

Curriculum Vitae  
**Salvatore Carlucci**

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## Contact information

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Work address	Università degli Studi dell'Insubria, via JH Dunant 3, 21100, Varese, Italy
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## Personal information

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Date of birth	23/06/1980
Place of birth	Martina Franca (TA), Italy
Citizenship	Italian
Marital status	Living common law
Orcid ID	0000-0002-4239-3039
SCOPUS ID	55331189400
ResearcherID	AAA-5575-2020

## Bibliometrics

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Google Scholar	Documents: 130; Citations: 6953; <i>h</i> -index: 38; accessed on 27/01/2025
SCOPUS	Documents: 89; Citations: 4605; <i>h</i> -index: 32; accessed on 27/01/2025

## Principal fields of interest

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Building physics, occupant-centric building design and operation, indoor environmental quality (thermal, visual and acoustic comfort, and indoor air quality), climate change and microclimate simulation, high-performance buildings and smart building technologies, and building performance simulation and optimisation.

## Employment experience

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### Current positions

- 07/2024–Present **Tenured full professor**, *Università degli Studi dell'Insubria*, Varese, Italy.  
10/2021–Present **Collaborateur de l'Université de Liège**, University of Liege, Belgium.

### Employment history

- 12/2021–06/2024 **Chair of the Admissions Committee**, The Cyprus Institute, Nicosia, Cyprus.  
01/2021–06/2024 **Doctoral course responsible**, EAS 518: *Energy and the Built Environment*, The Cyprus Institute, Nicosia, Cyprus.  
01/2021–06/2024 **Doctoral course lecturer**, EAS 500: *Fundamentals, Frontiers, and Methodologies in Environmental Sciences, Renewable Energy and Sustainable Built Environment*, The Cyprus Institute, Nicosia, Cyprus.  
12/2019–12/2023 **Coordinator** of the Task Force on “*EMME Climate Change Initiative: Built Environment*”, The Cyprus Institute, Nicosia, Cyprus.  
11/2019–06/2024 **Vice-Chair of the Disciplinary Committee**, The Cyprus Institute, Nicosia, Cyprus.  
10/2019–06/2024 **Tenured full professor**, The Cyprus Institute, Energy, Environment and Water Research Center (EEWRC), Nicosia, Cyprus.  
06/2018–12/2023 **Subtask leader**. IEA-EBC Annex 79 *Occupant-Centric Building Design and Operation*, International Energy Agency – Energy in Buildings and Communities Programme, The Cyprus Institute.  
02/2020–12/2021 **Adjunct professor (10% FTE)**, Norwegian University of Science and Technology (NTNU), Department of Civil and Environmental Engineering, Trondheim, Norway.  
11/2019–10/2021 **Vice-Chair of the Colloquia and Seminars Committee**, The Cyprus Institute, Nicosia, Cyprus.  
12/2016–10/2019 **Tenured full professor**, NTNU, Department of Civil and Environmental Engineering, Trondheim, Norway.  
05/2017–10/2019 **Member of the Steering committee of the “ZEB Flexible Lab”**. This group managed the design and construction of the new NTNU’s ZEB Flexible Lab.  
01/2019–10/2019 **Leader** of the Research thrust in Engineering (*Forskerlinje i ingeniørvitenskap* in Norwegian, a study programme dedicated to talented and exceptionally motivated students) at the Department of Civil and Environmental Engineering, NTNU.  
01/2016–10/2019 **Course responsible**, TBA4166–Building Performance Simulation, NTNU, Department of Civil and Environmental Engineering, Trondheim, Norway.  
09/2016–08/2018 **Collaborateur de l'Université de Liège**, University of Liege, Belgium.  
08/08/17–29/06/18 **Paternity leave**, absence 80%.  
08/2015–12/2016 **Leader of the NTNU’s strategic plan area 15: Energy efficient and functional buildings**, NTNU, Trondheim, Norway.  
10/2014–11/2016 **Qualification fellow**, NTNU, Department of Civil and Transport Engineering, Trondheim, Norway.  
03/2014–10/2014 **Adjunct professor**, Thermodynamics and Building physics, Politecnico di Milano, School of Building engineering and Architecture, Milan, Italy.  
08/2013–10/2014 **Research fellow**, Politecnico di Milano, Energy Department, Milan, Italy.  
03/2007–10/2014 **Lecturer**, Politecnico di Milano, Energy Department, RIDEF Energy for Kyoto–Master in Renewable Energy, Decentralization and Energy Efficiency, Milan, Italy.  
02/2007–10/2014 **Professional building engineer**, Carlucci+Partners, Milan, Italy.

- 02/2012–07/2013 **Research fellow**, Politecnico di Milano, Energy Department, Milan, Italy.
- 10/2007–07/2008 **Adjunct professor**, Methods for the environmental control, Politecnico di Milano, Faculty of Architecture and Society, Milan, Italy.
- 03/2007–09/2007 **Energy consultant**, Energie sas, Milan, Italy.
- 01/2007–01/2009 **Research assistant**, Politecnico di Milano, Energy Department, Milan, Italy.
- 09/2006–12/2006 **Junior researcher**, Politecnico di Milano, Energy Department, end–use Efficiency Research Group, Milan, Italy.
- 03/2006–08/2006 **Energy analyst**, Politecnico di Milano, Energy Department, end–use Efficiency Research Group, Milan, Italy.

## Memberships

- 22/07/2020 **Fellow of the World Society of Sustainable Energy Technologies (WSSET)**, “Due to your outstanding contributions to science and technology, your nomination was strongly supported by the members of the Executive Committee of WSSET” (*communication from the WSSET President Prof. Saffa Riffat, University of Nottingham, 22/7/2020*).
- 10/2014–Present **International Building Performance Simulation Association**, Nordic–Chapter (Nordic–IBPSA).
- 01/2013–Present **International Building Performance Simulation Association**, IT–Chapter (ITA–IBPSA).
- 11/2012–Present **International Association of Engineering Technology (IAET)**.
- 04/2015–10/2019 **The Norwegian Society of Graduate Technical and Scientific Professionals (Tekna)**.
- 10/2012–10/2014 **Italian Association of Air–Conditioning, Heating and Refrigeration (Associazione Italiana Condizionamento dell’Aria Riscaldamento Refrigerazione–AiCARR)**.

## Education

- 01/2016–11/2016 **Educational program for new academic staff (PEDUP)**, NTNU, Trondheim, Norway  
The course provides the basic concepts, models and theories that contribute to the understanding of what learning is, and how the students’ learning can be facilitated. Considerable emphasis is placed on developing participants’ understanding of relationships between teaching, learning and assessment, so that they will be better able to plan, execute and document the students’ learning outcomes of their teaching activities.
- 23/03/2012 **Ph.D. in Building engineering**, Politecnico di Milano, Building Environment Science and Technology Department, Milan, Italy.  
Title: An automated optimization process to support the design of comfortable net zero energy buildings  
Supervisor: Assoc. Prof. Lorenzo Pagliano, Politecnico di Milano, Italy  
Tutor: Assoc. Prof. Gabriele Masera, Politecnico di Milano, Italy  
Opponents: Prof. Edward Arens, University of California, Berkeley (CA), USA  
Prof. Mattheos Santamouris, University of Athens, Greece  
Final mark: *Summa cum laude*
- 05/2008 **Professional qualification to the energy certification practice in the Lombardy Region**, Infoplanet, Pavia, Italy.
- 02/2007 **Professional qualification to the engineering practice**, Politecnico di Milano, Milan, Italy.  
– Industrial Engineering (Ingegneria Industriale)  
– Information Technology Engineering (Ingegneria dell’Informazione)
- 26/07/2005 **M.Sc. in Building engineering (Laurea vecchio ordinamento, Legge 127/97)**, Politecnico di Milano, VI Faculty of Building Engineering/Architecture, Milan, Italy.  
Title: Fire behavior of self–supporting plasterboard ceiling panels (in Italian)  
Supervisor: Assoc. Prof. Paolo Setti, Politecnico di Milano, Italy  
Opponent: Prof. Giuseppe Turchini, Politecnico di Milano, Italy  
Final mark: 100/100 *Summa cum laude*

09/1994–07/1999 **High school degree in scientific major** (Diploma di maturità scientifica), Liceo Scientifico Statale “F. Ribezzo”, Francavilla Fontana (BR), Italy.  
Final mark: 98/100

### *Additional education*

- 15–17/06/2013 **Student**, *Statistics for Comfort, Behaviours and Perceptions in a Changing Climate*, J. and R. Galbraith (University College London), Heriot–Watt University, Edinburg, UK.
- 20–26/06/2011 **Student**, *Net zero energy solar buildings: theory, modeling, and design*, Ph.D. Summer School by Prof. Andreas Athienitis (Concordia University), Concordia University, Montreal, Canada.
- 03/2011–04/2011 **Short-term visiting researcher**, Lawrence Berkeley National Laboratory, Berkeley, CA, USA.

## Scientific activities

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### *List of publications*

#### *Books and contributions in books*

9. Campagna, L.M., Carlucci, F., **Carlucci, S.**, Fiorito, F. (2024). Automatic Optimization-Based Calibration Using Genetic Algorithms: A Case Study of a School Energy Model. In: Littlewood, J.R., Jain, L., Howlett, R.J. (eds) *Sustainability in Energy and Buildings 2023. Smart Innovation, Systems and Technologies*, vol 378. Springer, Singapore, doi: [https://doi.org/10.1007/978-981-99-8501-2\\_62](https://doi.org/10.1007/978-981-99-8501-2_62)
8. **S. Carlucci**, I. Kyprianou, P. Papadopoulos. Part 1: Cypriot case study, Chapter in *Net-Zero and Positive Energy Communities: Best Practice Guidance Based on the ZERO-PLUS Project Experience* (1st ed.). Editors: S. Isaac, I. Meir, G. Pignatta. Routledge, doi: <https://doi.org/10.1201/9781003267171>
7. **S. Carlucci**, M. Hamdy, A. Moazami. Challenges in the Modeling and Simulation of Green Buildings, Chapter in *Handbook of Energy Systems in Green Buildings*, Editors: R. Wang, X. Zhai. Springer, Berlin, Heidelberg, 2018. ISBN: 978–3–319–61463–2
6. M. Schweiker, **S. Carlucci**, R.K. Andersen, B. Dong, W. O’Brien. Occupancy and occupants’ actions, Chapter in *Exploring Occupant Behavior in Buildings—Methods and Challenges*, Editors: A. Wagner, W. O’Brien and B. Dong. Springer, Cham, 2017, 7–38. ISBN: 978–3–319–61463–2
5. **S. Carlucci**, F. Causone, L. Pagliano, M. Pietrobon. Zero–Energy Living Lab, Chapter in *Smart Energy Control Systems for Sustainable Buildings*, Editors: J. Littlewood, C. Spataru, R.J. Howlett, L.C. Jain. *Smart Innovation, Systems and Technologies*, vol. 67. Springer, Cham, 2017, 1–35. ISSN: 2190–3018; ISBN: 978–3319520742;
4. **S. Carlucci**, L. Pagliano, W. O’Brien, K. Kapsis. Comfort considerations in Net ZEBs: theory and design, Chapter in *Modelling, Design, and Optimization of Net–Zero Energy Buildings*, Editors: A. Athienitis and W. O’Brien. Ernst & Sohn, Berlin, 2015, 75–101. ISBN: 978–3433030837
3. S. Attia, M. Hamdy, **S. Carlucci**, L. Pagliano, S. Bucking, A. Hasan. Building Performance Optimisation of Net Zero–Energy Buildings, Chapter in *Modelling, Design, and Optimization of Net–Zero Energy Buildings*, Editors: A. Athienitis and W. O’Brien. Ernst & Sohn, Berlin, 2015, 175–203. ISBN: 978–3433030837
2. L. Pagliano, **S. Carlucci**, G. Cattarin. La riqualificazione energetico ambientale degli edifici, ottimalità in funzione dei costi e zero energia, Chapter in: *Efficienza energetica: governance, strumenti e mercato*, Editor: L. De Paoli. Ediplan Editrice, Milano, 2014, 137–171. ISBN: 978–8896726181

1. **S. Carlucci**. Thermal comfort assessment of buildings, Springer–Verlag, London, 2013. ISBN: 978–8847052376

*Papers Indexed by ISI–Web of Knowledge or SCOPUS*

82. I.A. Campodonico-Avendano, S. Erba, P. Papadopoulos, S. Carlucci, A. Luparelli, A. Ingrosso, G. Tresoldi, M.S. Shahid, F. Wurtz, B. Delinchant, P.M. Leinan, S. Cera, P. Riederer, R. Solli, A. Moazami, M. Aghaei. COLLECTiEF dataset: A high-resolution indoor environmental dataset from European buildings across diverse climates supporting thermal, air-quality, and visual-comfort assessments. *Data in Brief* (2026) 112486, doi: <https://doi.org/10.1016/j.dib.2026.112486>
81. M. Hosseini, P. Papadopoulos, M.S. Shahid, K. Javanroodi, S. Erba, E. Grover-silva, P. Riederer, A. Moazami, F. Wurtz, B. Delinchant, **S. Carlucci**, M. Aghaei, V. Nik. Experimental insights on CIRLEM: Enhancing energy efficiency and flexibility in buildings. *Energy and Buildings* 351 (2026) 116655, doi: <https://doi.org/10.1016/j.enbuild.2025.116655>
80. A. Luparelli, P. Papadopoulos, I. Kyprianou, S. Erba, A. Ingrosso, **S. Carlucci**, Design and validation of thermal comfort questionnaire using exploratory and confirmatory factor analyses. *Energy and Buildings* 337 (2025) 115676, doi: <https://doi.org/10.1016/j.enbuild.2025.115676>.
79. M. Schweiker, R. K. Andersen, **S. Carlucci**, G. Chinazzo, S. Hodder, A. Mahdavi, B. I.Palella, A. L. Pisello, F. R. d’Ambrosio Alfano, M. Vellei. Ten questions concerning the usage of subjective assessment scales in research on indoor environmental quality. *Building and Environment* 283 (2025) 113393, doi: <https://doi.org/10.1016/j.buildenv.2025.113393>.
78. G. Vurro, A. Martilli, P. Hadjinicolaou, **S. Carlucci**, J. Gabeiras Penas, K. Constantinidou, J. Lelieveld. Adaptation and mitigation of outdoor heat stress and building energy consumption during a heat wave in Nicosia, Cyprus. *Urban Climate* 62 (2025) 102507, doi: <https://doi.org/10.1016/j.uclim.2025.102507>
77. M. Favero, **S. Carlucci**, G. Chinazzo J. K. Møller, M. Schweiker, M. Vellei, A. Sonta. Ten questions concerning statistical data analysis in human-centric buildings research: A focus on thermal comfort investigations. *Building and Environment* 264 (2024), 111903, doi: <https://doi.org/10.1016/j.buildenv.2024.111903>
76. G. Vurro, **S. Carlucci**. Contrasting the features and capabilities of urban microclimate simulation tools. *Energy and Buildings* (2024) 114042, doi: <https://doi.org/10.1016/j.enbuild.2024.114042>
75. **S. Carlucci**, M.A. Lange, G. Artopoulos, H.M. Albuflasa, M.-N. Assimakopoulos, S. Attia, E. Azar, E. Cüce, A. Hajiah, I.A. Meir, M. Neophytou, M. Nicolaides, D. Serghides, A. Sprecher, M. Tawalbeh, S. Thravalou, I. Kyprianou. Characteristics of the built environment in the Eastern Mediterranean and Middle East and related energy and climate policies. *Energy Efficiency* 17(52) (2024) 1-27, doi: <https://doi.org/10.1007/s12053-024-10217-w>.
74. F. Banihashemi, M. Weber, B. Dong, **S. Carlucci**, R. Reitberger, W. Lang. Window State or Action Modeling? An Explainable AI Approach in Offices. *Energy and Buildings* 298 (2023) 113546, doi: <https://doi.org/10.1016/j.enbuild.2023.113546>
73. **S. Carlucci**, M. Charalambous, J.N. Tzortzi. Monitoring and performance evaluation of a green wall in a semi-arid Mediterranean climate. *Journal of Building Engineering* 77 (2023) 107421, doi: <https://doi.org/10.1016/j.jobe.2023.107421>
72. I. Kyprianou, D. Serghides, H. Thomson, **S. Carlucci**. Learning from the past: The impacts of economic crises on energy poverty mortality and rural vulnerability. *Energies* 16(13) (2023) 5217, doi: <https://doi.org/10.3390/en16135217>

71. S. Attia, C. Benzidane, R. Rahif, D. Amaripadath, M. Hamdy, P. Holzer, A. Koch, A. Maas, S. Moosberger, S. Petersen, A. Mavrogianni, J.M. Hidalgo-Betanzos, M. Almeida, J. Akander, H. Khosravi Bakhtiari, O. Kinnane, R. Kosonen, **S. Carlucci**. Overheating calculation methods, criteria, and indicators in European regulation for residential buildings. *Energy and Buildings* 292 (2023) 113170, doi: <https://doi.org/10.1016/j.enbuild.2023.113170>
70. I. Kyprianou, G. Artopoulos, A. Bonomolo, T. Brownlee, R. Á. Cachado, C. Camaioni, V. Đokić, R. D'Onofrio, Z. Đukanović, S. Fasola, C. F. Di Giovanni, R. Cocci Grifoni, P. Hadjinicolaou, G. Ilardo, P. Jovanović, S. La Grutta, V. Malizia, G. E. Marchesani, M. F. Ottone, E. Trusiani, J. Živković, **S. Carlucci**. Mitigation and adaptation strategies to offset the impacts of climate change on urban health: A European perspective. *Building and Environment* 238 15(2023) 110226, doi: <https://doi.org/10.1016/j.buildenv.2023.110226>
69. P.M. Papadopoulos, I. Kyprianou, M.-S. Shahid, S. Erba, F. Wurtz, B. Delinchant, P. Riederer, M. Aghaei, **S. Carlucci**. Indoor Thermal Comfort Analysis for Developing Energy-Saving Strategies in Buildings. 2023 International Conference on Future Energy Solutions (FES), 12-14/06/2023, Vaasa, Finland. pp. 1-6, doi: <https://doi.org/10.1109/FES57669.2023.10183297>
68. M. Aghaei, A. Moazami, S. Erba, M. Hosseini, I.A. Campodonico Avendano, M.-S. Shahid, I. Torrens-Galdiz, G. Mastandrea, R. Solli, P. Riederer, G. Bevilacqua, K. Javanroodi, P. Papadopoulos, **S. Carlucci**, V.M. Nik. Collective Intelligence for Energy Flexibility – COLLECTiEF: An EU H2020 Project for Enhancing Energy Efficiency and Flexibility in Existing Buildings. 2023 International Conference on Future Energy Solutions (FES), 12-14/06/2023, Vaasa, Finland. pp. 1-6, doi: <https://doi.org/10.1109/FES57669.2023.10182779>
67. M. Favero, A. Luparelli, **S. Carlucci**. Analysis of subjective thermal comfort data: A statistical point of view. *Energy and Buildings* 281 (2023) 112755, doi: <https://doi.org/10.1016/j.enbuild.2022.112755>
66. P. Santos, E. Lucchi, **S. Carlucci**. Editorial: Global excellence in sustainable design and construction: Europe 2023. *Frontiers in built environment* 9 (2023) 1335915, doi: <https://doi.org/10.3389/fbuil.2023.1335915>
65. G. Chinazzo, R.K. Andersen, E. Azar, V.M. Barthelmes, C. Becchio, L. Belussi, C. Berger, **S. Carlucci**, S.P. Corgnati, S. Crosby, L. Danza, L. de Castro, M. Favero, S. Gauthier, R.T. Hellwig, Q. Jin, J. Kim, M.S. Khanie, D. Khovalyg, C. Lingua, A. Luna-Navarro, A. Mahdavi, C. Miller, I. Mino-Rodriguez, I. Pigliautile, A.L. Pisello, R. Forgiarini Rupp, A.-M. Sadick, F. Salamone, M. Schweiker, M. Syndicus, G. Spigliantini, N. Giraldo Vasquez, D. Vakalis, M. Vellei, S. Wei. Quality criteria for multi-domain studies in the indoor environment: critical review towards research guidelines and recommendations. *Building and Environment* 226 (2022) 109719, doi: <https://doi.org/10.1016/j.buildenv.2022.109719>  
**2022 Best Paper Award from Building and Environment**
64. M. Favero, J.K. Møller, D. Cali, **S. Carlucci**. Human-in-the-loop methods for occupant-centric building design and operation. *Applied Energy* 325 (2022) 119803, doi: <https://doi.org/10.1016/j.apenergy.2022.119803>
63. B. Dong, Y. Liu, W. Mu, Z. Jiang, P. Pandey, T. Hong, B. Olesen, T. Lawrence, Z. O'Neill, C. Andrews, E. Azar, K. Bandurski, R. Bardhan, M. Bavaresco, C. Berger, J. Burry, **S. Carlucci**, K. Chvatal, M. De Simone, S. Erba, N. Gao, L. Graham, C. Grassi, Rishee J., S. Kumar, M. Kjærgaard, S. Korsavi, J. Langevin, Z. Li, A. Lipczynska, A. Mahdavi, J. Malik, M. Marschall, Z. Nagy, L. Neves, L. O'Brien, S. Pan, J. Park, I. Pigliautile, C. Piselli, A. L. Pisello, H. Rafsanjani, R. Rupp, F. Salim, S. Schiavon, J. Schwee, A. Sonta, M. Touchie, A. Wagner, S. Walsh, Z. Wang, D. Webber, D. Yan, P. Zangheri, J. Zhang, X. Zhou, X. Zhou. A Global Building Occupant Behavior Database. *Nature Scientific Data* 9 (2022) 369, doi: <https://doi.org/10.1038/s41597-022-01475-3>

62. M. Vellei, E. Azar, K. Bandurski, C. Berger, **S. Carlucci**, B. Dong, M. Favero, A. Mahdavi, M. Schweiker. Documenting occupant models for building performance simulation: A state-of-the-art. *Journal of Building Performance Simulation* 15(5) (2022) 634-655, doi: <https://doi.org/10.1080/19401493.2022.2061050>
61. B. Dong, **S. Carlucci**, R. Markovich, M. Favero [...]. A Guideline to Document Occupant Behavior Models for Advanced Building Controls. *Building and Environment* 219 (2022) 109195, doi: <https://doi.org/10.1016/j.buildenv.2022.109195>  
**2022 Best Paper Award from Building and Environment**
60. I. Kyprianou, D. Serghides, **S. Carlucci**. Urban vulnerability in the EMME region and Sustainable Development Goals: A new conceptual framework. *Sustainable Cities and Society* 80 (2022) 103763, doi: <https://doi.org/10.1016/j.scs.2022.103763>
59. F. Fiorito, G. Vurro, F. Carlucci, L.M. Campagna, M. De Fino, **S. Carlucci**, F. Fatiguso. Adaptation of users to future climate conditions in naturally ventilated historic buildings: effects on indoor comfort. *Energies* 15(14) (2022) 4984, doi: <https://doi.org/10.3390/en15144984>
58. E. Cuce, P. Mert Cuce, **S. Carlucci**, H. Sen, S. Kumarasamy, M. Hasanuzzaman, R. Daneshazarian. Solar Chimney Power Plants: A Review of Concepts, Design and Performance. *Sustainability* 14 (2022) 1450, doi: <https://doi.org/10.3390/su14031450>
57. I. Kyprianou, **S. Carlucci**, D. Serghides. Energy affordability and trends of mortality in Cyprus. *International Journal of Sustainable Energy* 41(9) (2022) 1303-1322, doi: <https://doi.org/10.1080/14786451.2022.2046581>
56. B. Dong, R. Markovic, **S. Carlucci**. The 1<sup>st</sup> ACM international workshop on big data and machine learning for smart buildings and cities. *BuildSys 2021 - Proceedings of the 2021 ACM International Conference on Systems for Energy-Efficient Built Environments*. 17-18/11/2021. Coimbra, Portugal. 338-340, doi: <https://doi.org/10.1145/3486611.3491139>
55. O.Ø. Smedegård, B. Aas, J. Stene, L. Georges, **S. Carlucci**. Systematic and Data-Driven Literature Review of the Energy and Indoor Environmental Performance of Swimming Facilities. *Energy Efficiency* 14 (2021) 74, doi: <https://doi.org/10.1007/s12053-021-09985-6>
54. O.Ø. Smedegård, T. Jonsson, B. Aas, J. Stene, L. Georges, **S. Carlucci**. The Implementation of Multiple Linear Regression for Swimming Pool Facilities: Case Study at Jøa, Norway. *Energies* 14 (2021) 4825, doi: <https://doi.org/10.3390/en14164825>
53. **S. Carlucci**, S. Erba, L. Pagliano, R. de Dear. ASHRAE Likelihood of Dissatisfaction: a new right-here and right-now thermal comfort index for assessing the Likelihood of Dissatisfaction according to the ASHRAE adaptive comfort model. *Energy and Buildings* 250 (2021) 111286, doi: <https://doi.org/10.1016/j.enbuild.2021.111286>
52. M. Favero, I. Sartori, **S. Carlucci**. Human thermal comfort under dynamic conditions: an experimental study. *Building and Environment* 204 (2021) 108144, doi: <https://doi.org/10.1016/j.buildenv.2021.108144>
51. A.L. Pisello, I. Pigliautile, M. Andargie, C. Berger, P.M. Bluysen, **S. Carlucci**, G. Chinazzo, Z. Deme Belafi, B. Dong, M. Favero, A. Ghahramani, G. Havenith, A. Heydarian, D. Kastner, M. Kong, D. Licina, Y. Liu, A. Luna-Navarro, A. Mahdavi, A. Nocente, M. Schweiker, M. Touchie, M. Vellei, F. Vittori, A. Wagner, A. Wang, S. Wei. Test rooms to study human comfort in buildings: a review of controlled experiments and facilities, *Renewable and Sustainable Energy Reviews* 149 (2021) 111359, doi: <https://doi.org/10.1016/j.rser.2021.111359>

50. **S. Carlucci**, F. Causone, S. Biandrate, M. Ferrando, A. Moazami, S. Erba. On the impact of stochastic modeling of occupant behavior on the energy use of office buildings. *Energy and Buildings* 246 (2021) 111049, doi: <https://doi.org/10.1016/j.enbuild.2021.111049>
49. B. Dong, Y. Liu, H. Fontenot, M. Ouf, M. Osman, A. Chong, S. Qin, F. Salim, H. Xue, D. Yan, Y. Jin, M. Han, X. Zhang, E. Azar, **S. Carlucci**. Occupant Behavior Modeling Methods for Resilient Building Design, Operation and Policy at Urban Scale: A Review. *Applied Energy* 293 (2021) 116856, doi: <https://doi.org/10.1016/j.apenergy.2021.116856>
48. E. Azar, W. O'Brien, **S. Carlucci**, T. Hong, A. Sonta, J. Kim, M. Andargie, T. Abuimara, M. El Asmar, R. Jain, M. Ouf, F. Tahmasebi, J. Zhou. Simulation-aided occupant-centric building design: A critical review of tools, methods, and applications. *Energy and Buildings* 244 (2020) 110292, doi: <https://doi.org/10.1016/j.enbuild.2020.110292>
47. M.B. Kjærgaard, O. Ardakanian, **S. Carlucci**, B. Dong, S.K. Firth, N. Gao, G.M. Huebner, A. Mahdavi, M.S. Rahaman, F.D. Salim, F.C. Sangogboye J.H. Schwee, D. Wolosiuk, Y. Zhu. Current Practices and Infrastructure for Open Data based Research on Occupant-centric Design and Operation of Buildings. *Building and Environment* 177 (2020) 106848, doi: <https://doi.org/10.1016/j.buildenv.2020.106848>
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44. **S. Carlucci**, M. De Simone, S. Firth, M.B. Kjærgaard, R. Markovic, M.S. Rahaman, M.K. Annaqeeb, S. Biandrate, A. Das, J. W. Dziedzic, G. Fajilla, M. Favero, M. Ferrando, J. Hahn, M. Han, Y. Peng, F.D. Salim, A. Schlüter, C. van Treeck. Modeling occupant behavior in buildings. *Building and Environment* 174 (2020) 106768, doi: <https://doi.org/10.1016/j.buildenv.2020.106768>
43. M. Jowkar, H.B. Rijal, J. Brusey, A. Montazami, **S. Carlucci**, T.C. Lansdown. Comfort temperature and preferred adaptive behaviour in various classroom types in the UK higher learning environments. *Energy and Buildings* 211 (2020) 109814, doi: <https://doi.org/10.1016/j.enbuild.2020.109814>
42. T.B. Nitter, M.S. Grande, K.H. Svendsen, R.B. Jørgensen, **S. Carlucci**, G. Cao. Can CO<sub>2</sub> sensors in the ventilation of a pool facility reduce the variability in the trihalomethane concentration in indoor air? *Environment International* 138 (2020) 105665, doi: <https://doi.org/10.1016/j.envint.2020.105665>
41. A. Moazami, **S. Carlucci**, S. Geving, V. Nik. Towards climate robust buildings: an innovative method for designing buildings with robust energy performance under climate change. *Energy and Buildings* 202 (2019) 109378, doi: <https://doi.org/10.1016/j.enbuild.2019.109378>
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35. V. Földváry, ..., **S. Carlucci** et al. Development of the ASHRAE Global Thermal Comfort Database II. *Building and Environment* 142 (2018) 502–512, doi: <https://doi.org/10.1016/j.buildenv.2018.06.022>  
**2018 Best Paper Award from Building and Environment**
34. **S. Carlucci**, L. Bai, R. de Dear, L. Yang. Review of adaptive thermal comfort models in built environmental regulatory documents, *Building and Environment* 137 (2018) 73–89, doi: <https://doi.org/10.1016/j.buildenv.2017.12.029>
33. G. Lobaccaro S. Croce, D. Vettorato, **S. Carlucci**. A holistic approach to assess the exploitation of renewable energy sources for design interventions in the early design phases, *Energy and Buildings* 175 (2018) 235–256, doi: <https://doi.org/10.1016/j.enbuild.2018.06.066>
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15. G. Lobaccaro, **S. Carlucci**, E. Löfström. A Review of Systems and Technologies for Smart Homes and Smart Grids, *Energies* 9(5) (2016) 348, doi: <https://doi.org/10.3390/en9050348>  
**2016 Second Best Paper Award**
14. **S. Carlucci**, G. Cattarin, F. Causone, L. Pagliano. Multi-objective optimization of a nearly zero-energy building based on thermal and visual discomfort minimization using a non-dominated sorting genetic algorithm (NSGA-II), *Energy and Buildings* 104 (2015) 378–394, doi: <https://doi.org/10.1016/j.enbuild.2015.06.064>
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11. S. Attia, **S. Carlucci**. Impact of different thermal comfort models on zero energy residential buildings in hot climate, *Energy and Buildings* 102 (2015) 117–128, doi: <https://doi.org/10.1016/j.enbuild.2015.05.017>
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9. **S. Carlucci**, L. Pagliano, A. Sangalli. Statistical analysis of ranking capability of long-term thermal discomfort indices and their adoption in optimization processes to support building design, *Building and Environment* 75 (2014) 114–131, doi: <https://doi.org/10.1016/j.buildenv.2013.12.017>
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7. S. Attia, M. Hamdy, W. O'Brien, **S. Carlucci**. Assessing Gaps and Needs for Integrating Building Performance Optimization Tools in Net Zero Energy Buildings Design, *Energy and Buildings* 60 (2013) 110–124, doi: <https://doi.org/10.1016/j.enbuild.2013.01.016>
6. **S. Carlucci**, L. Pagliano, P. Zangheri. Optimization by discomfort minimization for designing a comfortable net zero energy building in the Mediterranean climate, *Advanced Materials Research* 689 (2013) 44–48, doi: <https://doi.org/10.4028/www.scientific.net/AMR.689.44>
5. **S. Carlucci**, L. Pagliano, M. Pietrobon. Analysis of 85 green buildings within the Project GreenBuilding<sup>plus</sup>: a basis for supporting energy efficient investments, *Advanced Materials Research* 689 (2013) 49–53, doi: <https://doi.org/10.4028/www.scientific.net/AMR.689.49>
4. **S. Carlucci**, P. Zangheri, L. Pagliano. Achieving the Net Zero Energy target in Northern Italy: lessons learned from an existing Passivhaus with Earth-to-Air Heat Exchanger, *Advanced Materials Research* 689 (2013) 184–187, doi: <https://doi.org/10.4028/www.scientific.net/AMR.689.184>
3. **S. Carlucci**, L. Pagliano. An optimization procedure based on thermal discomfort minimization to support the design of comfortable net zero energy buildings, in: *Building Simulation 2013–13<sup>th</sup> International IBPSA Conference*, 25–28/08/2013, Chambéry, France (2013) 3689–3696. ISBN 978–2–7466–6294–0
2. S. Attia, M. Hamdy, W. O'Brien, **S. Carlucci**. Computational optimization for Zero Energy Buildings Design: Interview results with twenty-eight international experts, in: *Building Simulation 2013–13<sup>th</sup> International IBPSA Conference*, 25–28/08/2013, Chambéry, France (2013) 3697–3704. ISBN 978–2–7466–6294–0
1. **S. Carlucci**, L. Pagliano. A review of indices for the long-term evaluation of the general thermal comfort conditions in buildings, *Energy and Buildings* 53 (2012) 194–205, doi: <https://doi.org/10.1016/j.enbuild.2012.06.015>

*Conference and seminar participations*

19. G. Vurro, A. Martilli, P. Hadjinicolaou, **S. Carlucci**. Quantifying the impact of extreme heat and adaptation strategies on urban air conditioning use and energy consumption in Nicosia, Cyprus. EMS Annual Meeting 2024, Barcelona, Spain, 1–6 Sep 2024, EMS2024-18, <https://doi.org/10.5194/ems2024-18>, 2024.

18. R.T. Hellwig, S. Gauthier, I. Mino-Rodriguez, M. Syndicus, R. Marcovic, L. Amanowicz, M. André, L. Arpan, E. Azar, R. Balazs, K. Bandurski, V.M. Barthelmes, Z.D. Bèlafi, **S. Carlucci**, Q. Carton, S. d'Oca, M. De Simone, G. Derbas, Q. Jin, D. Khovalyg, W. O'Brien, C. Piselli, A.L. Pisello, G. Spigliantini, F. Topak, M. Vellei, R. De Vecchi, A. Wagner, S. Wei, H. Zhong. Accounting for occupants in current building design and operation practice. CIBSE Technical Symposium 2024 Fit for 2050-Delivering buildings and defining performance for a net zero built environment.
17. I. Kyprianou, P. Papadopoulos, **S. Carlucci**. Collective Intelligence For Energy Flexibility - An Eu Project Which Develops Software And Hardware Solutions To Smart Up Existing Buildings. Energy in Built Environment - Climate-driven solutions for next generation EU cities, LNEG, PED-EU-NET, EERA JPSC Joint Conference. 29-30 June 2023, Lisbon, Portugal.
16. A. Worthy, B. Aas, **S. Carlucci**, I. Andresen. The Influence of Outdoor Temperature on Norwegian Swimming Hall Energy Consumption. 10<sup>th</sup> International Conference on Swimming Pool & Spa: Sustainability of Swimming Pools and spa in a One Health Perspective. The Italian National Institute of Health and University of Rome "Foro Italico". 15-17/02/2023. Bologna, Italy. ISSN: 0393-5620.
15. M.A. Lange, **S. Carlucci**, G. Artopoulos. Urban Environmental Quality in the Eastern Mediterranean and the Middle East. Conference on Water-Energy-Food-Ecosystems Nexus Scientific Advances in the Mediterranean Region. 27-29/09/2021, Nicosia, Cyprus.
14. M. Charalambous, J.N. Tzortzi, C.A. Castiglioni, **S. Carlucci**. A nature-based solution for Mediterranean climates – Monitoring and evaluation of a modular living wall. Nature for Inclusive and Innovative Urban Regeneration International Conference. 16-17/06/2022, Milan, Italy.
13. **S. Carlucci**. The New European Bauhaus: an opportunity for socially-oriented research and innovation at the Cyprus Institute. Cyprus Talks Green: The Rise of the new urbanism. 8/11/2021, Nicosia, Cyprus.
12. A. Marchenko, **S. Carlucci**, L. Pagliano, M. Pietrobon, T. Karlessi, M. Santamouris, N. Delaere, M. Assimakopoulos. The assessment of the environmental quality directly perceived and experienced by the employees of 69 European offices. In: Rethinking Comfort. NCEUB (Network for Comfort and Energy Use in Buildings), 12–15/04/2018, Windsor, UK.
11. V. Lontorfos, T. Karlessi, M. Assimakopoulos, M. Santamouris, N. Delaere, **S. Carlucci**. Evaluation of the indoor environmental quality in 10 office buildings in Greece using a post-occupant evaluation strategy based on the application of a web-based tool. 16<sup>th</sup> International Conference on Sustainable Energy Technologies SET 2017. 17–20/07/2017, Bologna, Italia.
10. M. Korsnes, Y. Wang, G. Lobaccaro, A. Moazami, **S. Carlucci**. The Sustainability Challenge: How Multi-Cultural and Interdisciplinary Groups Of Master Students Conceived Sustainable Architecture In Shanghai. Living and Sustainability: An Environmental Critique of Design and Building Practices, Locally and Globally. 09-10/02/2017, London, UK.
9. F. Causone, A. Moazami, **S. Carlucci**, L. Pagliano, M. Pietrobon. Ventilation strategies for the deep energy retrofit of a kindergarten, in: 36<sup>th</sup> AIVC Conference–Effective ventilation in high performance buildings. 23–24/09/2015, Madrid, Spain, 991–1001. ISBN: 978–3901425134
8. **S. Carlucci**, A. Sangalli, L. Pagliano. La valutazione delle caratteristiche termiche dinamiche delle chiusure opache dell'involucro edilizio, in: 67° Congresso Nazionale ATI, 11–14/09/2012, Trieste, Italy 1–6. (In Italian). SBN: 978–8890767609

7. L. Pagliano, P. Zangheri, **S. Carlucci**. A way to net zero energy buildings for Italy: how the earth-to-air heat exchanger could contribute to reach the target in warm climates, in: EuroSun 2010–International Conference on Solar Heating, Cooling and Buildings, 28/09/2010–01/10/2010, Graz, Austria 1–8. ISBN: 978–3901425134
6. A. Athienitis, P. Torcellini, A. Hirsch, W. O’Brien, M. Cellura, R. Klein, V. Delisle, S. Attia, P. Bourdoukan, **S. Carlucci**. Design, Optimization, and Modelling Issues of Net-Zero Energy Solar Buildings, in: EuroSun 2010–International Conference on Solar Heating, Cooling and Buildings, 28/09/2010–01/10/2010, Graz, Austria 1–8. ISBN: 978–3901425127
5. L. Pagliano, **S. Carlucci**, A. Roscetti, P. Zangheri. Recent Trends and Developments Regarding Summer Comfort and Low Energy Cooling in Italy, in: AIVC WorkShop–Summer comfort and cooling. 31/03/2009–01/04/2009, Barcelona, Spain 1–8.
4. P. Zangheri, L. Pagliano, **S. Carlucci**, T. Toppi. Estensione dello Standard Passivhaus al sud Europa: requisiti energetici e di comfort, in: 63° Congresso Nazionale ATI, 22–26/09/2008, Palermo, Italy 1–6. (In Italian). ISBN: 978–8877588395
3. L. Pagliano, **S. Carlucci**, T. Toppi, P. Zangheri. Combining high-end architecture and low energy: energy analysis to support the design of a large office building within the GreenBuilding<sup>plus</sup> project, in: IEECB Focus 2008–Improving Energy Efficiency in Commercial Buildings Conference, 10/4/2008–11/4/2008, Frankfurt, Germany (2010) 343–353. ISBN: 978–9279160172
2. L. Pagliano, P. Zangheri, **S. Carlucci**. Optimization of air tightness and night ventilation for Passive houses in Italian climates under Fanger and Adaptive comfort models, in: 30<sup>th</sup> AIVC conference–International symposium in high-quality thermal retrofitting of large-volume buildings, 01/10/2009–02/10/2009, Berlin, Germany 1–6. ISBN: 978–1617827822
1. P. Zangheri, L. Pagliano, **S. Carlucci**. Passive house optimization for Southern Italy based on the “New Passivhaus Standard”, in: ECEEE Summer Study: Act! Innovate! Deliver! Reducing energy demand sustainably, 01/06/2009–06/06/2009, La Colle sur Loup, France 1643–1648. ISBN: 978–9163344541

### *Formal presentations*

#### *Invited talks*

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| 08/11/2022 | <b>Recent research, methods, and new trends on thermal comfort assessments at the Cyprus Institute.</b> Toronto Metropolitan University, Toronto, Canada. Online event.                              |
| 21/10/2022 | <b>The New European Bauhaus: an opportunity for socially-oriented research and innovations at the Cyprus Institute.</b> NTNU’s Research Talks. Trondheim, Norway.                                    |
| 08/11/2021 | <b>The New European Bauhaus: an opportunity for socially-oriented research and innovations at the Cyprus Institute.</b> Cyprus Talks Green. The Technical University of Cyprus. Nicosia, Cyprus.     |
| 12/10/2021 | <b>Built Environment Task Force.</b> Pre-conference workshop of the 2 <sup>nd</sup> International Conference on Climate Change in the Eastern Mediterranean and Middle East (EMME), Nicosia, Cyprus. |
| 30/09/2021 | <b>Urban River Agenda.</b> Joint online Expert and Dialogue Meeting on “Cross-border Collaboration in Support of Healthy Corridors and Climate Change Adaptation”. Online event.                     |
| 10/06/2021 | <b>Energy and Comfort assessment in Buildings.</b> Africa-Europe BioClimatic buildings for the XXI century. Organized by eceee 2021 Summer study on energy efficiency. Online event.                 |
| 13/06/2018 | <b>Occupant-centric built environment simulation.</b> ABC <sup>PhD</sup> OPENTalk 2018, Politecnico di Milano, Italy.  |

- 02/11/2017 **Opportunities and challenges in Building Performance Simulation.** National seminar: VVS–Dagene 2017. Organized by IBPSA Nordic and VVS – Foreningen, Lillestrøm, Norway.
- 20/10/2016 **Opportunities and challenges in Building Performance Simulation.** National seminar: VVS–Dagene 2016. Organized by IBPSA Nordic and VVS – Foreningen, Lillestrøm, Norway.
- 19/03/2014 **Presentazione del Progetto europeo MaTrID.** National seminar: *Nearly zero energy buildings in the practice*, Bolzano, Italy. (In Italian)
- 25/08/2013 **Comfort in Zero Energy Buildings.** International seminar: *IEA SHC Task 40 / ECBCS Annex 52 at BS2013*, Chambéry, France.
- 08/05/2013 **Rilanciare l'industria edilizia: la ristrutturazione a energia zero–Il progetto europeo EU–GUGLE.** International fair: *Nextbuilding at The innovation cloud*, Milan, Italy. (In Italian)
- 21/09/2012 **Il progetto Europeo MaTrID: Market Transformation Towards Nearly Zero Energy Buildings Through Widespread Use of Integrated Energy Design.** National seminar: *nZEB nella pratica dei bandi pubblici*, Bolzano, Italy. (In Italian)
- 18/05/2011 **GreenBuilding Programme–una carta verde in più per gli albergatori.** National seminar: *Fonti Rinnovabili Di Energia ed Efficienza Energetica Nel settore Turistico Alberghiero*, Modena, Italy. (In Italian)
- 10/11/2010 **Il progetto europeo Passive–On: obiettivi e risultati.** National seminar: *Strumenti tecnico per un'edilizia sociale sostenibile*, Rome, Italy. (In Italian)
- 06/11/2008 **Progetti di ricerca Europei per l'efficienza energetica.** National fair: *KeyEnergy*, Rimini, Italy. (In Italian)

*Conference presentations and seminars*

- 28/08/2013 **An optimization procedure based on thermal discomfort minimization to support the design of comfortable net zero energy buildings,** oral presentation, international conference: *BS2013–13<sup>th</sup> IBPSA conference*, Chambéry, France.
- 08/05/2013 **Rilanciare l'industria edilizia: la ristrutturazione a energia zero–Il progetto europeo EU–GUGLE,** oral presentation, international conference: *Net/Nearly Zero Energy Buildings: Today's Achievements, Outlook For A Near Future*, Rho, Milano, Italy.
- 22/03/2013 **Progettare per il comfort estivo al sud–Tecnologie e prestazioni, monitoraggio PassReg,** oral presentation, national conference: *Costruire e Riqualificare Edifici Passivi Zero Energy nel clima Mediterraneo*, Catania, Italy. (In Italian)
- 13/09/2012 **La valutazione delle caratteristiche termiche dinamiche delle chiusure opache dell'involucro edilizio,** oral presentation, national conference: *67° Congresso Nazionale ATI*, Trieste, Italy. (In Italian)
- 03/03/2011 **Reliable data on new low energy buildings and deep renovations as a prerequisite for energy efficient investments. Analysis of 85 green buildings within the IEE Project GreenBuilding<sup>plus</sup>,** poster presentation, international conference: *World Sustainable Energy Days 2011*, Wels, Austria.
- 29/09/2010 **A way to net zero energy buildings for Italy: how the earth–to–air heat exchanger could contribute to reach the target in warm climates,** poster presentation, international conference: *EuroSun 2010*, Graz, Austria.
- 06/03/2009 **Il progetto europeo GreenBuilding–Migliorare l'efficienza energetica degli edifici non residenziali: una rassegna dei risultati della prima fase e gli obiettivi della seconda fase,** oral presentation, national conference: *Contabilizzazione del calore, efficienza e certificazione energetica degli edifici: stato dell'arte e prospettive future*, Genova, Italy. (In Italian)

25/09/2008 **Estensione dello Standard Passivhaus al sud Europa: requisiti energetici e di comfort**, oral presentation, national conference: *63° Congresso Nazionale ATI*, Palermo, Italy. (In Italian)

### *Evaluator*

06/2022–Present **Project evaluator**, Independent Research Fund Denmark. Odense, Denmark.  
05/2022–Present **Project evaluator**, National Research Foundation. Singapore.  
05/2022–Present **Selection committee member**, Lund University, Sweden.  
03/2021–Present **Project evaluator**, FORMAS – Swedish government research council for sustainable development, Sweden.  
07/2020–Present **External evaluator**, Canada Research Chair, Toronto, Canada.  
11/2019–Present **Project evaluator**, Research Council of the Université Catholique de Louvain, Louvain-la-Neuve, Belgium.  
07/2019–Present **External evaluator**, Qatar University, Doha, Qatar.  
12/2018–Present **External evaluator**, Khalifa University of Science & Technology, Abu Dhabi, United Arab Emirates.  
09/2017–Present **Project evaluator**, Science Foundation Ireland in partnership with the National Natural Science Foundation of China.

### *Service for international journals (selection)*

04/2023–Present **Editorial Board Member**, *Building and Environment*, Elsevier.  
04/2023–Present **Editorial Board Member**, *Energy and Buildings*, Elsevier.  
09/2021–Present **Associate Editor**, *Frontiers in Built Environment*. Frontier.  
01/2023–Present Topic Editor of the Collection “*Global Excellence in Sustainable Design and Construction: Europe 2023*”, *Frontiers in Built Environment*. Frontier.  
09/2021–12/2022 **Guest Editor** of the Joint Special Issue “*Enhancing energy flexibility and climate resilience of urban energy systems*”, *Applied Energy and Advance in Applied Energy*, Elsevier.  
03/2020–07/2020 **Guest Editor** of the Special Issue “*Diversity of Thermal Comfort in the Real World*”, *Energy and Buildings*, Elsevier.  
01/2020–Present **Editorial Board Member**, *Energy Efficiency*, Springer Nature.  
12/2019–Present **Editorial Board Member**, *Energies*, MDPI.  
S. Carlucci has, so far, carried out more than 300 reviews and is serving as a reviewer in more than 50 scientific journals, among which:  
01/2023–Present **Reviewer**, Scientific Reports, Springer Nature  
01/2023–Present **Reviewer**, Plos One, Plos.  
07/2020–Present **Reviewer**, *Energy*, Elsevier.  
12/2020–Present **Reviewer**, *Architectural Engineering and Design Management*, Taylor & Francis  
02/2019–Present **Reviewer**, *Journal of Building Performance Simulation*, Taylor & Francis.  
02/2018–Present **Reviewer**, *Energy Policy*, Elsevier.  
11/2016–Present **Reviewer**, *IEEE Transactions on Green Communications and Networking*, IEEE Communication Society.  
05/2016–Present **Reviewer**, *Operational Research: An International Journal*, Springer Nature.  
02/2016–Present **Reviewer**, *Science and Technology for the Built Environment*, ASHRAE.  
08/2015–Present **Reviewer**, *Applied Energy*, Elsevier.

- 02/2014–Present **Reviewer**, *Renewable & Sustainable Energy Reviews*, Elsevier.
- 01/2014–Present **Reviewer**, *Sustainable Cities and Society*, Elsevier.
- 12/2012–Present **Reviewer**, *Building and Environment*, Elsevier.
- 06/2012–Present **Reviewer**, *Energy and Buildings*, Elsevier.
- 06/2012–Present **Reviewer**, *Energy Efficiency*, Springer Nature.

### *Membership in scientific committees*

- 22-24/03/2023 **Member of the Scientific Committee**, Sustainable Built Environments – SBE23 Thessaloniki Conference: Paving the way for achieving the targets of 2030 and beyond. Thessaloniki, Greece.
- 11/11/2022 **Chair**, The 2<sup>nd</sup> ACM International Workshop on Big Data and Machine Learning for Smart Buildings and Cities, at the ACM BuildSys 2021 Conference, Boston, USA.
- 2-3/11/2022 **Co-Chair**, The 5<sup>th</sup> ESEIA International Conference on “Towards Climate Neutral Energy Communities”, Nicosia, Cyprus.
- 16/11/2021 **Chair**, The 1<sup>st</sup> ACM International Workshop on Big Data and Machine Learning for Smart Buildings and Cities, at the ACM BuildSys 2021 Conference, Coimbra, Portugal.
- 11/11/2021 **Member of the Scientific Advisory Board**, Master RIDEF’s, Politecnico di Milano, Italy.
- 13/10/2021 **Chair**, The transition pathway – Bringing adaptation options to life. 2<sup>nd</sup> International Conference on Climate Change in the Eastern Mediterranean and Middle East (EMME), Aphroditis Hills, Cyprus.
- 11/10/2021 **Chair of the joint workshop**, Urban transition towards climate-proof and thriving societies in the Eastern Mediterranean and Middle East. The Cyprus Institute, Nicosia, Cyprus.
- 21–23/09/2020 **Member of the International Scientific Committee**, iCRBE2020– International Conference on Climate Resilient Built Environment. Bali, Indonesia.
- 22/10/2020 **Member of the Advisory Board**, PERISCOPE–Portal for hERItage buildingS integration into the CONtemPorary built Environment. The Cyprus Institute, Nicosia, Cyprus.
- 6-7/11/2019 **Member of the scientific committee**, 1<sup>st</sup> Nordic ZEB+ Conference, Trondheim, Norway.
- 10–11/04/2019 **Member of the scientific committee**, Comfort at the Extremes–Rethinking Comfort, Dubai, United Arab Emirates.
- 11–14/06/2017 **Member of the scientific committee** and **Chair** of the session *Retrofit and Conservation III*, NSB 2017–11th Nordic Symposium on Building Physics, Trondheim, Norway.
- 11–13/09/2016 **Member of the international programme committee** and **Chair** of the session *IS03: Energy Smart Cities and Communities: from performance indicators to real district-scale examples*, SEB 2016–International Conference on Sustainability in Energy and Buildings, Torino, Italia.
- 07–10/05/2014 **Member of the scientific committee**, eSim 2014 – Canada’s building performance simulation conference, Ottawa, Canada.
- 21–22/12/2013 **Member of the conference committee**, GBTM 2013 – 3<sup>rd</sup> International Conference on Green Building Technology and Materials, Kuala Lumpur, Malaysia.
- 08/05/2013 **Member of the organizing committee**, International Conference on Net/Nearly Zero Energy Buildings: Today’s Achievements, Outlook for a Near Future, Milan, Italy.
- 27–28/12/2012 **Member of the conference committee**, GBTM 2012 – 2<sup>nd</sup> International Conference on Green Building Technology and Materials, Wuhan, China.

## Research activities

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### *Participation in international projects*

- 10/2018–12/2023 **Subtask leader and technical contributor**, *IEA-EBC Annex 79: “Occupant-Centric Building Design and Operation”*, NTNU, not funded.
- 01/2016–12/2019 **Technical contributor and national representative for Norway**, *IEA-EBC Annex 69: “Strategy and Practice of Adaptive Thermal Comfort in Low Energy Buildings”*, NTNU, not funded.
- 03/2015–06/2018 **Technical contributor**, *IEA-EBC Annex 66: “Definition and Simulation of Occupant Behavior in Buildings”*, NTNU, not funded.
- 10/2008–12/2013 **Technical contributor**, *IEA SHC Task 40/ECBCS Annex 52: “Towards Net Zero Energy Solar Buildings”*, Politecnico di Milano, not funded.

### *Participation in European projects*

- 02/2024–06/2024 *Horizon Europe-101136775*, **INITIATE: “Supporting European R&I Through stakeholder collaboration and institutional reform”**, The Cyprus Institute, European Commission Horizon Europe (Project budget: 4.577.108,94 €, CyI budget: 483.687,50 €).  
[Primary Investigator for The Cyprus Institute](#)
- 05/2023–06/2024 *EIT HEI Initiative*, **TREATY: “Nurturing deep tech talents for clean and sustainable energy transition”** The Cyprus Institute, funded by the European Union EIT Climate-KIC (Project budget: Phase 1: max 350.000 €, Phase 2: 400.000 €)  
[Research Team Member \(Primary Investigator Dr. Chrysanthia Leontiou\)](#)
- 01/2023–06/2024 *DIGITAL-2021-EDIH-INITIAL-01*, **DiGiNN: “Cyprus DIGital INNovation Hub”**, The Cyprus Institute, funded by the European Commission (Project budget: 5.195.090,75 €, CyI budget: 1.376.522,90 €)  
[Research Team Member \(Primary Investigator Dr. Vassilios Tsakalos\)](#)
- 12/2022–06/2024 *MSCA Doctoral Network-101073357*, **MuSIC: “Multi-sensory solutions for increasing human-building resilience in face of climate change”**, The Cyprus Institute, funded by the European Commission (Project budget: € 2 655 820.79, CYI budget € 482 040).  
[Primary Investigator for The Cyprus Institute](#)
- 01/2022–12/2023 *Erasmus+2021-1-IT02-KA220-HED-000032223*, **CliCCHE: “Climate change, cities, communities and Equity in health”**, The Cyprus Institute, funded by the Italian Erasmus+ Agency INDIRE (Project budget: € 297 852, CYI budget € 59 568).  
[Primary Investigator for The Cyprus Institute](#)
- 06/2021–06/2024 *Horizon 2020-101033683*, **COLLECTiEF: “Collective Intelligence for Energy Flexibility”**, The Cyprus Institute, funded by the European Commission (Project budget: € 3 998 868,75, CYI budget € 364 687,50).  
[Primary Investigator for The Cyprus Institute](#)
- 02/2022–10/2023 **Revision of Cyprus Energy and Climate Plan**, The Cyprus Institute, funded by European Commission’s DG REFORM, (CyI budget: 75.000,00 €) Scoring 91.8 points out of 100.  
[Research Team Member \(Primary Investigator Prof. Theodoros Zachariadis\)](#)
- 10/2019–02/2021 *Horizon 2020–678407*, **ZERO-PLUS: “Achieving near Zero and Positive Energy Settlements in Europe using Advanced Energy Technology”**, The Cyprus Institute, funded by the European Commission (Project budget: € 3 512 024).  
[Project Leader for The Cyprus Institute](#)
- 01/2016–12/2019 *Horizon 2020–680529*, **QUANTUM: “Quality management for building performance–Improving energy performance by life cycle quality management”**, NTNU, funded by the European Commission (Project budget: € 6 889 097).  
[Primary investigator for NTNU](#)

- 01/2018–10/2019 *Horizon 2020–770141, TRANS–URBAN–EU–CHINA: “Transition towards urban sustainability through socially integrative cities in the EU and in China”*, NTNU, funded by the European Commission (Project budget: € 2 500 000).  
Primary Investigator for the Department of Civil and Environmental Engineering of NTNU
- 04/2012–04/2015 *IEE–11–007–SI2.615921, Power house NZC: “Power House Nearly Zero Energy Challenge”*, NTNU, funded by the European Commission (Project budget: € 2 167 688).  
Subcontractor
- 04/2013–10/2015 *FP7–3146632, EU–GUGLE: “European cities serving as Green Urban Gate towards Leadership in sustainable Energy”*, Politecnico di Milano, funded by the European Commission (Project budget: € 30 552 167).  
Research Team Member (Primary Investigator prof. Lorenzo Pagliano)
- 06/2012–12/2014 *IEE/11/989/SI2.615952, MaTrID: “Market Transformation Towards Nearly Zero Energy Buildings Through Widespread Use of Integrated Energy Design”*, Politecnico di Milano, funded by the European Commission (Project budget: € 1 227 928).  
Research Team Member (Primary Investigator prof. Lorenzo Pagliano)
- 03/2014–04/2014 *IEE/13/786/SI2.675580, RENEW SCHOOL: “Sustainable school building renovation promoting timber prefabrication, indoor environment quality and active use of renewables”*, Politecnico di Milano, funded by the European Commission (Project budget: € 1 656 534).  
Research Team Member (Primary Investigator prof. Lorenzo Pagliano)
- 12/2007–05/2010 *EIE/07/109/SI2.466268, GreenBuilding<sup>plus</sup>: “Leveraging the GreenBuilding Programme (GBP) to promote energy–efficiency and renewables in non–residential buildings”*, Politecnico di Milano, funded by the European Commission (Project budget: € 1 280 708).  
Research Team Member (Primary Investigator prof. Lorenzo Pagliano)
- 12/2007–05/2010 *EIE/07/070/SI2.466264, KeepCool II: “Transforming the market from cooling to sustainable summer comfort”*, Politecnico di Milano, funded by the European Commission (Project budget: € 879 659).  
Research Team Member (Primary Investigator prof. Lorenzo Pagliano)
- 11/2007–10/2009 *EIE/07/026/SI2.466692, ThermCo: “Thermal comfort in buildings with low–energy cooling–Establishing an annex for EPBD–related CEN–standards for buildings with high energy efficiency and good indoor environment”*, Politecnico di Milano, funded by the European Commission (Project budget: € 967 448).  
Research Team Member (Primary Investigator prof. Lorenzo Pagliano)
- 11/2006–04/2009 *EIE/06/217/SI2.445571, GreenNet-Incentives: “Promoting grid-related incentives for large-scale RES-E integration into the different European electricity systems”*, Politecnico di Milano, funded by the European Commission (Project budget: € 1 000 108).  
Research Team Member (Primary Investigator prof. Lorenzo Pagliano)

### *Participation in national projects*

- 05/2021–09/2023 *CYPRUS-PRE-SEED, MESH: “Nature-inspired modular and flexible skin for high-efficiency buildings”*, CyI, Funded by the Research and Innovation Foundation (Project budget: € 152 640). Within this project the start-up [Adaptive Architecture Systems](#) was founded.  
Primary Investigator for The Cyprus Institute
- 01/2017–10/2019 *FME–ZEN, “Zero Emission Neighborhoods in Smart cities”*, NTNU, funded by the Research Council of Norway (Project budget: about 400 000 000 NOK)  
Research Team Member (Primary Investigator prof. Arild Gustavsen)
- 01/2017–10/2019 *EnergiX, “Utvikling av metoder og system for automatisk effektkontroll i bolig”* (Development of methods and systems for automatic power control in housing), NTNU, funded by the Research Council of Norway (Project budget: 17 890 000 NOK)  
Primary Investigator for NTNU

- 03/2014–09/2014 *FESA per competitività 2007–2013*, “**Smart Campus as Urban Open Labs (SCUOLA)**”, Politecnico di Milano, funded by the European fund for the regional development, the Italian Ministry for the Economic Development, and Lombardy Region (Project budget: € 10 000 000).  
Research Team Member (Primary Investigator prof. Lorenzo Pagliano)
- 10/2012–09/2013 *ENEA/MSE–2013*, “**Definizione di parametri per l’ottimizzazione di interventi di riqualificazione in considerazione del rapporto costi/benefici**”, Politecnico di Milano, funded by ENEA and the Italian Ministry for the Economic Development (Project budget: € 20 000).  
Research Team Member (Primary Investigator prof. Lorenzo Pagliano)
- 10/2011–09/2012 *ENEA/MSE–2012*, “**Analisi comparata degli indicatori per la valutazione del comfort estivo e proposta di una metodologia per l’individuazione delle varianti di edificio sotto il profilo del fattore costi–beneficio (rif. 2010/31/CE–EPBD recast)**”, Politecnico di Milano, funded by ENEA and the Italian Ministry for the Economic Development (Project budget: € 18 000).  
Research Team Member (Primary Investigator prof. Lorenzo Pagliano)
- 02/2011–00/2011 *ENEA/MSE–2011*, “**Partecipazione ad attività IEA–ECBCS Annex 52: Towards Net Zero Energy Solar Buildings e Annex 5: Air Infiltration and Ventilation Centre**”, Politecnico di Milano, funded by ENEA and the Italian Ministry for the Economic Development (Project budget: € 25 000).  
Research Team Member (Primary Investigator prof. Lorenzo Pagliano)

## Teaching activities

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### Teaching assignments

- 01/2021–06/2024 **Lecturer and Module responsible**, *EAS 500 – Fundamentals, Frontiers, and Methodologies in Environmental Sciences, Renewable Energy and Sustainable Built Environment*, The Cyprus Institute, Nicosia, Cyprus (10 ECTS).
- 01/2021–06/2024 **Course responsible**, *EAS 518 – Energy and Built Environment*, The Cyprus Institute, Nicosia, Cyprus (5 ECTS).
- 10/2023–11/2023 **Course responsible**, *TREATY – Introduction to Building Performance Simulation*, The Cyprus Institute, Nicosia, Cyprus (2 ECTS).
- 01/2020–12/2021 **Course responsible**, *EAS 519 – Energy and Built Environment*, The Cyprus Institute, Nicosia, Cyprus (7.5 ECTS).
- 01/2016–10/2019 **Course responsible**, *TBA4166 – Building Performance Simulation*, NTNU, Trondheim, Norway.
- 01/2016–10/2019 **Lecturer and Module responsible**, *TBA4165 – Building Technology: Design of Complex Buildings*, NTNU, Trondheim, Norway (7.5 ECTS).
- 01/2016–10/2019 **Lecturer and Module responsible**, *TBA4171 – Building and Material Engineering–Advanced Course*, NTNU, Trondheim, Norway (7.5 ECTS).
- Spring 2014 **Adjunct professor**, *Thermodynamics and Building physics*, Politecnico di Milano, School of Building Engineering and Architecture, Milan, Italy (12 ECTS).
- Spring 2013 **Lecturer**, *Energy efficiency in buildings*, Politecnico di Milano, Energy Department, RIDEF Energy for Kyoto – Master in Renewable Energy, Decentralization and Energy Efficiency, Milan, Italy.
- Fall 2012 **Lecturer**, *Il commissioning del sistema edificio–impianto (Commissioning of the building envelope–energy systems)*, Italian Association of Air–Conditioning, Heating and Refrigeration (AiCARR), Milan, Italy.

- Spring 2012 **Lecturer**, *Energy efficiency in buildings*, Politecnico di Milano, Energy Department, RIDEF Energy for Kyoto – in Renewable Energy, Decentralization and Energy Efficiency, Milan, Italy.
- Spring 2011 **Lecturer**, *Energy efficiency in buildings*, Politecnico di Milano, Energy Department, RIDEF Energy for Kyoto – Master in Renewable Energy, Decentralization and Energy Efficiency, Milan, Italy.
- Spring 2010 **Lecturer**, *Energy efficiency and energy certification of buildings*, Fondazione En.A.I.P., Milan, Italy.
- Spring 2010 **Lecturer**, *Energy efficiency in buildings*, Politecnico di Milano, Energy Department, RIDEF Energy for Kyoto – Master in Renewable Energy, Decentralization and Energy Efficiency, Milan, Italy.
- Spring 2009 **Lecturer**, *Energy efficiency in buildings*, Politecnico di Milano, Energy Department, RIDEF Energy for Kyoto – Master in Renewable Energy, Decentralization and Energy Efficiency, Milan, Italy.
- Fall 2008 **Lecturer**, *Energy efficiency in the building sector & Energy certification of buildings*, Istituto Regionale lombardo di formazione per l'amministrazione pubblica (IReF), Milan, Italy.
- Spring 2008 **Adjunct professor**, *Methods for the environmental control*, Politecnico di Milano, Faculty of Architecture and Society, Milan, Italy (4 ECTS).
- Spring 2008 **Lecturer**, *Energy efficiency in buildings*, Politecnico di Milano, Energy Department, RIDEF Energy for Kyoto – Master in Renewable Energy, Decentralization and Energy Efficiency, Milan, Italy.
- Spring 2007 **Lecturer**, *Energy efficiency in buildings*, Politecnico di Milano, Energy Department, RIDEF Energy for Kyoto – Master in Renewable Energy, Decentralization and Energy Efficiency, Milan, Italy.
- Fall 2007 **Lecturer**, *Integrated Environmental Analysis*, Fondazione Lombardia per l'Ambiente, Milan, Italy.

### *Other teaching activities*

- 27-31/03/2023 **Visiting lecturer**, Erasmus+ Teaching Mobility Programme, at Insubria University, Varese, Italy.
- 15-19/11/2021 **Visiting lecturer**, Erasmus+ Teaching Mobility Programme, at Politecnico di Milano, Milan, Italy.
- 13-23/11/2018 **Visiting lecturer**, Erasmus+ Teaching Mobility Programme, at Politecnico di Milano, Milan, Italy.
- 18–31/07/2016 **Board member** and **School responsible**, SENiC Summer School on *Sustainable Energy in Cities*. Shanghai, China.
- 6–17/07/2015 **Board member** and **lecturer**, SENiC Summer School on *Sustainable Energy in Cities*. Shanghai, China.
- 09/07–30/11/2012 **Tutor**, *Environmental technical physics and Building physics*, Politecnico di Milano, School of Building Engineering/Architecture, Milan, Italy.  
Course responsible: prof. Lorenzo Pagliano
- 21/06/2011 **Invited lecturer**, *Towards comfortable NZEBs–Thermal comfort and NZEBs*, Concordia University, Montreal, Canada.

### *Supervised theses*

- Ongoing **Supervisor**, Ravi Kumar Pandey, Ph.D. thesis: *Human-centric passive and hybrid strategies for adapting buildings and neighbourhoods to the changing climate*.  
The Cyprus Institute, Nicosia, Cyprus

*Ph.D.*

- Ongoing **Supervisor**, Mohammad Salehi, Ph.D. thesis: *Human-centric model-based predictive control of passive and hybrid solutions*.  
The Cyprus Institute, Nicosia, Cyprus
- Ongoing **Supervisor**, Giandomenico Vurro, Ph.D. thesis: *Coupling climate change to urban regeneration for spatial and temporal variable heat mitigation measures*.  
The Cyprus Institute, Nicosia, Cyprus
- 13/05/2023 **Co-Supervisor**, Ole Øiene Smedegård, Ph.D. thesis: *Utvikle fagfeltet innen planlegging og utføring av energi- og klimasystem i symjehallar” (Development in the design and operation of energy systems for the climate control of swimming halls)*, in English.  
NTNU, Trondheim, Norway
- 20/10/2022 **Supervisor**, Matteo Favero, Ph.D. thesis: *Thermal comfort enabling thermal flexibility of buildings*, awarded without amendments, in English.  
NTNU, Trondheim, Norway
- 30/06/2022 **Supervisor**, Ioanna Kyprianou, Ph.D. thesis: *Energy Poverty in Cyprus*, awarded without amendments, in English.  
The Cyprus Institute, Nicosia, Cyprus
- 30/08/2019 **Co-supervisor**, Amin Moazami, Ph.D. thesis: *Climate robust buildings: towards buildings with a robust energy performance under climate change*, awarded without amendments, in English.  
NTNU, Trondheim, Norway
- M.Sc. and B.Sc.*
- 10/2021 **Supervisor**, Magdalene Charalambous, M.Sc. thesis: *A Nature-based solution for the Mediterranean climate - Design, monitoring and evaluation of a green facade installed at the Cyprus Institute*, in English.  
The Cyprus Institute, Nicosia, Cyprus
- 12/2019 **Supervisor**, Silvia Biandrate, M.Sc. thesis: *Robust optimization of buildings under occupant behavior uncertainty*, in English.  
NTNU, Trondheim, Norway
- 07/2018 **Supervisor**, Martina Ferrando, M.Sc. thesis: *A probabilistic-based methodology for estimating occupancy profiles from electricity use in social housing*, in English.  
NTNU, Trondheim, Norway
- 10/2017 **Supervisor**, Sonja Egic, M.Sc. thesis: *An ontology of adaptive thermal comfort models*, in English.  
NTNU, Trondheim, Norway
- 06/2017 **Supervisor**, Håkon Eggebø, M.Sc. thesis: *Uncertainty and sensitivity analysis of building’s energy performance under future weather scenarios*, in English.  
NTNU, Trondheim, Norway
- 05/2015 **Supervisor**, Elena Bernardi, M.Sc. thesis: *Analysis of environmental assessment schemes*, in English.  
NTNU, Trondheim, Norway
- 18/12/2014 **Co-supervisor**, Andrea Sangalli, M.Sc. thesis: *Statistical analysis of the ranking capability of long-term thermal discomfort indices and analysis of sensitivity to time-related boundary conditions*, in English.  
Supervisor: prof. Lorenzo Pagliano, Politecnico di Milano, Milan, Italy
- 18/12/2013 **Co-supervisor**, Francesco De Rosa, M.Sc. thesis: *Building envelope optimization aiming at ensuring thermal and visual comfort conditions*, in English.  
Supervisor: prof. Lorenzo Pagliano, Politecnico di Milano, Milan, Italy
- 21/02/2011 **Co-supervisor**, Andrea Sangalli, B.Sc. thesis: *Dynamic thermal characteristics of the opaque vertical walls under the recent Italian legislation upgrade (Caratteristiche termiche dinamiche delle chiusure verticali opache alla luce della recente evoluzione normativa)*, in Italian.

- 21/09/2010 **Co-supervisor**, Carlo Bonnet, B.Sc. thesis: *Reduction of primary energy consumption in new buildings and renovations: Analysis of case studies (Riduzione del consumo di energia primaria in edifici nuovi e ristrutturazioni: Analisi di casi di studio)*, in Italian. Supervisor: prof. Lorenzo Pagliano, Politecnico di Milano, Milan, Italy
- 21/02/2010 **Co-supervisor**, Claudia Lualdi, B.Sc. thesis: *Indoor operative temperature in free-running mode: application to a case study and analysis of the main calculation models (Temperatura operativa interna estiva in free-running: Applicazione ad un caso di studio e analisi dei principali modelli di calcolo)*, in Italian. Supervisor: prof. Lorenzo Pagliano, Politecnico di Milano, Milan, Italy

## Administrative activities

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- 10/2022 **Member of the selection committee**, Post-doctoral fellow in Water Resources Engineering and Hydro-diplomacy. The Cyprus Institute, Nicosia, Cyprus.
- 10/2022 **Member of the selection committee**, Analyst. The Cyprus Institute, Nicosia, Cyprus.
- 10/2022 **Member of the evaluation committee**, Carrier promotion, Dr. Nestor Fylaktos. The Cyprus Institute, Nicosia, Cyprus.
- 7/2022 **Chair of the evaluation committee**, Mid-term evaluation, Assist. Prof. Victor Grigoriev. The Cyprus Institute, Nicosia, Cyprus.
- 3/2022 **Chair of the selection committee**, Post-doctoral fellow in occupant-centric building controls of grid-interactive energy efficient buildings. The Cyprus Institute, Nicosia, Cyprus.
- 11/2021 – Present **Chair of the Admissions Committee**, The Graduate School of the Cyprus Institute, Nicosia, Cyprus.
- 11/2021 – Present **Vice-Chair of the Disciplinary Committee**, The Graduate School of the Cyprus Institute, Nicosia, Cyprus.
- 06/2022 **Chair of the evaluation committee**, Recruiting of Assistant Professor in Energy. The Cyprus Institute, Nicosia, Cyprus.
- 02/2022 **Chair of the evaluation committee**, Carrier promotion, Dr. Chrysanthia Leontiou. The Cyprus Institute, Nicosia, Cyprus.
- 12/2021 **Chair of the evaluation committee**, Carrier promotion, Arch. Michalis Philippou. The Cyprus Institute, Nicosia, Cyprus.
- 11/2021 **Member of an evaluation committee**, Mid-term evaluation, Assist. Prof. George Artopoulos. The Cyprus Institute, Nicosia, Cyprus.
- 10/2019 – 10/2021 **Member of the Admissions Committee**, The Graduate School of the Cyprus Institute, Nicosia, Cyprus.
- 10/04/2022 **Opponent of a Ph.D. thesis**, Fabiana Frota de Albuquerque Landi, University of Perugia, Italy
- 19/01/2022 **Opponent of a Ph.D. thesis**, Ioannis Kousis, University of Perugia, Italy
- 11/10/2021 **Opponent of a Licentiate Evaluation Committee**, Yuchen Yang, Lund University, Sweden
- 03/2021 **Opponent of a Ph.D. thesis**, Mattia Giuseppe Lo Piccolo, University of Catania, Catania, Italy
- 01/2019 **Opponent of a Ph.D. thesis**, Giovanni Tumminia, University of Palermo, Palermo, Italy
- 12/2018 **Opponent of a Ph.D. thesis**, Federica Zagarella, Politecnico di Milano, Milano, Italy
- 05/09/2018 **Opponent in the first year Ph.D. hearing**, Niels Lassen. NTNU, Trondheim, Norway.

- 12/2017–03/2018 **Member of an assessment committee and Administrator**, Ph.D. evaluation and defense, Klodian Gradeci. NTNU, Trondheim, Norway.
- 02/2018–06/2018 **Member of a selection committee**, Ph.D. selection, Matteo Favero. NTNU, Trondheim, Norway.
- 05/2017–06/2016 **Member of a selection committee**, Ph.D. selection, Alla Marchenko. NTNU, Trondheim, Norway.
- 03/2016–04/2016 **Member of a selection committee**, Ph.D. selection, Amin Moazami. NTNU, Trondheim, Norway.
- 09/2015–02/2016 **Member of a selection committee and Administrator**, Selection procedure for a Professor II position in *Climate Adaptation of Buildings*, NTNU, Trondheim, Norway.
- 03/2015–04/2015 **Member of a selection committee**, Ph.D. selection, NTNU, Trondheim, Norway.
- 11/2014–11/2015 **Contributor**, Revision of the Civil engineering curriculum at the Department of Civil and Transport Engineering, NTNU, Trondheim, Norway.

## Fellowships and Awards

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- October 2023–Present Listed in Stanford University’s 2023 data update for "**Updated science-wide author databases of standardized citation indicators**". The database of the world’s 2% most widely cited scientists in different disciplines.
- January 2023 **2022 Best Paper Award** for the paper “A guideline to document occupant behavior models for advanced building controls” from *Building and Environment*.
- January 2023 **2022 Best Paper Award** for the paper “Quality criteria for multi-domain studies in the indoor environment: critical review towards research guidelines and recommendations” from *Building and Environment*.
- September 2022 Listed in Stanford University’s 2022 data update for "**Updated science-wide author databases of standardized citation indicators**". The database of the world’s 2% most widely cited scientists in different disciplines.
- May 2021 **Launch of the start-up company [Adaptive Architecture Systems](#).**
- January 2021 The **COLLECTiEF proposal was evaluated 15/15** (Excellence=Excellent-5, Impact=Excellent-5, Quality and efficiency of the implementation=Excellent-5). **It was selected out of 63 submitted proposals.**
- March 2019 **Best Paper Award 2016–Second place** for the paper “A Review of systems and Technologies for Smart Homes and Smart Grids” from *Energies*.
- December 2018 **2018 Best Paper Award** for the paper “Development of the ASHRAE Global Thermal Comfort Database II” from *Building and Environment*.
- November 2018 Rewarded as an **Outstanding reviewer** by *Building and Environment*.
- June 2017 Rewarded as an **Outstanding reviewer** by *Applied Energy*.
- January 2017 Rewarded as an **Outstanding reviewer** by *Energy and Buildings*.
- January 2015 Rewarded as an **Outstanding reviewer** by *Building and Environment*.
- November 2014 The paper “*Assessing gaps and needs for integrating building performance optimization tools in net zero energy buildings design*” was rewarded as **Highly cited paper** because it “received enough citations to place it in the top 1% of its academic field based on a highly cited threshold for the field and publication year.” (Web of Knowledge accessed on 09/04/2014).
- November 2014 Rewarded as an **Outstanding reviewer** by *Energy and Buildings*.
- 08/2013–10/2014 **Fellowship**, “Building with high performance envelopes, ‘Passivhaus’ and ‘Zero–Energy Building’ and comfort analysis”, Politecnico di Milano, Milan, Italy.

- 02/2012–07/2013 **Fellowship**, “Adaptation of the concepts Passivhaus and Zero–Energy Building to the Lombardy and Italian contests: analysis of open issues and implementation of pilot projects”, Politecnico di Milano, Milan, Italy.
- 01/2007–01/2009 **Fellowship**, “Low–energy housing: technical issues and simulation of the thermal and energy behavior”, Politecnico di Milano, Milan, Italy.

## Personal skills

### Language skills

	Understanding <sup>1</sup>		Speaking <sup>1</sup>		Writing <sup>1</sup>	
	Listening	Reading	Spoken interaction	Spoken production		
Italian <sup>2</sup>	C2 Proficient	C2 Proficient	C2 Proficient	C2 Proficient	C2 Proficient	C2 Proficient
English	C1 Proficient	C1 Proficient	C1 Proficient	C1 Proficient	C1 Proficient	C1 Proficient
Norwegian	B2 Independent	B2 Independent	B2 Independent	B2 Independent	B2 Independent	B2 Independent

<sup>1</sup> Common European framework of reference for languages

<sup>2</sup> Mother tongue

### Computer skills and competences

BPS	IDA–ICE, EnergyPlus and several interfaces (DesignBuilder, Open Studio), TRNSYS, Passive House Planning Package (PHPP), RETScreen
Process integration	modeFRONTIER
Optimization	GenOpt, MoBO, JePlus+EA
Statistics	IBM SPSS Statistics
Heat transfer	Therm, Windows, Calumen II
CAD	Autodesk AutoCAD (2D, 3D)
3D rendering	Autodesk 3D Studio Max
Image editing	Adobe Photoshop
Programming	EnergyPlus Runtime Language (ERL), Visual Basic for Applications (VBA), Python
Desktop apps	MS Office (Word, Excel, PowerPoint), Apple iWork (Pages, Numbers, Keynote)

## Licenses

Driving license Category B (cars)

## Privacy information consent

23/01/2026 I authorize the processing of personal data contained in my curriculum vitae in accordance with art. 13 of Legislative Decree 196/2003.

Curriculum vitae drawn up pursuant to art. 38, 46, 47 of Presidential Decree 445/2000. It is hereby declared pursuant to art. 46 and 47 of Presidential Decree 445/2000, in the awareness of the civil and criminal sanctions in the case of untrue statements, preparation or use of false documents, referred to in art. 76 of Presidential Decree 445/2000 that all the states, facts and personal qualities given by the interested party in this Curriculum vitae correspond to the truth.

Salvatore Carlucci