

Mohammad Salehi

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Overview

PhD researcher in building energy systems focused on occupant-centric control and multi-domain indoor environmental quality. My work integrates machine learning with real-world sensor data to design control strategies that enhance comfort while reducing energy consumption. By combining data-driven modeling, simulation, and control design, I aim to develop scalable solutions for intelligent and adaptive buildings.

Education

Ph.D. Energy Engineering 2023 - present

- [The Cyprus Institute](#), Nicosia, Cyprus
- Thesis title: Human-centric model-based predictive control of passive and hybrid solutions

M.Sc. Renewable Energy Engineering 2020 - 2023

- [University of Tehran](#), Tehran, Iran
- Thesis title: Evaluation of the effect of semi-transparent photovoltaic cells, electrochromic coating, and low emissivity glass on atrium efficiency in commercial buildings

B.Sc. Chemical Engineering 2015 - 2020

- [Isfahan University of Technology](#), Isfahan, Iran

Research Interests

- Building automation
- Building control system
- Artificial intelligence application in building
- Indoor environmental quality
- Energy management in buildings

Publications

Salehi, M., Papadopoulos, P., Kyprianou, I., & Carlucci, S. (2025). *Causal Graph-Based Modeling of Indoor Environmental Quality and Energy Performance for Multi-Sensory Control Design in Buildings*. <https://doi.org/10.2139/SSRN.5113662>

Under review

Ghasempour, R., Salehi, M., & Fakouriyan, S. (2024). Comprehensive energy, exergy, and environmental evaluation of integrated heat pipe photovoltaic/thermal systems using multi-

Published

objective optimization. *Applied Thermal Engineering*, 257, 124402. <https://doi.org/10.1016/J.APPLTHERMALENG.2024.124402>

Jahangir, M. H., Salehi, M., & Fakouriyan, S. (2023). Cost of energy consumption of an air conditioning system to reduce the risk of COVID-19 infection in a bank building. *Energy Reports*, 10, 3335–3354. <https://doi.org/10.1016/J.EGYR.2023.09.167> Published

Jahangir, M. H., Salehi, M., & Alimoradiyan, H. (2023). Exergy and environmental analysis of oscillating wave energy converter hybrid with other renewable energy resources: A case study. *Energy Sources, Part B: Economics, Planning, and Policy*, 18(1). <https://doi.org/10.1080/15567249.2023.2219676> Published

Conferences

- 2025** Presented the paper “*Augmentation of Thermal Comfort Data for Occupant-Centric Control Design*” at *Healthy Buildings 2025 (HB2025)*, Reykjavík, Iceland, June 2025.
- 2025** Delivered an invited talk on AI-driven approaches for disaster management, energy efficiency, and crisis response, at the *International Disaster and Risk Conference (IDRC 2025 Cyprus)*, CYENS Centre of Excellence, Nicosia, Cyprus.
- 2024** Presented the paper “*Causal Modelling of Indoor Environmental Quality and Energy for Multi-Sensory Control Design in Buildings*” at the *International Conference on Improving Energy Efficiency in Commercial Buildings and Smart Communities (IEECB&SC’24)*, Frankfurt, Germany

Work Experience

Activities:

- **Participating in secondment**, Research on small subjective datasets, Evaltech Company, 2025.
- **Participating in International Courses**, "Buildings as Energy Systems" *Delft University*, 2022.
- **Spring/Summer Research Grant**, Office of the Vice President for Research, \$125, *University of Maragheh*, 2020.
- **Organizing Committee Member**, Matlab Workshop for Chemical Engineering, *Isfahan University of Technology*, May 2019.
- **Newsletter producer**, Norton journal, *Isfahan University of Technology*, 2015-2019.

Teaching Assistant:

- **Renewable Energy Basics 1**; *Instructor: MH. Jahangir*, University of Tehran, *Fall 2021*.
- **Mass Transfer**; *Instructor: N. Etesami* Isfahan University of Technology, *Spring 2019, Fall 2019*.
- **Material and Energy Balance**; *Instructor: T. Behzad*

- Isfahan University of Technology, *Spring 2017, Fall 2017.*
- **Statics and Mechanics of Materials**; *Instructor: M. Ebrahimi*
University of Maragheh, *Spring 2015.*

Computer Skills

Programming Languages:

- Professional in Matlab and Python
- Familiar with C++ and Java

Software Engineering Environment:

- Professional in EnergyPlus, Design Builder, Homer.
- Familiar with Hysis, Trnsys, GIS.

Awards & Honors

- **Received full scholarship**, *University of Tehran, 2020-present*
- **Ranked first student**, based on overall GPA, among 20 students of Renewable Energy Engineering, *University of Tehran, 2020-2021.*
- **Ranked 24th in the Iranian National University Entrance Exam**, among more than 30,000 students, *2020.*
- **Granted admission from Talented Students for Graduate Study**, *Isfahan University of Technology, 2015-2017.*
- **Ranked third student**, based on overall GPA, among 80 students of the Chemical Engineering Department (all majors), *Isfahan University of Technology, 2015-2020.*
- **Received full scholarship**, *Isfahan University of Technology, 2015-2020*

Supervisor

Salvatore Carlucci
Adjunct Professor
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Cyprus
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Co-Supervisors

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