime Hydraulics
2017	University of Rome “La Sapienza”	Urban Climatology
2018	University of Rome “La Sapienza”	Environmental and Maritime Hydraulics
2018	University of Rome “La Sapienza”	Urban Climatology
2019	University of Rome “La Sapienza”	Environmental and Maritime Hydraulics
2019	University of Rome “La Sapienza”	Urban Climatology
2020	University of Rome “La Sapienza”	Environmental and Maritime Hydraulics
2020	University of Rome “La Sapienza”	Urban Climatology

**Part V - Society memberships, Awards and Honours**

Year	Title
2010-present	Member of GII (Gruppo Italiano Idraulica)



**Part VI - Services**

- 2018: Member of the Scientific Committee HARMO18 - Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, 9-12 October, Bologna, Italy
- 2006: Member of the Organizing Committee of the “XXX Convegno di Idraulica e Costruzioni Idrauliche”
- 2020-present: Member of the Editorial Board of the Journal “Sustainability” (MDPI, IF=3.251)
- 2020-present: Guest Editor – Special Issue of the Journal Sustainability “Integrated Evaluation of Indoor Particulate Matter (VIEPI) Project: Study Design, Results and Open Questions”
- 2006: Member of the Commission for a position of Researcher (ICAR01) – University of Cagliari.
- 2021: Internal member of the Commission for a position of Associate Professor (ICAR01) – University of Rome “La Sapienza”

**Part VII - Funding Information [grants>40,000 Euros; Role: principal investigator or chief of local unit]**

Year	Title	Program	Grant value (Euros)
2019	Principal investigator of the project "Integrated study of workers' exposure to atmospheric particulate matter in indoor environments: numerical-experimental simulation of fluid dynamics and concentration fields, in real and laboratory scale"	BRiC – Borsa di Ricerca in Collaborazione. Bando Nazionale (funds: INAIL)	Total: 420,000 As first partner: 102,000
2017	Chief of the local unit DICEA of the project "Numerical and experimental study of the transfer of atmospheric particulate matter within indoor environment"	BRiC – Borsa di Ricerca in Collaborazione. Bando Nazionale (funds: INAIL)	220,000
2017	Principal Investigator of the project “Water-channel Estimation of Eulerian and Lagrangian Time Scales of the Turbulence in Idealized Two-Dimensional Urban Canopies”	Funds from University of Rome “La Sapienza”	58,250
2011	Principal investigator of the Project “Analysis of the Energetic Potential associated to the wave motion of the Mediterranean Sea”	DICEA-ENEA Agreement	40,000
2006	Chief of the local unit “La Sapienza” of the project "Hyperspectral analysis of sand bars dynamics in lagoons"	PRIN	40,000

He has been principal investigator or investigator of many other national and international granted research projects regarding environmental fluid mechanics and hydraulics.

**Part VIII – Research Activities**

Research interests regard several branches of *Environmental Fluid Mechanics*.

Keywords	Brief Description
Dispersion modelling	Development of Lagrangian stochastic models of passive tracer



	dispersion
Stably stratified flows	Investigation of turbulent mixing in stably stratified flows by means of field and laboratory experiments
Turbulence and mixing above surface roughness	Water-channel experiments of flow and passive tracer dispersion
Atmospheric boundary layer	Experimental and numerical studies of atmospheric flows in complex terrain
Marine turbulence	Experimental and numerical studies of turbulence and dispersion in marine environment

He has collaborated with several research institutions and Italian and foreign universities, e.g.:

- Met Office (UK)
- Arizona State University (USA)
- University of Utah (USA)
- University of Lyon (FR)
- Eindhoven University of Technology (The Nederland)
- Polytechnic University of Catalunya (Spain)
- National Center for Atmospheric Research (NCAR), (USA)
- Polish Academy of Sciences, Warsaw (Poland)
- Los Alamos National Laboratory, Los Alamos, New Mexico (USA)
- Istituto Superiore per la Protezione e la Ricerca Ambientale (ISPRA)
- Agenzia per la Protezione dell'Ambiente e per i servizi Tecnici (APAT)
- Istituto di Scienze Atmosferiche e Clima - Consiglio Nazionale delle Ricerche (CNR)
- Istituto di Inquinamento Atmosferico (CNR)
- INSEAN (Istituto Nazionale Studi ed Esperienze in Architettura Navale; now Italian Institute of Italian Ship Model Basin - CNR)
- Agenzia Nazionale per le Nuove Tecnologie, l'Energia e lo Sviluppo Economico Sostenibile (ENEA)
- Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (OGS)
- Istituto Nazionale di Geofisica e Vulcanologia (INGV)
- Istituto Nazionale per l'Assicurazione contro gli Infortuni sul Lavoro (INAIL)
- Ricerche sul Sistema Energetico - RSE spa

#### Other main research activities

- From 10/09/2000 to 14/12/2003 (total five months): he participated as Research Scientist (Arizona State University, USA) to VTMX (Vertical Transport and MiXing) experiments.
- From 01/01/1997 to 31/12/1998: he collaborated to the European Action COST 710 "Harmonization in the pre-processing of meteorological data for dispersion models - Working Group 3: Vertical Profiles of Wind, Temperature and Turbulence".
- From 01/01/1999 to 31/12/1999: he collaborated to the research project "Campo idrodinamico in un flusso bifase: interazione tra fluido e sedimento di fondo" (agreement between "La Sapienza" and INSEAN).
- From 01/06/2006 to 01/06/2007: he collaborated to the research project: "Modello lagrangiano di dispersione per lo studio dell'impatto ambientale dovuto al trasporto marino lungo le principali rotte del Mediterraneo" (agreement between APAT and "La Sapienza").
- 2013: he collaborated to the research project "Studio degli effetti di diluizione da scarichi a mare di acque reflue civili" (agreement between "La Sapienza" and Laboratori SPA - ACEA Group, Azienda Comunale Energia e Ambiente, Roma).



- 2013: he collaborated to the research project "Simulazione di oil-spill incidentale e diffusione di inquinanti in atmosfera dovuti alle attività di perforazione di un pozzo esplorativo in mare" (agreement between "La Sapienza" and "Studio Tecnico Panebianco").
- 2006-2007: he collaborated to the research project "Modello lagrangiano di dispersione per lo studio dell'impatto ambientale dovuto al trasporto marino lungo le principali rotte del Mediterraneo" (agreement between APAT and "La Sapienza").

### Part IX – Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Papers [international]	48	SCOPUS	1996	2021
Papers [national]	2	SCOPUS	1996	1996

Total Impact factor	<b>76.289</b>
Total Citations	<b>979</b>
Average Citations per Product	<b>19.58</b> (tot. cit. divided by the number of <i>papers</i> on Scopus [50])
	<b>10.64</b> (tot. cit. divided by the number of <i>product</i> on Scopus [92])
Hirsch (H) index	<b>19</b>
Normalized H index*	<b>0.655</b>

\*H index divided by the academic seniority (**29 years**= **2021 – 1993**, that is, current date minus year of the oldest publication included in SCOPUS [1993] plus 1)

### Part X – Selected Publications (Source: SCOPUS)

N	Paper Title	Authors	Year	Ref data	IF	Cit.
1	A three-dimensional urban canopy model for mesoscale atmospheric simulations and its comparison with a two-dimensional urban canopy model in an idealized case	Conigliaro E, Monti P, Leuzzi G, Cantelli A	2021	<i>Urban Climate</i> <b>37</b> , 100831. Elsevier.	5.731	1
2	Turbulent Schmidt number measurements over three-dimensional cubic arrays	Di Bernardino A, Monti P, Leuzzi G, Querzoli G	2020	<i>Boundary-Layer Meteorology</i> <b>174</b> , 231-250. Springer Nature.	2.949	11
3	Detecting sensitive areas in confined shallow basins	De Serio F, Armenio E, Ben Meftah M, Capasso G, Corbelli V, De Padova D, De Pascalis F, Di Bernardino A, Leuzzi G, Monti P, Mossa M, Pini A, Velardo R	2020	<i>Environmental Modelling and Software</i> <b>126</b> , 104659. Elsevier.	5.288	7
4	Water-channel estimation of Eulerian and Lagrangian time scale of the turbulence in idealized two-dimensional	Di Bernardino A, Monti P, Leuzzi G, Querzoli G	2017	<i>Boundary-Layer Meteorology</i> <b>165</b> , 251-276. Springer	2.607	16



	urban canopies			Nature.		
5	A modeling approach to identify the effective forcing exerted by wind on a prealpine lake surrounded by a complex topography	Valerio G, Cantelli A, Monti P, Leuzzi G	2017	<i>Water Resources Research</i> <b>53</b> , 4036-4052. Wiley-Blackwell.	4.361	12
6	Water-channel study of flow and turbulence past a 2D array of obstacles	Di Bernardino A, Monti P, Leuzzi G, Querzoli G	2015	<i>Boundary-Layer Meteorology</i> <b>155</b> , 73-85. Springer Nature.	2.455	35
7	Eddy diffusivity derived from drifter data for dispersion model applications.	De Dominicis M, Leuzzi G, Monti P, Pinardi N, Poulain P-M	2012	<i>Ocean Dynamics</i> <b>62</b> , 1381-1398. Springer Nature.	1.761	42
8	A 3D Lagrangian dispersion model LAGFLUM and its validation with a wind tunnel experiment	Leuzzi G, Amicarelli A, Monti P, Thomson DJ	2012	<i>Atmospheric Environment</i> <b>54</b> , 117-126. Elsevier.	3.110	23
9	Lagrangian models of dispersion in marine environment	Monti P, Leuzzi G	2010	<i>Environmental Fluid Mechanics</i> <b>10</b> , 637-656. Springer Nature.	1.605	21
10	Mixing properties of a stably stratified parallel shear layer	Monti P, Querzoli G, Cenedese A, Piccinini S	2007	<i>Physics of Fluids</i> <b>19</b> , 085104. American Institute of Physics.	1.780	13
11	The Proper Orthogonal Decomposition in the Analysis of a Laboratory Simulation of Land- and Sea-Breeze Regimes	Cenedese A, Monti P	2004	<i>Journal of Fluid Mechanics</i> <b>510</b> , 1-28. Cambridge University Press.	1.853	4
12	Interaction between an Inland Urban Heat Island and a Sea Breeze Flow: a Laboratory Study	Cenedese A, Monti P	2003	<i>Journal of Applied Meteorology</i> <b>42</b> , 1569-1583. American Meteorological Society	1.738	61
13	Observation of Flow and Turbulence in the Nocturnal Boundary Layer Over a Slope.	Monti P, Fernando HJS, Princevac M, Chan WC, Kowalewski TA, Pardyjak ER	2002	<i>Journal of the Atmospheric Sciences</i> <b>59</b> , 2513-2534. American Meteorological Society	1.779	185
14	Flux Richardson Number Measurements in Stable Atmospheric Shear Flows	Pardyjak ER, Monti P, Fernando HJS	2002	<i>Journal of Fluid Mechanics</i> <b>459</b> , 307-316. Cambridge University Press.	1.882	69
15	A Closure to Derive a Three-Dimensional Well-Mixed Trajectory-Model for Non-Gaussian, Inhomogeneous Turbulence	Monti P, Leuzzi G	1996	<i>Boundary-Layer Meteorology</i> <b>80</b> , 311-331. Springer Nature.	1.161*	19

Publication 15 was published in a year in which no IF from Clarivate was available (it covers 1997-present). For this reason, IF=1.161 - referred to year 1997 - has been considered in the table above.

## Part XI – List of publications

- Part XIa (Journal Articles [49] and Review [1] – Source: SCOPUS)

1. Conigliaro E, Monti P, Leuzzi G, Cantelli A (2021) A three-dimensional urban canopy model for mesoscale atmospheric simulations and its comparison with a two-dimensional urban canopy model in an idealized case. *Urban Climate* **37**, 100831.
2. Pelliccioni A, Monti P, et. al. (2020) Integrated Evaluation of Indoor Particulate Exposure: The VIEPI Project. *Sustainability* **12**, 9758.
3. Di Bernardino A, Monti P, Leuzzi G, Querzoli G (2020) Eulerian and Lagrangian time scales of the turbulence above staggered arrays of cubical obstacles. *Environmental Fluid Mechanics* **20**, 987-1005.
4. De Serio F, Armenio E, Ben Meftah M, Capasso G, Corbelli V, De Padova D, De Pascalis F, Di Bernardino A, Leuzzi G, Monti P, Mossa M, Pini A, Velardo R (2020) Detecting sensitive areas in confined shallow basins. *Environmental Modelling and Software* **126**, 104659.
5. Di Bernardino A, Monti P, Leuzzi G, Querzoli G (2020) Turbulent Schmidt number measurements over three-dimensional cubic arrays. *Boundary-Layer Meteorology* **174**, 231-250.
6. Salvati A, Monti P, Coch Roura H, Cecere C (2019) Climatic performance of urban textures: analysis tools for a Mediterranean urban context. *Energy and Building* **185**, 162-179.
7. Pini A, Leuzzi G, Monti P (2018) Statistical analysis of turbulent dispersion in the sea surface layer based on satellite-tracked drifter data. *International Journal of Offshore and Polar Engineering* **28**, 240-247.
8. Ravanelli R, Nascetti A, Cirigliano RV, Di Rico C, Leuzzi G, Monti P, Crespi M (2018) Monitoring the impact of land cover change on surface urban heat island through Google Earth Engine: proposal of a global methodology, first applications and problems. *Remote Sensing* **10**, 1488.
9. Di Bernardino A, Monti P, Leuzzi G, Querzoli G (2018) Pollutant fluxes in two-dimensional street canyons. *Urban Climate* **24**, 80-93.
10. Di Bernardino A, Pelliccioni A, Monti P, Leuzzi G, Querzoli G (2018) Evaluation of parametric laws for computing the wind speed profile in the urban boundary layer. Comparison to two-dimensional building water channel experiment. *International Journal of Environment and Pollution* **64**, 4-21.
11. Nardecchia F, Di Bernardino A, Pagliaro F, Monti P, Leuzzi G, Gugliermetti L (2018) CFD analysis of urban canopy flows employing the V2F model: impact of different aspect ratios and relative heights. *Advances in Meteorology* **2018**, Article ID 2189234. (*REVIEW*)
12. Di Bernardino A, Monti P, Leuzzi G, Querzoli G (2017) Water-channel estimation of Eulerian and Lagrangian time scale of the turbulence in idealized two-dimensional urban canopies. *Boundary-Layer Meteorology* **165**, 251-276.
13. Amicarelli A, Leuzzi G, Monti P, Alessandrini S, Ferrero E (2017) A stochastic Lagrangian micromixing model for the dispersion of reactive scalars in turbulent flows: role of concentration fluctuations and improvements to the conserved scalar theory under non-homogeneous conditions. *Environmental Fluid Mechanics* **17**, 715-753.
14. Cantelli A, Monti P, Leuzzi G, Valerio G, Pilotti M (2017) Numerical simulations of mountain winds in an alpine valley. *Wind and Structures* **24**, 565-578.
15. Valerio G, Cantelli A, Monti P, Leuzzi G (2017) A modeling approach to identify the effective forcing exerted by wind on a prealpine lake surrounded by a complex topography. *Water Resources Research* **53**, N. 5, 4036-4052.
16. Pelliccioni A, Monti P, Leuzzi G (2016). Wind-speed profile and roughness sublayer depth modelling in urban boundary layers. *Boundary-Layer Meteorology* **160**, 225-248.
17. Cantelli A, Monti P, Leuzzi G (2015) Numerical study of the urban geometrical representation impact in a surface energy budget model. *Environmental Fluid Mechanics* **15**, 251-273.
18. Di Bernardino A, Monti P, Leuzzi G, Querzoli G (2015) Water-channel study of flow and turbulence past a 2D array of obstacles. *Boundary-Layer Meteorology* **155**, 73-85.
19. Pelliccioni A, Monti P, Leuzzi G (2015) An alternative wind profile formulation for urban areas in neutral conditions. *Environmental Fluid Mechanics* **15**, 135-146.
20. Amicarelli A., Leuzzi G, Monti P, Pepe N, Pirovano G (2015) Lagrangian micromixing modelling of reactive scalar statistics: surface pollutant sources in decaying grid turbulence. *International Journal of Environment and Pollution* **58**, 251-267.
21. Amicarelli A, Di Bernardino A, Catalano F, Leuzzi G, Monti P (2015) Analytical solutions of the balance equation for the scalar variance in one-dimensional turbulent flows under stationary conditions. *Advances in Mathematical Physics* **Vol. 2015**, Article ID 424827.
22. Cantelli A, Monti P, Leuzzi G (2014) Development and integration of a subgrid urban surface scheme in a limited area model. *International Journal of Environment and Pollution* **55**, 230-237.
23. Pelliccioni A, Monti P, Leuzzi G (2014) Roughness length parameterisation in urban boundary layers. *International Journal of Environment and Pollution* **55**, 13-21.
24. Monti P, Fernando HJS, Princevac M (2014) Waves and turbulence in katabatic winds. *Environmental Fluid Mechanics* **14**, 431-450.

25. Amicarelli A, Leuzzi G, Monti P (2012) Lagrangian micromixing models for concentration fluctuations: an overview. *American Journal of Environmental Sciences* **8**, 577-590.
26. Pelliccioni A, Monti P, Gariazzo C, Leuzzi G (2012) Some characteristics of the urban boundary layer above Rome, Italy, and applicability of the Monin-Obukhov similarity. *Environmental Fluid Mechanics* **12**, 405-428.
27. De Dominicis M, Leuzzi G, Monti P, Pinardi N, Poulain P-M (2012) Eddy diffusivity derived from drifter data for dispersion model applications. *Ocean Dynamics* **62**, 1381-1398.
28. Amicarelli A, Salizzoni P, Leuzzi G, Monti P, Soulhac L, Cierco F-X, Leboeuf F (2012) Sensitivity analysis of a concentration fluctuation model to dissipation rate estimates. *International Journal of Environment and Pollution* **48**, 164-173.
29. Leuzzi G, Amicarelli A, Monti P, Thomson DJ (2012) A 3D Lagrangian dispersion model LAGFLUM and its validation with a wind tunnel experiment. *Atmospheric Environment* **54**, 117-126.
30. Cantelli A., Leuzzi G, Monti P, Viotti P (2012) An inverse modelling approach for estimating vehicular emissions in urban coastal areas of the Messina Strait. *International Journal of Environment and Pollution* **50**, 274-282.
31. Petenko I, Mastrantonio G, Viola A, Argentini S, Coniglio L, Monti P, Leuzzi G (2011) Local circulation diurnal patterns and their relationship with large-scale flows in a coastal area of the Tyrrhenian Sea. *Boundary-Layer Meteorology* **139**, 353-366.
32. Amicarelli A, Leuzzi G, Monti P, Thomson DJ (2011) LAGFLUM, a stationary 3D Lagrangian stochastic numerical micromixing model for concentration fluctuations: validation in canopy turbulence, on the MUST wind tunnel experiment. *International Journal of Environment and Pollution* **47**, 317-325.
33. Cantelli A, Monti P, Leuzzi G (2011) An investigation of the urban heat island of Rome through a canyon based subgrid scheme. *International Journal of Environment and Pollution* **47**, 239-247.
34. Amicarelli A, Leuzzi G, Monti P, Thomson DJ (2011) A comparison between IECM and IEM Lagrangian models. *International Journal of Environment and Pollution* **44**, 324-331.
35. Monti P, Leuzzi G (2010) Lagrangian models of dispersion in marine environment. *Environmental Fluid Mechanics* **10**, 637-656.
36. Leuzzi G, Monti P, Amicarelli A (2010) An urban scale model for pollutant dispersion in Rome. *International Journal of Environment and Pollution* **40**, 85-93.
37. Giorgilli M, Moroni M, Monti P, Cenedese C (2009) Interaction between slope flows and an urban heat islands. *Advances in Turbulence XII*, Part 8, 537-540.
38. Amicarelli A, Leuzzi G, Monti P, Thomson DJ (2008) A stationary 3D Lagrangian stochastic numerical model for concentration fluctuations. *Croatian Meteorological Journal* **43**, 387-391.
39. Cantelli A, Monti P, Leuzzi G (2008) A subgrid surface scheme for the analysis of the urban heat island of Rome. *Croatian Meteorological Journal* **43**, 354-358.
40. Querzoli G, Monti P, Cenedese A (2008) Image analysis applied to the study of mixing in a stably stratified shear layer. *Experiments in Fluids* **45**, 633-642.
41. Monti P, Querzoli G, Cenedese A, Piccinini S (2007) Mixing properties of a stably stratified parallel shear layer. *Physics of Fluids* **19**, 085104.
42. Monti P, Leuzzi G (2005) A Numerical Study of Mesoscale Airflow and Dispersion over Coastal Complex Terrain. *International Journal of Environment and Pollution* **25**, 239-250.
43. Cenedese A, Monti P (2004) The Proper Orthogonal Decomposition in the Analysis of a Laboratory Simulation of Land- and Sea-Breeze Regimes. *Journal of Fluid Mechanics* **510**, 1-28.
44. Cenedese A, Monti P (2003) Interaction between an Inland Urban Heat Island and a Sea Breeze Flow: a Laboratory Study. *Journal of Applied Meteorology* **42(11)**, 1569-1583.
45. Monti P, Fernando HJS, Princevac M, Chan WC, Kowalewski TA, Pardyjak ER (2002) Observation of Flow and Turbulence in the Nocturnal Boundary Layer Over a Slope. *Journal of the Atmospheric Sciences* **59**, 2513-2534.
46. Pardyjak ER, Monti P, Fernando HJS (2002) Flux Richardson Number Measurements in Stable Atmospheric Shear Flows. *Journal of Fluid Mechanics* **459**, 307-316.
47. Cenedese A, Miozzi M, Monti P (2000) A Laboratory Investigation of Land and Sea Breeze Regimes. *Experiments in Fluids* **29**, 291-299.
48. Leuzzi G, Monti P (1998) Particle Trajectory-Simulation of Dispersion Around a Building. *Atmospheric Environment* **32**, 203-214.
49. Leuzzi G, Monti P (1997) Breeze Analysis By Mast and Sodar Measurements. *Il Nuovo Cimento C* **20**, 343-359.
50. Monti P, Leuzzi G (1996) A Closure to Derive a Three-Dimensional Well-Mixed Trajectory-Model for Non-Gaussian, Inhomogeneous Turbulence. *Boundary-Layer Meteorology* **80**, 311-331.

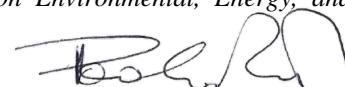
- Part XIa\_1 (Peer-Reviewed Journal Paper; in press)

51. Palusci O, Monti P, Cecere C, Montazeri H, Blocken B (2021) Impact of morphological parameters on urban ventilation in compact cities: The case of the Tuscolano-Don Bosco district in Rome. *Science of The Total Environment*. DOI: 10.1016/j.scitotenv.2021.150490. (IF=7.963).



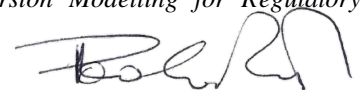
- Part XIb (Other Publications - Source: SCOPUS)

52. Pini A, Musa I, Monti P, Leuzzi G, Di Bernardino A, Cattani G, Di Menno Di Bucchianico A, Gherardi M, Pelliccioni A (2020) Numerical and experimental analysis of flow and particulate matter dispersion in indoor environment. *IOP Conference Series: Earth and Environmental Science* **489**, Article number 012007.
53. Pini A, Grandoni L, Leuzzi G, Monti P, Di Bernardino A, Pelliccioni A, Gherardi M, Cattani G, Di Menno Di Bucchianico A (2020) A simplified analytical model of ultrafine particle concentration within an indoor environment. *IOP Conference Series: Earth and Environmental Science* **489**, Article number 012009.
54. Zazzini S, De Dominicis M, Pini A, Leuzzi G, Monti P, O'Hara Murray R, Li X (2019) Turbulence changes due to a tidal stream turbine operation in the Pentland Firth (Scotland, UK). *Proceedings of 2019 IMEKO TC-19 International Workshop on Metrology for the Sea*, October 3-5, Genoa, Italy.
55. Pini A, Tomassetti P, Matiddi M, de Lucia GM, Bello P, Zazzini S, Leuzzi G, Monti P (2019) Microplastic detection and Lagrangian modelling in the Tyrrhenian Sea. *Proceedings of 2019 IMEKO TC-19 International Workshop on Metrology for the Sea*, October 3-5, Genoa, Italy.
56. Pini A, Leuzzi G, Monti P, Manfredi M (2018) Modelling of short-term dispersion in the sea surface layer. *Proceedings of 2018 IEEE International Workshop on Metrology for the Sea*, 8-10 Ottobre, Bari, Italia.
57. Pini A, Tomassetti P, Matiddi M, de Lucia GA, Zampetti G, Lattanzi C, Leuzzi G, Monti P (2018) Microplastic samplings and inverse trajectory recognition in the Mediterranean Sea. *Proceedings of 2018 IEEE International Workshop on Metrology for the Sea*, 8-10 Ottobre, Bari, Italia.
58. Pelliccioni A, Tofful L, Catrambone M, et al. (2019) The integrated evaluation of indoor particulate exposure (Viepi) project: main goals and campaign description. *Proc. 19th Int. Conf. Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes*, 3-6 June, Bruges, Belgium.
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160. Cenedese A, Leuzzi G, Monti P (1993) Dispersione di Inquinanti in Prossimità di un Rilevato Stradale. Atti del *1° Convegno Nazionale Progetto Finalizzato Trasporti 2 - CNR*, 19-21 Ottobre, Roma, Italia.

161. Leuzzi G, Monti P (1993) Dispersione di Inquinanti in Ambienti Confinati. Atti del *Congresso Biennale ANDIS '93*, 21-23 Settembre, Palermo.
162. Cenedese A, Leuzzi G, Monti P (1992) Modelli Previsionali di Trasporto e Diffusione di Inquinanti. Atti del 2° *Convegno in terra d'Otranto "L'inquinamento dell'Aria"*, 22-24 Ottobre, Lecce, Italia.
163. Cenedese A, Leuzzi G, Monti P (1992) Two Dimensional Lagrangian Model to Evaluate Pollutant Dispersion Over a Hill in the Neutral Boundary Layer. Proc. of the *2nd International Congress on Energy, Environment and Technological Innovation*, 12-16 October, Roma, Italy.
164. Cenedese A, Leuzzi G, Monti P (1992) Lagrangian Model For Traffic Pollutant Dispersion Analysis. Atti del 1° *Simposio Italo-Brasiliano di Ingegneria Sanitaria-Ambientale*, 29/3-3/4, Rio de Janeiro, Brasil.

## **Part XII – Peer-Reviewed Journal Referee**

Article reviewer for about 15 peer-reviewed journals, among them:

- Journal of Fluid Mechanics
- Physics of Fluids
- Advances in Water Resources
- Environmental Fluid Mechanics
- Boundary-Layer Meteorology
- Journal of Applied Meteorology
- Urban Climate
- Theoretical and Applied Climatology
- Atmosphere
- Building and Environment
- Remote Sensing
- Science of the Total Environment
- Atmospheric Pollution Research

## **Part XIII – Supervisor Activity**

- 1994-present: supervisor of nearly 65 degree and master degree thesis (Engineering Courses of the University of Rome “La Sapienza” - Latina, Roma and Rieti)
- 2009-present: supervisor of five Ph.D. thesis (“Hydraulic Engineering” and “Environmental and Hydraulic Engineering”, University of Rome “La Sapienza”).
- 2014-2016: Ph.D. co-supervisor (Cotutelle between “La Sapienza” and “Universitat Politècnica de Catalunya Barcelona TECH, Spain).
- 2019-present: Ph.D. co-supervisor (Cotutelle between “La Sapienza” and “Ecole Centrale de Lyon”, France).
- 2018-present: Ph.D. co-supervisor (Cotutelle between “La Sapienza” and “TU/e Technische Universiteit Eindhoven”, The Netherland).

## **Part XIV – Keynote Speaker (Invited Lecturer)**

- “Numerical analysis of pollutant dispersion in marine environment by means of Lagrangian stochastic models”. Symposium held at Foz do Iguaçu, Brazil, 8-12 August 2010, American Geophysical Union (AGU) Meeting of the Americas. <https://news.agu.org/press-release/2010-meeting-of-the-americas-media-advisory-3/>.

## **Part XV – Main Academic Tasks**



<i>Description</i>	<i>Period</i>
Member of the “Consiglio di Dipartimento di Idraulica Trasporti e Strade”	2000-2010
Member of the “Consiglio di Dipartimento di Ingegneria Civile Edile e Ambientale”	2011-present
Member as Representative of Researchers of the “Giunta del Dipartimento di Idraulica Trasporti e Strade”	Total: 4 years
Member of the “Commissione Didattica” of the “Corso di Laurea in Ingegneria per l’Ambiente e il Territorio”	2017-present
Member of the PhD board - “Hydraulic Engineering” and “Environmental and Hydraulic Engineering”	2001-present
Member of the Engineering Board - Rieti	2001-2015
Member of the “Nucleo di Valutazione” of the Engineering Faculty, Sapienza University of Rome (Elected as Representative of Researchers).	2011-2012
Chief of the “Hydraulic Laboratory” of the Dipartimento di Ingegneria Civile Edile e Ambientale	2014-present
Director of the “Museo di Idraulica” - Polo Museale Sapienza	2017-present
Reviewer for VQR 2011-2014	2017
Reviewer for VQR 2015-2019	2021

## **Part XVI – Language Skills**

Level 75 of the “Shenker Method”

Roma, 05/10/2021

Paolo Monti

