

PERSONAL INFORMATION

Sergio Montelpare



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Sex Male | Date of birth January 4, 1973 | Nationality Italian

CURRENT POSITION

Full Professor of Building Physics and Energy Systems
 (SSD IIND-07/B, ex ING-IND/11 ; GSD 09/IIND-07, ex SC 09/C2)
 Department of Engineering and Geology (INGEO)
 "G. d'Annunzio" University of Chieti-Pescara (Italy)

PROFESSIONAL EXPERIENCE

- Dec. 01, 2021 - Present **Full Professor of Building Physics and Energy Systems (ING-IND/11)**
 "G. d'Annunzio" University of Chieti-Pescara (Italy)
 Department of Engineering and Geology (INGEO)
 42, Viale Pindaro, 65127, Pescara (Italy)
- Oct. 01, 2016 - Nov. 30, 2021 **Associate Professor of Building Physics and Energy Systems (ING-IND/11)**
 "G. d'Annunzio" University of Chieti-Pescara (Italy)
 Department of Engineering and Geology (INGEO)
 42, Viale Pindaro, 65127, Pescara (Italy)
- Nov. 01, 2012 - Sep. 30, 2016 **Assistant Professor of Building Physics and Energy Systems (ING-IND/11)**
 "G. d'Annunzio" University of Chieti-Pescara (Italy)
 Department of Engineering and Geology (INGEO)
 42, Viale Pindaro, 65127, Pescara (Italy)
- Dec. 21, 2005 - Oct. 31, 2012 **Technical Officer**
 Polytechnic University of Marche (Italy)
 Department of Industrial Engineering and Mathematical Sciences (DIISM)
 01, Via Breccie Bianche, 60100, Ancona (Italy)
- Nov. 01, 2001 - Oct. 31, 2005 **Postdoctoral Research Fellow in Applied Thermodynamics and Heat Transfer (ING-IND/10)**
 Polytechnic University of Marche (Italy)
 Department of Industrial Engineering and Mathematical Sciences (DIISM)
 01, Via Breccie Bianche, 60100, Ancona (Italy)

EDUCATION AND TRAINING

- Nov. 01, 1998 - Oct. 31, 2001 **Ph.D. in Applied Thermodynamics and Heat Transfer**
 Polytechnic University of Marche (Italy)
 Department of Industrial Engineering and Mathematical Sciences (DIISM)
 ▪ Dissertation defended on 04 December 2001
- November 1998 **Professional Engineer Qualification**
 Polytechnic University of Marche (Italy)
- Sep. 1992- Nov. 1998 **M.Sc. in Mechanical Engineering**
 Polytechnic University of Marche (Italy)

- Thesis defended on 04 November 1998, final grade 110/110 *cum laude*

ACCADEMIC COURSES

A.Y. 2025 - 2026	<p>HVAC Systems in Buildings (AI620 Building Engineering LM24 - 801M - 6 CFU) Acoustics and Lighting (AI716 Building Engineering L23 - 801T - 6 CFU AI619 Architecture L4 - 700M - 6 CFU) Renewable Energies for Buildings (AI778 - Building Engineering LM24 - 801M - 6 CFU) Applied Acoustics and Lighting in Cultural Heritage (CH003 - Engineering and Management of Cultural Heritage LM24 - 801M - 2 CFU) Università "G. d'Annunzio" di Chieti-Pescara (Italia)</p>
A.Y. 2024 - 2025	<p>HVAC Systems in Buildings (AI620 Building Engineering LM24 - 801M - 6 CFU) Acoustics and Lighting (AI716 Building Engineering L23 - 801T - 6 CFU AI619 Architecture L4 - 700M - 6 CFU) Renewable Energies for Buildings (AI778 - Building Engineering LM24 - 801M - 6 CFU) Applied Acoustics and Lighting in Cultural Heritage (CH003 - Engineering and Management of Cultural Heritage LM24 - 801M - 6 CFU) Università "G. d'Annunzio" di Chieti-Pescara (Italia)</p>
A.Y. 2023 - 2024	<p>HVAC Systems in Buildings (AI620 Building Engineering LM24 - 801M - 6 CFU) Acoustics and Lighting (AI716 Building Engineering L23 - 801T - 6 CFU AI619 Architecture L4 - 700M - 6 CFU) Renewable Energies for Buildings (AI778 - Building Engineering LM24 - 801M - 6 CFU) Università "G. d'Annunzio" di Chieti-Pescara (Italia)</p>
A.Y. 2022 - 2023	<p>HVAC for Buildings (Planned for the second quarter of 2023) (AI620 Building Engineering LM24 - 801M - 6 CFU) Acoustics and Lighting (AI716 Building Engineering L23 801T - 6 CFU; AI619 - Architecture LM4 - 700M - 6/12 CFU) Renewable Energies for Buildings (AI778 - Building Engineering LM24 - 801M - 6 CFU)</p>
A.Y. 2021 - 2022	<p>HVAC for Buildings (AI620 Building Engineering LM24 - 801M - 6 CFU) Acoustics and Lighting (AI716 Building Engineering L23 801T - 6 CFU; AI619 - Architecture LM4 - 700M - 6/12 CFU) Renewable Energies for Buildings (AI778 - Building Engineering LM24 - 801M - 6 CFU) University "G. d'Annunzio" of Chieti-Pescara (Italia)</p>
A.Y. 2020 - 2021	<p>HVAC for Buildings (AI620 Building Engineering LM24 - 801M - 6 CFU) Acoustic and Lighting (AI716 Building Engineering L23 801T - 6 CFU; AI619 - Architecture LM4 - 700M - 6/12 CFU) Applied Thermodynamics and Heat Transfer (AI619 - Architecture LM4 - 700M - 6/12 CFU) University "G. d'Annunzio" of Chieti-Pescara (Italia)</p>
A.Y. 2019 - 2020	<p>Applied Thermodynamics and Heat Transfer (AI619 - Building Engineering L23 801T - 6 CFU; AI619 - Architecture LM4 - 700M - 6/12 CFU) Acoustic and Lighting (AI716 Building Engineering L23 801T - 6 CFU; AI619 - Architecture LM4 - 700M - 6/12 CFU) University "G. d'Annunzio" of Chieti-Pescara (Italia)</p>
A.Y. 2018 - 2019	<p>Applied Thermodynamics and Heat Transfer (AI619 - Building Engineering L23 801T - 6 CFU; AI619 - Architecture LM4 - 700M - 6/12 CFU) Acoustic and Lighting (AI716 Building Engineering L23 801T - 6 CFU; AI619 - Architecture LM4 - 700M - 6/12 CFU) University "G. d'Annunzio" of Chieti-Pescara (Italia)</p>
A.Y. 2017 - 2018	<p>Applied Thermodynamics and Heat Transfer (AI619 - Building Engineering L23 801T - 6 CFU AI619 - Architecture LM4 - 700M - 6/12 CFU) Acoustic and Lighting (AI716 Building Engineering L23 801T - 6 CFU; AI619 - Architecture LM4 - 700M - 6/12 CFU)</p>

- "G. d'Annunzio" University of Chieti-Pescara (Italy)
 A.Y. 2016 - 2017 **Applied Thermodynamics and Heat Transfer**
 (AI619 - Building Engineering L23 801T - 6 CFU; AI619 - Architecture LM4 - 700M - 6/12 CFU)
Acoustic and Lighting
 (AI716 - Building Engineering L23 801T - 6 CFU; AI619 - Architecture LM4 - 700M - 6/12 CFU)
 "G. d'Annunzio" University of Chieti-Pescara (Italy)
 A.Y. 2015 - 2016 **Applied Thermodynamics and Heat Transfer**
 (AI619 - Building Engineering L23 - 801T - 6 CFU)
 "G. d'Annunzio" University of Chieti-Pescara (Italy)
 A.Y. 2014 - 2015 **Applied Thermodynamics and Heat Transfer**
 (AI619 - Building Engineering L23 - 801T - 6 CFU)
Acoustic and Lighting
 (AI209 - Architecture LM4 - 700M - 4 CFU)
Environmental Applied Physics
 (TP22B5B - TPALL - L/SNT4 - L637 - 5 CFU)
 "G. d'Annunzio" University of Chieti-Pescara (Italy)
 A.Y. 2013 - 2014 **Applied Thermodynamics and Heat Transfer**
 (AI080 - Architecture LM4 - 700M - 8 CFU)
Environmental Applied Physics
 (TP22B5B - TPALL - L/SNT4 - L637 - 5 CFU)
 "G. d'Annunzio" University of Chieti-Pescara (Italy)
 A.Y. 2012 - 2013 **Applied Thermodynamics and Heat Transfer**
 AI080 - Architecture LM4 - 700M - 8 CFU)
Renewable Energies Production
 (AI456 - Environment and Land Planning - L21 900T - 4 CFU)
 "G. d'Annunzio" University of Chieti-Pescara (Italy)

ACADEMIC ROLES

- Nov. 04, 2024 - Present **Member of the Academic Senate (2024-2027)**
 "G. d'Annunzio" University of Chieti-Pescara
 Nov. 01, 2023 - Present **Director, Department of Engineering and Geology**
 "G. d'Annunzio" University of Chieti-Pescara
 Jan 12, 2021 to Oct. 31, 2023 **Chairman of the Master's Degree in Building Engineering LM24**
 triennium 20-21 to 22-23 "G. d'Annunzio" University of Chieti-Pescara (Italy)
 Nov. 29, 2019 to Oct. 31, 2023 **Chairman of the Bachelor's Degree in Building Engineering L23**
 triennium 19-20 to 21-22 "G. d'Annunzio" University of Chieti-Pescara (Italy)
 Sep. 18, 2019 - Oct. 31, 2023 **Member of the "Research Steering Committee"**
 "G. d'Annunzio" University of Chieti-Pescara (Italy)
 Apr. 15, 2019 - Oct. 31, 2023 **Representative of Energy Working Group for the "Italian University Network for Sustainable Development (RUS)"**
 "G. d'Annunzio" University of Chieti-Pescara (Italy)
 Apr. 10, 2019 - Oct. 31, 2023 **Member of the "Committee for Research Evaluation and Technological Transfer (CVRTT)"**
 "G. d'Annunzio" University of Chieti-Pescara (Italy)

COMMITTEES

- Ph.D. Program 2025
 A.Y. 2025/26 - 2027/28 **Member of the Ph.D. Program Committee in SCIENCE AND TECHNOLOGY FOR SUSTAINABLE DEVELOPMENT - DOT20A93TY, Coordinator Prof. DI CARLO Piero, "G. d'Annunzio" University of Chieti-Pescara (Italy), subscription from 29/05/2025**

- Ph.D. Program 2024
A.Y. 2024/25 - 2026/27
- Member of the Ph.D. Program Committee in SCIENCE AND TECHNOLOGY FOR SUSTAINABLE DEVELOPMENT - DOT20A93TY, Coordinator Prof. DI CARLO Piero, Ateneo: "G. d'Annunzio" University of Chieti-Pescara (Italy), subscription from 30/05/2023
- Member of the Ph.D. Program Committee in DEFENSE AGAINST NATURAL RISKS AND ECOLOGICAL TRANSITION OF BUILT ENVIRONMENT - DIFESA DAI RISCHI NATURALI E TRANSIZIONE ECOLOGICA DEL COSTRUITO - DOT22N283M, Coordinator Prof. CUOMO Massimo: University of Catania, subscription from 30/05/2023
- Ph.D. Program 2023
A.Y. 2023/24 - 2025/26
- Member of the Ph.D. Program Committee in SCIENCE AND TECHNOLOGY FOR SUSTAINABLE DEVELOPMENT - DOT20A93TY, Coordinator Prof. DI CARLO Piero, Ateneo: "G. d'Annunzio" University of Chieti-Pescara (Italy), subscription from 18/05/2023
- Member of the Ph.D. Program Committee in DEFENSE AGAINST NATURAL RISKS AND ECOLOGICAL TRANSITION OF BUILT ENVIRONMENT - DIFESA DAI RISCHI NATURALI E TRANSIZIONE ECOLOGICA DEL COSTRUITO - DOT22N283M, Coordinator Prof. CUOMO Massimo: University of Catania, subscription from 8/05/2023
- Ph.D. Program 2022
A.Y. 2022/23 - 2024/25
- Member of the Ph.D. Program Committee in SCIENCE AND TECHNOLOGY FOR SUSTAINABLE DEVELOPMENT - DOT20A93TY, Coordinator Prof. DI CARLO Piero, "G. d'Annunzio" University of Chieti-Pescara (Italy), subscription from 13/05/2022
- Member of the Ph.D. Program Committee in DEFENSE AGAINST NATURAL RISKS AND ECOLOGICAL TRANSITION OF BUILT ENVIRONMENT - DIFESA DAI RISCHI NATURALI E TRANSIZIONE ECOLOGICA DEL COSTRUITO - DOT22N283M, Coordinator Prof. CUOMO Massimo, Ateneo: University of Catania (Italy), subscription from 19/05/2022
- Ph.D. Program 2021
A.Y. 2021/22 - 2023/24
- Member of the Ph.D. Program Committee in SCIENCE AND TECHNOLOGY FOR SUSTAINABLE DEVELOPMENT - DOT20A93TY, Coordinator Prof. DI CARLO Piero, Ateneo: "G. d'Annunzio" University of Chieti-Pescara (Italy), subscription from 12/04/2021
- Ph.D. Program 2020
A.Y. 2020/21 - 2022/23
- Member of the Ph.D. Program Committee in SCIENCE AND TECHNOLOGY FOR SUSTAINABLE DEVELOPMENT - DOT20A93TY, Coordinator Prof. DI CARLO Piero, "G. d'Annunzio" University of Chieti-Pescara (Italy), subscription from 14/04/2020
- Ph.D. Program 2019
A.Y. 2019/20 - 2021/22
- Member of the Ph.D. Program Committee in SISTEMI TERRESTRI E AMBIENTI COSTRUITI - EARTH SYSTEMS AND BUILT ENVIRONMENTS - DOT1353941, Coordinator Prof. RAFFI Isabella, "G. d'Annunzio" University of Chieti-Pescara (Italy), subscription from 13/03/2019
- Ph.D. Program 2018
A.Y. 2018/19. - 2020/21
- Member of the Ph.D. Program Committee in SISTEMI TERRESTRI E AMBIENTI COSTRUITI - EARTH SYSTEMS AND BUILT ENVIRONMENTS - DOT1353941, Coordinator Prof. RAFFI Isabella, "G. d'Annunzio" University of Chieti-Pescara (Italy), subscription from 27/02/2018
- Ph.D. Program 2017
A.Y. 2017/18 - 2019/20
- Member of the Ph.D. Program Committee in SISTEMI TERRESTRI E AMBIENTI COSTRUITI - EARTH SYSTEMS AND BUILT ENVIRONMENTS - DOT1353941, Coordinator Prof. RAFFI Isabella, "G. d'Annunzio" University of Chieti-Pescara (Italy), subscription from 17/05/2017

EDITORIAL BOARDS

-
- 2020 - present
- Section Board Member of "Applied Sciences" MDPI Journal
- 2025 - present
- Guest Editor of the Special Issue in "Urban Soundscape and Sustainability: Designing Cities That Speak" - Open Access Journal "Urban Science" by MDPI
- 2025 - present
- Guest Editor of the Special Issue in "Sustainability in Energy and Buildings: Future Perspectives and Challenges: 2nd Edition" - Open Access Journal "Urban Science" by MDPI
- 2022 - 2025
- Guest Editor of the Special Issue in "Sustainability in Energy and Buildings: Future Perspectives and Challenges" - Open Access Journal "Applied Sciences" by MDPI
- 2020 - present
- Guest Editor of the Special Issue in "Wind Energy: Current Challenges and Future Perspectives" in the Open Access Journal "Applied Sciences" by MDPI
- 2020 - 2022
- Guest Editor of the Special Issue in " Buildings Condition under Climate Change Effects" Applied Sciences" by MDPI
- 2019 - 2020
- Guest Editor of the Special Issue in " Thermophysics and Heat Transfer "Applied Sciences" by MDPI

2019 - 2020

Guest Editor of the Special Issue in "Impact Assessment of Climate Change on Buildings" in the Open Access Journal "Applied Sciences" by MDPI

RESEARCH PROJECTS

Feb. 04, 2025 - Feb. 04, 2027

2025-2027: **Local Unit Leader**, PRIN 2022 Project "ELECTRA - Enhanced Liquid Cooling for Electric Traction Systems in Recreational Aviation"

Oct. 01, 2024 - Mar. 31, 2026

2024-2026: **Participant**, Horizon Project "Lip3D - Living Forever the Past through a 3Digital World"

Nov. 30, 2023 - Nov. 29, 2026

2023-2026: **Participant**, PRIN 2022 PNRR Project "MUD-MADE - Multi-objective Optimization of Digitally Manufactured Earth Building Components"

Jan. 01, 2023 - Dec. 31, 2026

2023-2026: **Local Unit Leader**, PNC Project "NecessARIA - Efficient Air Exchange Strategies for Health in School Buildings"

Jan. 01, 2023 - Jun. 30, 2026

2023-2026: **Participant**, PON Project "GENESIS - Seismic Risk Management for the Tourism Enhancement of Southern Italy Historic Centers"

Jan. 01, 2021 - Dec. 31, 2023

2021-2023: **Local Unit Leader**, PON Project "ENERGIDRICA" - National Research and Innovation Program

Participation in projects: "3D DAMper", "ReLUIIS", "POWERED - Offshore Wind Energy", "Generator - Energy Efficiency", PRIN 2007, 2005, 2002, 1999

ADDITIONAL INFORMATION

Certifications

- **3° Level RINA operator in "Acoustics and Vibrations"** (September 2016) Level 3 non-destructive testing operator in accordance with UNI EN ISO 9712 last edition and RINA RC / C.14 regulation. In the Acoustic and Vibration Method. Validity from 06/06/2016 to 06/06/2021
- **"Certified Engineer in Environmental Acoustics"** in accordance with paragraphs 6 and 7, Article 2 of Law 26/10/1995 n. 447 by decree of the Manager of P.F. Protection of the Environmental Resources of the Marche Region n. 88 of 10/07/2015

PERSONAL SKILLS

Native speaker

Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B1	B1	B1	B1
German	A2	A2	A1	A1	A2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
Common European Framework of Reference for Languages

PUBLICATIONS

Author of 71 indexed journal papers with an H-index of 19 and over 1,266 citations.

2025

- **Di Loreto, S., Montelpare, S.** (2025). "A two-stage architecture for soundscape classification and preservation". *Scientific Reports*, 15(1). [Articolo] DOI: 10.1038/s41598-025-22819-0
- **Loreto, S. D., Sangiorgio, V., Bagagli, M., Montelpare, S.** (2025). "Multi-criteria approach for the energy and environmental impact evaluation in urban districts in the central Mediterranean area". *Sustainable Cities and Society*, 120. [Articolo] DOI: 10.1016/j.scs.2025.106179
- **Di Loreto, S., D'Ignazio, M., Guglielmi, L., Montelpare, S.** (2025). "Applying 4E Cognition to Acoustic Design: A Theoretical Framework for University Learning Environments". *Architecture*, 5(3). [Articolo] DOI: 10.3390/architecture5030070

- **Loreto, S. D., Ricciutelli, A., Montelpare, S.** (2025). "A prototype methodology for acoustic heritage preservation: integrating H-BIM and legal frameworks for the protection of intangible cultural assets". *Applied Acoustics*, 236. [Articolo] DOI: 10.1016/j.apacoust.2025.110759
- **Lops, C., D'Agostino, V., Di Loreto, S., Montelpare, S.** (2025). "Towards Energy Efficiency in Existing Buildings: A Dynamic Simulation Framework for Analysing and Reducing Climate Change Impacts". *Sustainability (Switzerland)*, 17(14). [Articolo] DOI: 10.3390/su17146485
- **Valentini, G., Di Loreto, S., Angrilli, M., Montelpare, S.** (2025). "The relationship between sounds and cities: evaluation of sound quality in the urban environment". *Rivista Italiana Di Acustica*, 49(1), 59-69. [Articolo] DOI: 10.3280/ria1-2025oa19446
- **Loreto, S. D., Ricciutelli, A., Serpilli, F., Lori, V., Montelpare, S.** (2025). "Advanced digitalization of acoustic footprints in historical theatres for preservation and reconstruction". *Building Acoustics*, 32(2), 259-277. [Articolo] DOI: 10.1177/1351010X251327934
- **Di Loreto, S., Falone, M., Pierantozzi, M., Montelpare, S.** (2025). "Field Measurements of Indoor Environmental Quality in School Buildings Post-COVID-19: Systematic Review". *Applied Sciences (Switzerland)*, 15(10). [Review] DOI: 10.3390/app15105692
- **Lops, C., Montelpare, S.** (2025). "Sustainability in Energy and Buildings: Future Perspectives and Challenges". *Applied Sciences (Switzerland)*, 15(21). [Editoriale] DOI: 10.3390/app152111401
- **D'Ignazio, M., Lops, C., Pierantozzi, M., Montelpare, S.** (2025). "Thermal Comfort Assessment and Cognitive Performance Implications in Educational Environments: A Case Study from Central Italy". *Lecture Notes in Civil Engineering*, 765, 285-306. [Conference Paper] DOI: 10.1007/978-3-032-06978-8_15
- **Di Loreto, S., Ricciutelli, A., Guglielmi, L., Montelpare, S.** (2025). "The Impact of Classroom Acoustics on Student Well-Being and Noise Disturbance at the University of Pescara, Italy". *Building Simulation Applications*, 241-248. [Conference Paper] DOI: 10.13124/9788860462022_31
- **Guglielmi, L., Di Loreto, S., Lops, C., Falone, M., Montelpare, S.** (2025). "Natural vs. Mechanical Ventilation in Schools: A Numerical-Experimental Study for Energy-Efficient Design". *Journal of Physics: Conference Series*, 3143(1). [Conference Paper] DOI: 10.1088/1742-6596/3143/1/012041
- **Aracne, M., et al., Montelpare, S.** (2025). "Comparing Deep Learning Approaches for Weather Forecasting: Insights from the PRECEDE Project". *CEUR Workshop Proceedings*, 3946. [Conference Paper]

2024

- **Lops, C., Serpilli, F., D'Alessandro, V., Montelpare, S.** (2024). "Climate Change and Building Renovation: The Impact of Historical, Current, and Future Climatic Files on a School in Central Italy". *Applied Sciences (Switzerland)*, 14(19). [Articolo] DOI: 10.3390/app14199067
- **Caroprese, L., Pierantozzi, M., Lops, C., Montelpare, S.** (2024). "DL2F: A Deep Learning model for the Local Forecasting of renewable sources". *Computers and Industrial Engineering*, 187. [Articolo] DOI: 10.1016/j.cie.2023.109785
- **Ricciutelli, A., Lori, V., Lops, C., Serpilli, F., Montelpare, S.** (2024). "Churches Acoustics as Intangible Cultural Heritage: Experimental and Numerical Characterization of the Temple of San Biagio". *International Journal of Architectural Heritage*, 18(7), 1117-1130. [Articolo] DOI: 10.1080/15583058.2023.2214510
- **Fraleoni-Morgera, A., Afshani, M., Montelpare, S., Lops, C.** (2024). "Sustainable Micro- and Nanocomposites for Thermal Insulation in Buildings". *Advanced Engineering Materials*, 26(3). [Review] DOI: 10.1002/adem.202301064
- **Di Loreto, S., Ricciutelli, A., Lori, V., Serpilli, F., Montelpare, S.** (2024). "Pattern recognition and neural networks for acoustic monitoring and conservation of the historic port of Ancona". *CEUR Workshop Proceedings*, 3838. [Conference Paper]
- **Montelpare, S., Pierantozzi, M., Di Loreto, S., Ricciutelli, A., Ferrara, M.** (2024). "Geometrical Acoustics in Cultural Heritage Conservation and Promotion: Digitalization of the Acoustic Characteristics". *Communications in Computer and Information Science*, 1937, 292-303. [Conference Paper] DOI: 10.1007/978-3-031-48930-3_22

- **Serpilli, F., Lops, C., Pierantozzi, M., Montelpare, S.** (2024). "Energy Performance and Thermal Comfort Assessment of an Educational Building in Northern Italy: The Importance of Climatic Files in Energy Simulations". *E3S Web of Conferences*, 523. [Conference Paper] DOI: 10.1051/e3sconf/202452304004
- **Dattola, F., et al., Montelpare, S.** (2024). "PRECEDE: Climate and Energy Forecasts to Support Energy Communities with Deep Learning Models". *Proceedings - 2024 IEEE International Conference on Big Data*, 4650-4658. [Conference Paper] DOI: 10.1109/BigData62323.2024.10825163

2023

- **Lops, C., Di Loreto, S., Pierantozzi, M., Montelpare, S.** (2023). "Double-Skin Façades for Building Retrofitting and Climate Change: A Case Study in Central Italy". *Applied Sciences (Switzerland)*, 13(13). [Articolo] DOI: 10.3390/app13137629
- **Loreto, S. D., Lori, V., Serpilli, F., Lops, C., Ricciutelli, A., Montelpare, S.** (2023). "'Great food, but the noise?': Relationship between perceived sound quality survey and non acoustical factors in one hotel restaurant in Italy". *Building Acoustics*, 30(4), 425-443. [Articolo] DOI: 10.1177/1351010X231191439
- **Lops, C., Pierantozzi, M., Caroprese, L., Montelpare, S.** (2023). "A Deep Learning Approach for Climate Parameter Estimations and Renewable Energy Sources". *Proceedings - 2023 IEEE International Conference on Big Data*, 3942-3951. [Conference Paper] DOI: 10.1109/BigData59044.2023.10386617

2022

- **Amelio, A., Montelpare, S., Ursino, D.** (2022). "1st International Virtual Conference on Visual Pattern Extraction and Recognition for Cultural Heritage Understanding (VI-PERC 2022)". *CEUR Workshop Proceedings*, 3266. [Conference Paper]

2021

- **D'alessandro, V., Montelpare, S., Ricci, R.** (2021). "Assessment of a Spalart-Allmaras Model Coupled with Local Correlation Based Transition Approaches for Wind Turbine Airfoils". *Applied Sciences (Switzerland)*, 11(4), 1-17. [Articolo] DOI: 10.3390/app11041872
- **Lops, C., Germano, N., Ricciutelli, A., D'Alessandro, V., Montelpare, S.** (2021). "Naturally Ventilated Double Skin Façades: Comparisons Between Different CFD Models". *Mathematical Modelling of Engineering Problems*, 8(6), 837-846. [Articolo] DOI: 10.18280/mmep.080601
- **Silvero, F., Goiris, M., Montelpare, S., Rodrigues, F.** (2021). "Built Environment Resilience to Face Climate Change Effects In Paraguay's Social Housing". *Smart Innovation, Systems and Technologies*, 203, 219-230. [Conference Paper] DOI: 10.1007/978-981-15-8783-2_18
- **Stamponi, E., Lattanzi, N., Giorgini, F., Serpilli, F., Montelpare, S., Moretti, E.** (2021). "Energy analysis, numerical simulations and intervention proposals for a NZEB industrial building: The Loccioni Leaf Lab case study". *E3S Web of Conferences*, 238. [Conference Paper] DOI: 10.1051/e3sconf/202123806004

2020

- **Rizzo, F., Zazzini, P., Montelpare, S., Ricciutelli, A.** (2020). "Investigation of wind induced vibration and acoustic performance interactions for a flexible roof through multiphysics approach". *Journal of Building Performance Simulation*, 13(5), 555-582. [Articolo] DOI: 10.1080/19401493.2020.1809015
- **Rizzo, F., D'Alessandro, V., Montelpare, S., Giannichele, L.** (2020). "Computational study of a bluff body aerodynamics: Impact of the laminar-to-turbulent transition modelling." *International Journal of Mechanical Sciences*, 178. [Articolo] DOI: 10.1016/j.ijmecsci.2020.105620
- **Germano, N., Lops, C., Montelpare, S., Camata, G., Ricci, R.** (2020). "Determination of Wind Pattern Inside an Urban Area Through a Mesoscale-Microscale Approach". *Mathematical Modelling of Engineering Problems*, 7(4), 515-519. [Articolo] DOI: 10.18280/MMEP.070402

- **Silvero, F., Rodrigues, F., Montelpare, S.** (2020). "Energy efficiency policies to face buildings' climate change effects in Paraguay". *Applied Sciences (Switzerland)*, 10(11). [Review] DOI: 10.3390/app10113979

2019

- **Silvero, F., Lops, C., Montelpare, S., Rodrigues, F.** (2019). "Generation and assessment of local climatic data from numerical meteorological codes for calibration of building energy models". *Energy and Buildings*, 188-189, 25-45. [Articolo] DOI: 10.1016/j.enbuild.2019.02.001
- **Silvero, F., Lops, C., Montelpare, S., Rodrigues, F.** (2019). "Impact assessment of climate change on buildings in Paraguay—Overheating risk under different future climate scenarios". *Building Simulation*, 12(6), 943-960. [Articolo] DOI: 10.1007/s12273-019-0532-6
- **Silvero, F., Rodrigues, F., Montelpare, S.** (2019). "A parametric study and performance evaluation of energy retrofit solutions for buildings located in the hot-humid climate of Paraguay—sensitivity analysis". *Energies*, 12(3). [Articolo] DOI: 10.3390/en12030427
- **Silvero, F., Rodrigues, F., Montelpare, S., Spacone, E., Varum, H.** (2019). "The path towards buildings energy efficiency in South American countries". *Sustainable Cities and Society*, 44, 646-665. [Review] DOI: 10.1016/j.scs.2018.10.028
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According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV

Pescara, 07/03/26

Sergio Montelpare