

ALESSANDRO PRADA

INFORMAZIONI PERSONALI

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INTERESSI DI RICERCA

- Ottimizzazione dell'efficienza energetica degli edifici e degli impianti;
- Prestazioni dinamiche degli involucri edilizi e degli impianti;
- Propagazione dell'incertezza nelle simulazioni energetiche e nei processi di ottimizzazione;
- Misure sperimentali delle prestazioni delle pareti e degli impianti in laboratorio e in situ;
- Migliorare l'accoppiamento degli impianti e degli edifici *nZEB*.

ISTRUZIONE

APRILE 2012 **Dottorato di Ricerca** Ph.D. in Ingegneria Ambientale
Indirizzo Energetica degli Edifici, Università degli Studi di Trento, Trento
Titolo della Tesi: "Energy performance of buildings: modeling of dynamic summer behavior"
Supervisore: Prof. Paolo BAGGIO

OTTOBRE 2007 **Laurea Magistrale** in Ingegneria Civile **110/110**
Indirizzo Strutture, Università degli Studi di Trento, Trento
Titolo della Tesi: "Analisi comparativa dei requisiti minimi delle normative energetiche Europee"
Relatore: Prof. Paolo BAGGIO

ESPERIENZA ACCADEMICA

DIC 2021-> **Professore Associato** in Fisica Tecnica presso il Dipartimento di Ingegneria Civile, Ambientale e Meccanica (DICAM)
Università degli Studi di Trento

FEB 2016- NOV 2021 **Ricercatore** in Fisica Tecnica presso il Dipartimento di Ingegneria Civile, Ambientale e Meccanica (DICAM)
Università degli Studi di Trento

LUG 2012 - GEN 2016 **Assegnista di Ricerca** presso la Facoltà di Scienze e Tecnologie
Libera Università di Bozen/Bolzano

RELATORE DI TESI

Relatore e co-relatore di **55** tesi magistrali e **9** tesi triennali sulle prestazioni energetiche degli edifici e degli impianti presso l'Università di Trento e la Libera Università di Bolzano.

Supervisore e co-supervisore di **4** tesi di Dottorato di ricerca Ph.D. presso l'Università di Trento e la Libera Università di Bolzano.

PROGETTI DI RICERCA RECENTI

| Ref. | Year | Project | Months |
|------|-------------|--|--------|
| P21 | 2023 → | TIMber Buildings for Environmental Respite Euregio Mobility Funds Principal Investigator: F. Morandi | 12 |
| P20 | 2022 → | Innovative solutions for the use of heat pumps in residential buildings in the Alpine climate Fondazione CARITRO - Grant program for Scientific Research Principal Investigator: A. Prada | 24 |
| P19 | 2020 – 2021 | InnerOut - Development of a Simulation model for a prototype air-to-water heat pump FFG - COMET Competence Centers for Excellent Technologies Principal Investigator: A. Prada | 12 |
| P18 | 2019 – 2023 | FLEXHEAT - The energy FLEXibility of enhanced HEAT pumps for the next generation of sustainable buildings PRIN 2017 - Ministero dell'Università e della ricerca Principal Investigator: prof. C. Zilio | 36 |

ESPERIENZA DIDATTICA

MASTER UNIVERSITARI DI 2° LIVELLO

- A.A. 2017 – 2018 MASTER CASACLIMA - LIBERA UNIVERSITÀ DI BOLZANO
Professore a Contratto di *Prestazione energetica delle pareti*
8 ore di lezione sulle misure e sulle simulazione delle prestazioni energetiche delle pareti
- A.A. 2014 – 2015 SCUOLA DI DOTTORATO IN SUSTAINABLE ENERGY AND TECHNOLOGIES - LIBERA UNIVERSITÀ DI BOLZANO
Professore a Contratto di *Tools for empirical and numerical assessment of energy systems*
6 ore di lezione sulla modellazione dinamica degli impianti di climatizzazione
- A.A. 2014 – 2015 MASTER BEAM - IUAV UNIVERSITÀ DI VENEZIA
Professore a Contratto di *Simulazione dinamica degli edifici*
16 ore di lezione sulla simulazione energetica degli edifici e degli impianti
- A.A. 2014 – 2015 MASTER CASACLIMA - LIBERA UNIVERSITÀ DI BOLZANO
Professore a Contratto di *Metodi semplificati per la modellazione energetica degli edifici*
20 ore di lezione sui metodi quasi-stazionari per la modellazione energetica degli edifici e degli impianti
- A.A. 2014 – 2015 MASTER CASACLIMA - LIBERA UNIVERSITÀ DI BOLZANO
Professore a Contratto di *Prestazioni dell'involucro edilizio*
40 ore di lezione sui metodi di prova e di simulazione delle prestazioni dell'involucro edilizio
- A.A. 2008 – 2009 MASTER IDEE - UNIVERSITÀ DEGLI STUDI DI TRENTO
Professore a Contratto di *Progettazione integrata per l'efficienza energetica*
20 ore di lezione sulla simulazione dinamica degli edifici

CORSI DI SPECIALIZZAZIONE POSTLAUREA

- MAG 2016 STED2016 SIMULAZIONE TERMOENERGETICA DEGLI EDIFICI - AiCARR
FORMAZIONE, MILANO
Simulatione energetica degli impianti col software E+
8 ore di seminario sulla modellazione dinamica degli impianti energetici col software E+
- MAR 2015 STED2015 SIMULAZIONE TERMOENERGETICA DEGLI EDIFICI - AiCARR
FORMAZIONE, MILANO
Simulatione energetica degli impianti col software E+
8 ore di seminario sulla modellazione dinamica degli impianti energetici col software E+
- NOV 2014 INNOVATION SCHOOL (NELL'AMBITO DEL PROGETTO ALPBC.EU)
TIS INNOVATION PARK, BOLZANO
Prestazioni energetiche dell'involucro
8 ore di seminario sulle prestazioni energetiche dell'involucro edilizio
- JUN 2014 STED2014 SIMULAZIONE TERMOENERGETICA DEGLI EDIFICI - AiCARR
FORMAZIONE, MILANO
Simulatione energetica degli impianti col software E+
8 ore di seminario sulla modellazione dinamica degli impianti energetici col software E+
- MAR 2011- APR 2011 CORSO FSE - SIMMETRIE SRL, TRENTO
Efficienza Energetica
8 ore di seminario sull'efficienza energetica negli edifici
- SET 2009- OTT 2009 CORSO FSE - CUOA RISORSE IN CRESCITA, ALTAVILLA VICENTINA (VI)
Corso per tecnico in eco-innovazione di processo e prodotto per il risparmio energetico e la riduzione dell'impatto ambientale
12 ore di seminario sull'efficienza energetica nei processi produttivi

CORSI UNIVERSITARI

- A.A. 2015– > LAUREA TRIENNALE IN INGEGNERIA CIVILE - UNIVERSITÀ DEGLI STUDI
DI TRENTO
Professore del corso *Fisica Tecnica*
720 ore di lezione sulla termodinamica e sulla trasmissione di calore e di massa
- A.A. 2015– > LAUREA SPECIALISTICA IN INGEGNERIA ENERGETICA - UNIVERSITÀ DEGLI
STUDI DI TRENTO
Professore del corso *Building HVAC Systems*
136 ore di lezione sugli impianti energetici degli edifici
- A.A. 2013 – 2014 LAUREA TRIENNALE IN INGEGNERIA MECCANICA E INDUSTRIALE - LIB-
ERA UNIVERSITÀ DI BOLZANO
Professore a contratto di *Applicazione delle norme sull'efficienza energetica
degli edifici*
25 ore di lezione sulla certificazione energetica degli edifici, sul bilancio energetico, sulle
leggi e sulla normativa tecnica
- A.A. 2012 – 2013 LAUREA TRIENNALE IN INGEGNERIA MECCANICA E INDUSTRIALE - LIB-
ERA UNIVERSITÀ DI BOLZANO
Esercitatore di *Fisica Tecnica*
43 ore di esercizi sulla termodinamica e sulla trasmissione di calore e di massa
- A.A. 2011 – 2012 LAUREA SPECIALISTICA IN INGEGNERIA AMBIENTALE - UNIVERSITÀ
DEGLI STUDI DI TRENTO
Esercitatore di *Gestione delle risorse energetiche del territorio*
11 ore di lezione sulla gestione delle fonti energetiche e 11 ore di revisione progetti

- A.AA. 2010 ÷ 2012 LAUREA TRIENNALE IN INGEGNERIA INDUSTRIALE - UNIVERSITÀ DEGLI STUDI DI TRENTO
Esercitatore di *Fisica Tecnica*
30 ore di esercizi sulla termodinamica e sulla trasmissione di calore e di massa e 19 ore di attività di supporto
- A.AA. 2009 ÷ 2012 LAUREA IN INGEGNERIA EDILE ARCHITETTURA - UNIVERSITÀ DEGLI STUDI DI TRENTO
Esercitatore di *Fisica Tecnica*
104 ore di esercizi sulla termodinamica e sulla trasmissione di calore e di massa e 94 ore di attività di supporto
- A.AA. 2009 ÷ 2012 LAUREA TRIENNALE IN INGEGNERIA CIVILE - UNIVERSITÀ DEGLI STUDI DI TRENTO
Esercitatore di *Fisica Tecnica*
78 ore di esercizi sulla termodinamica e sulla trasmissione di calore e di massa e 80 ore di attività di supporto
- A.AA. 2008 ÷ 2012 LAUREA SPECIALISTICA IN INGEGNERIA CIVILE - UNIVERSITÀ DEGLI STUDI DI TRENTO
Esercitatore di *Impianti Energetici*
57 ore di lezione sugli impianti energetici e 45 ore di revisione progetti

INCARICHI

- MAR. 2024 Membro del comitato scientifico della Aicarr 53rd Int. Conference
- SINCE 2023 Coordinatore del corso di laurea specialistica inter-universitaria in Energy Engineering
- SINCE 2023 Local coordinator of the Erasmus+ (**ME3+**) Erasmus Mundus Joint Master Degree in Management and Engineering of Environment and Energy +
- SEP. 2023 Membro del comitato scientifico della Aicarr 39th National Conference
- SINCE 2021 DICAM Delegato del dipartimento per la comunicazione
- SEP 2019 Chairman of the session "Validation, Calibration and Uncertainty" at the BS2019 - 16th IBPSA Int. Conference on Building Simulation
- SEP 2018-SEP 2019 Membro del comitato organizzativo di BS 2019 Int. Conference
- JUL 2018 Chairman of the session "Building Simulation & Optimization II" at the 5th Int. High Performance Building Conference at Purdue (USA)
- SEP 2016-FEB 2017 Memberro del comitato scientifico per gli Eventi degli Studenti a BSA 2017
- AUG 2016-DEC 2016 Membro del comitato organizzativo di μ CHP 2016 Conference
- SINCE 2015 Membro del Team di esperti di [Promolegno](#), project of Pro-Holz Austria
- SINCE 2014 Membro del comitato organizzativo di BSA 2015, BSA 2017, BSA 2019, BSA 2022 and BSA 2024 IBPSA - Italy Int. Conferences on Building Simulation Applications

- SINCE 2014 Revisore per le riviste Energy and Buildings, Building and Environment, Journal of Building Performance Simulation, Applied Energy, Energy, Journal of Energy Storage, Applied Thermal Engineering, Building Simulation, Science and Technology for the Built Environment, IEEE Transactions on Control System Technology, International Journal of Thermal Sciences, Construction and Building Materials, Sustainable Cities and Society, Sustainability, Journal of Building Engineering, ASHRAE Transactions and ASME Journal of Pressure Vessel Technology
- JAN 2011-JAN 2015 Membro del Comitato Esecutivo di IBPSA-Italy, Italian chapter of the International Building Performance Simulation Association
- 2007-2012 Membro del Comitato Scientifico di LEED-Italia

LISTA DELLE PUBBLICAZIONI

ARTICOLI IN RIVISTE INDICIZZATE (J)

1. J. Donges, F. Morandi, F. Prada, A. and Cappelletti, and A. Gasparella. Occupants' interaction with building services: Development of a camera-based method for detailed monitoring of windows, shadings, and lights. *Building and Environment*, 248(111078), 2024. [doi:10.1016/j.buildenv.2023.111078](https://doi.org/10.1016/j.buildenv.2023.111078)
2. R. Albertin, **A. Prada**, and A. Gasparella. A novel efficient multi-objective optimization algorithm for expensive building simulation models. *Energy and Buildings*, 297(113433), 2023. [doi:10.1016/j.enbuild.2023.113433](https://doi.org/10.1016/j.enbuild.2023.113433)
3. M. Povoltato, **A. Prada**, S. Verones, S. Debiassi, and P. Baggio. The impact of the energy community composition on its technical and economic performance. *Energies*, 16(5247), 2023. [doi:10.3390/en16145247](https://doi.org/10.3390/en16145247)
4. A. Angelotti, I. Mazzarella, C. Cornaro, F. Frasca, **A. Prada**, P. Baggio, I. Ballarini, G. De Luca, and V. Corrado. Calibrating the dynamic energy simulation model for an existing building: lessons learned from a collective exercise. *Energies*, 16(2979), 2023. [doi:10.3390/en16072979](https://doi.org/10.3390/en16072979)
5. E. Roccatello, **A. Prada**, P. Baggio, and M. Baratieri. Impact of startup and defrosting on the modeling of hybrid systems in building energy simulations. *Journal of Building Engineering*, 65, 2023. [doi:10.1016/j.jobe.2022.105767](https://doi.org/10.1016/j.jobe.2022.105767)
6. M. Povoltato, **A. Prada**, S. Verones, and P. Baggio. On the effect of the time interval base and home appliance on the renewable quota of building energy consumption. *Energies*, 16(1), 2023. [doi:10.3390/en16010384](https://doi.org/10.3390/en16010384)
7. E. Roccatello, **A. Prada**, P. Baggio, and M. Baratieri. Analysis of the influence of control strategy and heating loads on the performance of hybrid heat pump systems for residential buildings. *Energies*, 15(3), 2022. [doi:10.3390/en15030732](https://doi.org/10.3390/en15030732)
8. M. Busselli, D. Cassol, **A. Prada**, and I. Giongo. Timber based integrated techniques to improve energy efficiency and seismic behaviour of existing masonry buildings. *Sustainability*, 13, 2021. [doi:10.3390/su131810379](https://doi.org/10.3390/su131810379)
9. N. Franzoi, **A. Prada**, S. Verones, and P. Baggio. Enhancing the PV self-consumption through energy communities in heating dominated climates. *Energies*, 14(14), 2021. [doi:10.3390/en14144165](https://doi.org/10.3390/en14144165)
10. N. Bishara, G. Pernigotto, **A. Prada**, M. Baratieri, and A. Gasparella. Experimental determination of the building envelopes dynamic thermal characteristics in consideration of hygrothermal modelling assessment of methods and sources of uncertainty. *Energy and Buildings*, 236, 2021. [doi:10.1016/j.enbuild.2021.110798](https://doi.org/10.1016/j.enbuild.2021.110798)
11. M. Pinamonti, I. Beausoleil-Morrison, **A. Prada**, and P. Baggio. Water-to-water heat pump integration in a solar seasonal storage system for space heating and domestic hot water production of a single family house in a cold climate. *Solar Energy*, 213:300–311, 2021. [doi:10.1016/j.solener.2020.11.052](https://doi.org/10.1016/j.solener.2020.11.052)
12. M. Pinamonti, **A. Prada**, and P. Baggio. Rule-based control strategy to increase photovoltaic self-consumption of a modulating heat pump using water storages and building mass activation. *Energies*, 13(23), 2020. [doi:10.3390/en13236282](https://doi.org/10.3390/en13236282)
13. D. Viesi, L. Crema, S. Mahbub, S. Verones, R. Brunelli, P. Baggio, M. Fauri, **A. Prada**, A. Bello, B. Nodari, S. Silestri, and L. Tomasi. Integrated and dynamic energy modelling of a regional system: a cost-optimized approach in the deep decarbonisation of the Province of Trento (Italy). *Energy*, 209, 2020. [doi:10.1016/j.energy.2020.118378](https://doi.org/10.1016/j.energy.2020.118378)
14. F. Asdrubali, P. Baggio, **A. Prada**, G. Grazieschi, and C. Guattari. Dynamic life cycle assessment modelling of a NZEB building. *Energy*, 191, 2020. [doi:10.1016/j.energy.2019.116489](https://doi.org/10.1016/j.energy.2019.116489)
15. G. Pernigotto, **A. Prada**, and Gasparella. Extreme reference years for building energy performance simulation. *Journal of Building Performance Simulation*, 13(2):152–166, 2020. [doi:10.1080/19401493.2019.1585477](https://doi.org/10.1080/19401493.2019.1585477)

16. E. Bee, **A. Prada**, and P. Baggio. Demand-Side Management of Air-Source Heat Pump and Photovoltaic Systems for Heating Applications in the Italian Context. *Environments*, 5(12):1–12, 2018. doi:[10.3390/environments5120132](https://doi.org/10.3390/environments5120132)
17. E. Bee, **A. Prada**, P. Baggio, and E. Psimopoulos. Air-source heat pump and photovoltaic systems for residential heating and cooling: potential of self-consumption in different European. *Building Simulation: an International Journal*, 2018. doi:[10.1007/s12273-018-0501-5](https://doi.org/10.1007/s12273-018-0501-5)
18. **A. Prada**, A. Gasparella, and P. Baggio. On the performance of meta-models in building design optimization. *Applied Energy*, 225:814–826, 2018. doi:[10.1016/j.apenergy.2018.04.129](https://doi.org/10.1016/j.apenergy.2018.04.129)
19. **A. Prada**, G. Pernigotto, P. Baggio, and A. Gasparella. Uncertainty propagation of material properties in energy simulation of existing residential buildings: the role of building features. *Building Simulation: an International Journal*, 11:449–464, 2018. doi:[10.1007/s12273-017-0418-4](https://doi.org/10.1007/s12273-017-0418-4)
20. P. Vullo, A. Passera, R. Lollini, **A. Prada**, and A. Gasparella. Implementation of a multi-criteria and performance-based procurement procedure for energy retrofitting of facades during early design. *Sustainable Cities and Society*, 36:363–377, 2018. doi:[10.1016/j.scs.2017.09.029](https://doi.org/10.1016/j.scs.2017.09.029)
21. G. Pernigotto, **A. Prada**, F. Cappelletti, and A. Gasparella. Impact of reference years on the outcome of multi-objective optimization for building energy refurbishment. *Energies*, 10(11):1–24, 2017. doi:[10.3390/en10111925](https://doi.org/10.3390/en10111925)
22. E. Carlon, M. Schwarz, **A. Prada**, L. Golicza, V. K. Verma, M. Baratieri, W. Haslinger, and C. Schmidl. On-site monitoring and dynamic simulation of a low energy house heated by a pellet boiler. *Energy and Buildings*, 116:296–306, 2016. doi:[10.1016/j.enbuild.2016.01.001](https://doi.org/10.1016/j.enbuild.2016.01.001)
23. E. Carlon, M. Schwarz, L. Golicza, V. K. Verma, **A. Prada**, M. Baratieri, W. Haslinger, and C. Schmidl. Efficiency and operational behavior of small-scale pellet boilers installed in residential buildings. *Applied Energy*, 155:854–865, 2015. doi:[10.1016/j.apenergy.2015.06.025](https://doi.org/10.1016/j.apenergy.2015.06.025)
24. P. Penna, **A. Prada**, F. Cappelletti, and A. Gasparella. Multi-objective optimization for existing buildings retrofitting under government subsidization. *Science and Technology for the Built Environment*, 21:847–861, 2015. doi:[10.1080/23744731.2015.1028867](https://doi.org/10.1080/23744731.2015.1028867)
25. D. Prando, **A. Prada**, F. Ochs, A. Gasparella, and M. Baratieri. Analysis of the energy and economic impact of cost-optimal buildings refurbishment on district heating systems. *Science and Technology for the Built Environment*, 21:876–891, 2015. doi:[10.1080/23744731.2015.1040343](https://doi.org/10.1080/23744731.2015.1040343)
26. P. Penna, **A. Prada**, F. Cappelletti, and A. Gasparella. Multi-objectives optimization of energy efficiency measures in existing buildings. *Energy and Buildings*, 95:57 – 69, 2015. doi:[10.1016/j.enbuild.2014.11.003](https://doi.org/10.1016/j.enbuild.2014.11.003)
27. E. Carlon, V. K. Verma, M. Schwarz, L. Golicza, **A. Prada**, M. Baratieri, W. Haslinger, and C. Schmidl. Experimental validation of a thermodynamic boiler model under steady state and dynamic conditions. *Applied Energy*, 138:505 – 516, 2015. doi:[10.1016/j.apenergy.2014.10.031](https://doi.org/10.1016/j.apenergy.2014.10.031)
28. G. Pernigotto, **A. Prada**, D. Cóstola, A. Gasparella, and J.L.M. Hensen. Multi-year and reference year weather data for building energy labelling in north Italy climates. *Energy and Buildings*, 72:62 – 72, 2014. doi:[10.1016/j.enbuild.2013.12.012](https://doi.org/10.1016/j.enbuild.2013.12.012)
29. **A. Prada**, F. Cappelletti, P. Baggio, and A. Gasparella. On the effect of material uncertainties in envelope heat transfer simulations. *Energy and Buildings*, 71:53 – 60, 2014. doi:[10.1016/j.enbuild.2013.11.083](https://doi.org/10.1016/j.enbuild.2013.11.083)
30. F. Cappelletti, **A. Prada**, P. Romagnoni, and A. Gasparella. Passive performance of glazed components in heating and cooling of an open-space office under controlled indoor thermal comfort. *Building and Environment*, 72:131 – 144, 2014. doi:[10.1016/j.buildenv.2013.10.022](https://doi.org/10.1016/j.buildenv.2013.10.022)
31. G. Pernigotto, **A. Prada**, A. Gasparella, and J.L.M. Hensen. Analysis and improvement of the representativeness of EN ISO 15927-4 reference years for building energy simulation. *Journal of Building Performance Simulation*, 7(6):391 – 410, 2014. doi:[10.1080/19401493.2013.853840](https://doi.org/10.1080/19401493.2013.853840)
32. P. Baggio and **A. Prada**. Thermal dynamic behavior of a single component: experimental analysis and numerical modeling. *Scientific Bulletin Journal*, 74(1):101–108, 2012. Available online: http://www.scientificbulletin.upb.ro/rev_docs_arhiva/rez257_636181.pdf

LIBRI (B)

1. G. Pernigotto, F. Patuzzi, **A. Prada**, V. Corrado, and A. Gasparella, editors. *Building Simulation Applications BSA 2022 - Proceedings of the 5th IBPSA-Italy conference*. BU Press- Bozen-Bolzano University Press, 2022. ISBN 978-88-6046-191-9. doi:10.13124/9788860461919
2. G. Pernigotto, F. Patuzzi, **A. Prada**, V. Corrado, and A. Gasparella, editors. *Building Simulation Applications BSA 2019 - Proceedings of the 4th IBPSA-Italy conference*. BU Press- Bozen-Bolzano University Press, 2019. ISBN 978-88-6046-176-6. doi:10.13124/9788860461766
3. G. Pernigotto, F. Patuzzi, **A. Prada**, V. Corrado, and A. Gasparella, editors. *Building Simulation Applications BSA 2017 - Proceedings of the 3rd IBPSA-Italy conference*. BU Press- Bozen-Bolzano University Press, 2018. ISBN 978-88-6046-136-0. doi:10.13124/9788860461360
4. P. Baggio, R. Perneti, and **A. Prada**. *Simulazione energetica degli edifici esistenti. Guida alla definizione di modelli calibrati*. Riqualificazione energetica degli edifici. EPC Libri, 2013. ISBN 9788863104530

CAPITOLO DI LIBRO (CB)

1. R. Perneti, **A. Prada**, and P. Baggio. *The calibration process of building energy models*, chapter in "Building Refurbishment for Energy Performance - A Global Approach", pages 215–252. Green Energy and Technology. Springer International Publishing Switzerland, 2014. ISBN 978-3-319-03073-9. doi:10.1007/978-3-319-03074-6_5
2. F. Cappelletti, P. Penna, **A. Prada**, and A. Gasparella. *Development of algorithms for building retrofit*, chapter in "Start-Up Creation: the smart eco-efficient built environment", pages 349 – 373. Green Energy and Technology. Woodhead Publishing, 2016. ISBN 978-0-08-100546-0. doi:10.1016/B978-0-08-100546-0.00014-5

TESI E REPORT (OR)

1. V.A. *Piano Energetico Ambientale Provinciale 2021-2030*. Provincia Autonoma di Trento, 2021. Available online: http://www.provincia.tn.it/binary/pat_agenzia_energia/peap/ALLEGATO_1_compresso.1614862660.pdf
2. **A. Prada**. *Energy Performance of Buildings : Modeling of Dynamic Summer Behavior*. Ph.d. thesis, University of Trento, 2012. Available online: <http://eprints-phd.biblio.unitn.it/770/>
3. V.A. *GBC Home: edifici residenziali*, chapter Energy and Atmosphere. GBC Italy, 2011. ISBN 978889535119-3. Available online: <http://www.gbcsitalia.org/risorse/114>
4. V.A. *Green Building: nuove costruzioni e ristrutturazioni*, chapter Energy and Atmosphere. GBC Italy, 2010. ISBN 9788895351223. Available online: <http://www.gbcsitalia.org/risorse/90>

ALTRE RIVISTE (OJ)

1. **A. Prada**, A. Gasparella, and P. Baggio. A Comparison of Three Evolutionary Algorithms for the Optimization of Building Design. *Applied Mechanics and Materials*, 887:140–147, 2019. doi:10.4028/www.scientific.net/AMM.887.140
2. G. Pernigotto, **A. Prada**, and A. Gasparella. Development of Extreme Reference Years for Building Energy Simulation Scenarios. *Applied Mechanics and Materials*, 887:129–139, 2019. doi:10.4028/www.scientific.net/AMM.887.129
3. **A. Prada**, R. Marchiori, R. Albatici, and P. Baggio. La simulazione dinamica come strumento per l'audit energetico. *La Termotecnica*, LXV(4):59–63, 2011. Available online: <http://www.cti2000.it/index.php?controller=pubblicazioni&action=show&id=35534>
4. M. Baratieri, **A. Prada**, A. Gasparella, and P. Baggio. Dynamic behavior of the building envelope: theoretical predictions and experimental analysis. *Building physics in theory and practice*, IV(1):5–10, 2009. Available online: <https://www.infona.pl/resource/bwmeta1.element.baztech-article-L0D6-0009-0001>
5. **A. Prada**, M. Baratieri, P. Baggio, and A. Gasparella. Dynamic simulation of buildings: comparison

between different approaches. *Building physics in theory and practice*, V(1):41–46, 2010. Available online: <https://www.infona.pl/resource/bwmeta1.element.baztech-article-L0D6-0022-0028>

ATTI DI CONFERENZE INTERNAZIONALI (IC)

1. G. Pernigotto, **A. Prada**, and A. Gasparella. Assessment Of The Accuracy Of Solar Irradiance Models In Mountain Locations: The Case Of Bolzano, Italy. In *in Proceedings of 7th Int. High Performance Building Conference*, West Lafayette (USA), 2022. Available online: <https://docs.lib.purdue.edu/ihpbc/403/>
2. J. Donges, F. Morandi, **A. Prada**, F. Cappelletti, and A. Gasparella. Development of a Camera-based Tool to Monitor Non-binary Occupants' Interaction with Windows and Shadings. In *in Proceedings of 7th Int. High Performance Building Conference*, West Lafayette (USA), 2022. Available online: <https://docs.lib.purdue.edu/ihpbc/409/>
3. F. Morandi, J. Donges, I. Pittana, **A. Prada**, F. Cappelletti, and A. Gasparella. Modelling occupants' behaviour to improve the building performance simulation of classrooms. In *proceedings of 5th IBPSA Italy conference*, pages 403–409, Bozen/Bolzano, 2022. doi: [10.13124/9788860461919_50](https://doi.org/10.13124/9788860461919_50)
4. M. Danovska, **A. Prada**, and P. Baggio. Calibration of the Energy Simulation Model of a Library with a Meta-Model-Based Optimization Approach. In *proceedings of 5th IBPSA Italy conference*, pages 417–425, Bozen/Bolzano, 2022. doi: [10.13124/9788860461919_52](https://doi.org/10.13124/9788860461919_52)
5. E. Roccatello, M. Prada, A. Baratieri, and P. Baggio. Development of a detailed model of hybrid system composed by air-to-water heat pump and boiler. In *proceedings of 5th IBPSA Italy conference*, pages 427–435, Bozen/Bolzano, 2022. doi: [10.13124/9788860461919_53](https://doi.org/10.13124/9788860461919_53)
6. M. Povolato, **A. Prada**, and P. Baggio. Effect of the Time Interval Base on the Calculation of the Renewable Quota of Building in an Alpine Context. In *proceedings of 5th IBPSA Italy conference*, pages 525–532, Bozen/Bolzano, 2022. doi: [10.13124/9788860461919_64](https://doi.org/10.13124/9788860461919_64)
7. G. Pernigotto, **A. Prada**, A. Gevorgian, and A. Gasparella. Impact of solar radiation modelling on the simulated building energy performance in the climate of Bolzano, Italy. In *proceedings of 5th IBPSA Italy conference*, pages 515–523, Bozen/Bolzano, 2022. doi: [10.13124/9788860461919_63](https://doi.org/10.13124/9788860461919_63)
8. A. Gasparella, D. B. Crawley, G. Pernigotto, **A. Prada**, and L. K. Lawrie. Extreme weather data in building performance simulation. In *in Proceedings of BS 2021 - 17th International Conference of Building Simulation*, pages 849–901, Bruges (Belgium), 2021. Available online: https://publications.ibpsa.org/conference/paper/?id=bs2021_30790
9. I. Pittana, R. Albertin, **A. Prada**, F. Cappelletti, and A. Gasparella. Exploring the possibility of calibrating a whole-building model from the short-term monitoring of selected reference rooms. In *in Proceedings of BS 2021 - 17th International Conference of Building Simulation*, pages 1912–1919, Bruges (Belgium), 2021. Available online: https://publications.ibpsa.org/conference/paper/?id=bs2021_30689
10. J. Donges, **A. Prada**, F. Cappelletti, and A. Gasparella. Impact of occupant behavior on performance optimized building retrofits. In *in Proceedings of BS 2021 - 17th International Conference of Building Simulation*, pages 3686–3693, Bruges (Belgium), 2021. Available online: https://publications.ibpsa.org/conference/paper/?id=bs2021_30965
11. J. Donges, **A. Prada**, F. Cappelletti, and A. Gasparella. The Role of Occupant Behavior Models in Multi-Objective Optimization Analysis. In *in Proceedings of 6th Int. High Performance Building Conference*, West Lafayette (USA), 2021. Available online: <https://docs.lib.purdue.edu/ihpbc/346/>
12. M. Pianmonti, **A. Prada**, and P. Baggio. Demand Side Management and Battery Storage Utilization to Increase PV Self-consumption of a Modulating Heat Pump. In *in Proceedings of 6th Int. High Performance Building Conference*, West Lafayette (USA), 2021. Available online: <https://docs.lib.purdue.edu/ihpbc/347/>
13. E. Roccatello, **A. Prada**, P. Baggio, C. Zambrelli, and M. Baratieri. Simulation Of Efficiency Of Different Configurations Of Residential Hybrid Heating Systems Combining Boiler And Heat Pump. In *in Proceedings of 6th Int. High Performance Building Conference*, West Lafayette (USA), 2021. Available online: <https://docs.lib.purdue.edu/ihpbc/388/>

14. **A. Prada**, A. Gasparella, and P. Baggio. A Robust Approach For The Calibration Of the Material Properties in an Existing Wall. In *Proceedings of BS 2019 - 16th International Conference of Building Simulation*, pages 4554–4561, Rome (Italy), 2019. doi:10.26868/25222708.2019.210570
15. A. Angelotti, M. Ballabio, L. Mazzarella, C. Cornaro, G. Parente, F. Frasca, **A. Prada**, P. Baggio, I. Ballarini, G. De Luca, and V. Corrado. Dynamic simulation of existing buildings: considerations on the model calibration. In *Proceedings of BS 2019 - 16th International Conference of Building Simulation*, pages 4165–4172, Rome (Italy), 2019. Available online: http://www.ibpsa.org/proceedings/BS2019/BS2019_210439.pdf, doi:10.26868/25222708.2019.210439
16. M. Pinamonti, **A. Prada**, and P. Baggio. Control strategies to increase the photovoltaic self-consumption for air-source heat pump systems. In *proceedings of 4th IBPSA Italy conference*, pages 259–266, Bozen/Bolzano, 2019. Available online: <http://pro.unibz.it/library/bupress/publications/fulltext/9788860461766.pdf>, doi:10.13124/9788860461766_32
17. M. Libralato, G. Pernigotto, **A. Prada**, A. De Angelis, O. Saro, and A. Gasparella. Design and Evaluation of Extreme Moisture Reference Years for Moisture-Related Risk Assessments. In *proceedings of 4th IBPSA Italy conference*, pages 191–199, Bozen/Bolzano, 2019. Available online: <http://pro.unibz.it/library/bupress/publications/fulltext/9788860461766.pdf>, doi:10.13124/9788860461766_24
18. A. Maiolatesi, **A. Prada**, F. Luce, G. Massari, and P. Baggio. Analysis of the surroundings impact on the building energy performance by means of a BIM analytical model coupled. In *proceedings of 4th IBPSA Italy conference*, pages 315–322, Bozen/Bolzano, 2019. Available online: <http://pro.unibz.it/library/bupress/publications/fulltext/9788860461766.pdf>, doi:10.13124/9788860461766_39
19. I. Pittana, **A. Prada**, F. Cappelletti, and A. Gasparella. Multi-stage multi-level calibration of a School Building energy model. In *proceedings of 4th IBPSA Italy conference*, pages 29–36, Bozen/Bolzano, 2019. Available online: <http://pro.unibz.it/library/bupress/publications/fulltext/9788860461766.pdf>, doi:10.13124/9788860461766_05
20. G. Pappaccogli, G. Pernigotto, **A. Prada**, and A. Gasparella. Assessing solar radiation in the urban area of Bolzano, Italy, by means of SEBE simulations. In *proceedings of 4th IBPSA Italy conference*, pages 85–90, Bozen/Bolzano, 2019. Available online: <http://pro.unibz.it/library/bupress/publications/fulltext/9788860461766.pdf>, doi:10.13124/9788860461766_11
21. G. Pappaccogli, G. Pernigotto, **A. Prada**, and A. Gasparella. Sensitivity analysis of SEBE model using different meteorological input: A case study in Bolzano, Italy. In *proceedings of 4th IBPSA Italy conference*, pages 101–108, Bozen/Bolzano, 2019. Available online: <http://pro.unibz.it/library/bupress/publications/fulltext/9788860461766.pdf>, doi:10.13124/9788860461766_13
22. **A. Prada** and P. Baggio. The role of occupant’s behaviors in high performance social housings. In *51st AICARR International Conference*, pages 395–405, Venice (Italy), 2019
23. **A. Prada**, G. Pernigotto, and A. Gasparella. Use of extreme reference years in building retrofit optimization. volume 48, pages 74–81, Belgrade (SRB), 2019. Available online: <https://izdanja.smeits.rs/index.php/kgg/article/view/4335>
24. A. Angelotti, M. Martire, L. Mazzarella, M. Pasini, I. Ballarini, V. Corrado, G. De Luca, P. Baggio, **A. Prada**, F. Bosco, and C. Cornaro. Building Energy Simulation for Nearly Zero Energy Retrofit Design: the Model Calibration. In *Proceedings of 18th IEEE Int. Conference on Environment and Electrical Engineering*, Palermo (ITA), 2018. doi:10.1109/EEEIC.2018.8493777.
25. **A. Prada**, F. Cappelletti, and A. Gasparella. Optimization of government subsidization strategies for building stock energy refurbishment. In *Proceedings of IBPC2018 - 7th Int. Building Physics Conference*, Syracuse (USA), 2018. Available online: <https://surface.syr.edu/ibpc/2018/PE1/4/>
26. **A. Prada**, A. Gasparella, and P. Baggio. An Efficient Global Optimization Scheme for Building Energy Simulation Based on Linear Radial Basis Function. In *Proceedings of 5th Int. High Performance Building Conference*, West Lafayette (USA), 2018. Available online: <https://docs.lib.purdue.edu/ihpbc/301/>
27. E. Bee, **A. Prada**, and P. Baggio. Rule Based Control Strategies of Thermal Storage in Residential Heating Systems with Air-Source Heat Pump and Photovoltaic Panels. In *Proceedings of 5th Int.*

- High Performance Building Conference*, West Lafayette (USA), 2018. Available online: <https://docs.lib.purdue.edu/ihpbc/268/>
28. E. Bee, **A. Prada**, and P. Baggio. Air Source Heat Pump Systems: Control Strategy Based on the Knowledge of the Time Evolution of the Electricity Price in the Italian Context. In *Proceedings of 5th Int. High Performance Building Conference*, West Lafayette (USA), 2018. Available online: <https://docs.lib.purdue.edu/ihpbc/267/>
 29. **A. Prada**, A. Gasparella, and P. Baggio. A comparison of three evolutionary algorithms for the optimization of building design. In *Proceedings of enviBUILD 2017 - 12th International Conference*, Vienna (USA), 2017. Available online: <https://www.scientific.net/AMM.887.140>
 30. G Pernigotto, **A. Prada**, and A. Gasparella. Development of extreme reference years for building energy simulation scenarios. In *Proceedings of enviBUILD 2017 - 12th International Conference*, Vienna (USA), 2017. Available online: <https://www.scientific.net/AMM.887.129>
 31. **A. Prada**, E. Bee, A. Gasparella, and P. Baggio. On the optimization of the air source heat pump integration in high performance buildings. In *Proceedings of BS 2017 - 15th International Conference of Building Simulation*, pages 150–159, San Francisco (USA), 2017. Available online: www.ibpsa.org/proceedings/BS2017/BS2017_291.pdf
 32. G. Pernigotto, **A. Prada**, F. Cappelletti, and A. Gasparella. Influence of Solar Irradiance Models on the Selection of Optimal Refurbishment Measure. In *Proceedings of BS 2017 - 15th International Conference of Building Simulation*, pages 448–457, San Francisco (USA), 2017. Available online: www.ibpsa.org/proceedings/BS2017/BS2017_090.pdf
 33. E. Bee, **A. Prada**, and P. Baggio. Inverter-Driven Heat Pumps for Space Heating: Comparisons of Air-to-Water and Air-to-Air Units. In *Proceedings of BS 2017 - 15th International Conference of Building Simulation*, pages 1190–1195, San Francisco (USA), 2017. Available online: www.ibpsa.org/proceedings/BS2017/BS2017_127.pdf
 34. **A. Prada**, M. Bee, E. and Grigante, and P. Baggio. On the optimal mix between lead-acid battery and thermal storage tank for PV and heat pump systems in high performance buildings. *Energy Procedia*, 140:423–433, 2017. doi:10.1016/j.egypro.2017.11.154
 35. E. Bee, **A. Prada**, and P. Baggio. On the influence of Storage Size and Management on the Consumption of Air Source Heat Pumps in High Performance Buildings. In *proceedings of 3rd IBPSA Italy conference*, pages 249–255, Bozen/Bolzano, 2017. Available online: pro.unibz.it/library/bupress/publications/fulltext/9788860461360.pdf, doi:10.13124/9788860461360_31
 36. J. Ratajczak, D. García, A. Polastri, G. Pernigotto, **A. Prada**, M. Baratieri, A. Gasparella, and C. Benedetti. Timber buildings with enhances energy and seismic performance for the Mediterranean region. In *WCTE 2016 - World Conference on Timber Engineering*, pages 3142–3151, Vienna (Austria), 2016. TU Wien. ISBN 978-3-903039-00-1
 37. E. Bee, **A. Prada**, and P. Baggio. Optimization of Air Source Heat Pump Systems over the Heating Season through the Use of Renewable Energy Sources. In *4th Int. High Performance Building Conference*, West Lafayette (USA), 2016. Available online: <https://docs.lib.purdue.edu/ihpbc/205/>
 38. P. Penna, **A. Prada**, F. Cappelletti, and A. Gasparella. Influence Of Building Management On Cost Optimality Definition In Residential Buildings Retrofitting. In *4th Int. High Performance Building Conference*, West Lafayette (USA), 2016. Available online: <https://docs.lib.purdue.edu/ihpbc/210/>
 39. N. Bishara, **A. Prada**, G. Pernigotto, M. Baratieri, and A. Gasparella. Analysis of the Measurements Reliability in Dynamic Test of the Opaque Envelope. In *4th Int. High Performance Building Conference*, West Lafayette (USA), 2016. Available online: <https://docs.lib.purdue.edu/ihpbc/225/>
 40. G Pernigotto, **A. Prada**, P. Baggio, A. Gasparella, and A. Mahdavi. Solar Irradiance Modelling And Uncertainty On Building Hourly Profiles Of Heating And Cooling Energy Needs. In *4th Int. High Performance Building Conference*, West Lafayette (USA), 2016. Available online: <https://docs.lib.purdue.edu/ihpbc/191/>
 41. E. Carlon, M. Schwarz, **A. Prada**, V.J. Verma, M. Baratieri, A. Gasparella, and C. Schmidl.

- Biomass-based heating and hot water supply systems for prefabricated, high energy performance houses: a comparison of system configuration and control strategies. In *CLIMA 2016 - proceedings of the 12th REHVA World Congress, vol. 3*, Aalborg (Denmark), 2016. Aalborg University, Department of Civil Engineering. Available online: http://vbn.aau.dk/files/233716938/paper_520.pdf
42. E. Bee, **A. Prada**, and P. Baggio. Variable-speed air to water heat pumps for residential buildings: evaluation of the performance in Northern Italian climate. In *CLIMA 2016 - proceedings of the 12th REHVA World Congress, vol. 3*, Aalborg (Denmark), 2016. Aalborg University, Department of Civil Engineering. Available online: http://vbn.aau.dk/files/233716874/paper_160.pdf
 43. G. Pernigotto, **A. Prada**, A. Baggio, P. and Gasparella, and A. Mahdavi. Impact of solar irradiation models on simulated hourly energy performance of buildings. In *Proceedings of BS 2015 - 14th International Conference of Building Simulation*, pages 955–962, Hyderabad (India), 2015. Available online: <http://www.ibpsa.org/proceedings/BS2015/p2303.pdf>
 44. **A. Prada**, G. Pernigotto, F. Cappelletti, and A. Gasparella. Impact of solar irradiation models on building refurbishment measures from multi-objective optimization. In *Proceedings of BS 2015 - 14th International Conference of Building Simulation*, pages 2809–2816, Hyderabad (India), 2015. Available online: <http://www.ibpsa.org/proceedings/BS2015/p2257.pdf>
 45. G. Pernigotto, **A. Prada**, F. Cappelletti, and A. Gasparella. Influence of the representativeness of reference weather data in multi-objective optimization of building refurbishment. In *Proceedings of BS 2015 - 14th International Conference of Building Simulation*, pages 2857–2864, Hyderabad (India), 2015. Available online: <http://www.ibpsa.org/proceedings/BS2015/p2395.pdf>
 46. G. Pernigotto, **A. Prada**, A. Patuzzi, F. and Gasparella, and M. Baratieri. Characterization of the dynamic thermal properties of the opaque elements through experimental and numerical tests. *Energy Procedia*, 78:3234–3239, 2015. doi:10.1016/j.egypro.2015.11.786
 47. M. Aldegheri, **A. Prada**, P. Baggio, and M. Chiogna. The role of user behavior modeling on the energy performance simulations. In *proceedings of 2nd IBPSA Italy conference*, pages 331–338, Bozen/Bolzano, 2015. ISBN 978-88-6046-074-5. Available online: <http://www.unibz.it/it/library/Documents/bupress/publications/fulltext/9788860460745.pdf>
 48. **A. Prada**, G. Pernigotto, F. Cappelletti, and A. Gasparella. Robustness of multi-objective optimization of building refurbishment to solar radiation model. In *proceedings of 2nd IBPSA Italy conference*, pages 517–526, Bozen/Bolzano, 2015. ISBN 978-88-6046-074-5. Available online: <http://www.unibz.it/it/library/Documents/bupress/publications/fulltext/9788860460745.pdf>
 49. D. Prando, **A. Prada**, F. Ochs, A. Gasparella, and M. Baratieri. A multi-objective optimization analysis on high-performance buildings connected to district heating-CHP system. In *proceedings of 2nd IBPSA Italy conference*, pages 537–546, Bozen/Bolzano, 2015. ISBN 978-88-6046-074-5. Available online: <http://www.unibz.it/it/library/Documents/bupress/publications/fulltext/9788860460745.pdf>
 50. E. Carlon, **A. Prada**, M. Schwarz, C. Schmidl, M. Baratieri, A. Gasparella, and W. Haslinger. Dynamic simulation and on-site monitoring of a combined solar and pellet system in a low energy house. In *proceedings of 2nd IBPSA Italy conference*, pages 347–352, Bozen/Bolzano, 2015. ISBN 978-88-6046-074-5. Available online: <http://www.unibz.it/it/library/Documents/bupress/publications/fulltext/9788860460745.pdf>
 51. G. Pernigotto, **A. Prada**, F. Patuzzi, M. Baratieri, and A. Gasparella. Experimental characterization of the dynamic thermal properties of opaque elements under dynamic periodic solicitation. In *proceedings of 2nd IBPSA Italy conference*, pages 547–556, Bozen/Bolzano, 2015. ISBN 978-88-6046-074-5. Available online: <http://www.unibz.it/it/library/Documents/bupress/publications/fulltext/9788860460745.pdf>
 52. P. Penna, **A. Prada**, F. Cappelletti, and A. Gasparella. The impact of thermal comfort in multi-objective optimization of buildings refurbishment. In *proceedings of 2nd IBPSA Italy conference*, pages 527–536, Bozen/Bolzano, 2015. ISBN 978-88-6046-074-5. Available online: <http://www.unibz.it/it/library/Documents/bupress/publications/fulltext/9788860460745.pdf>
 53. **A. Prada**, G. Pernigotto, A. Gasparella, and A. Mahdavi. Combined effects of diffuse fraction and tilted surface radiation models. In *ECPPM 2014 - eWork and eBusiness in Architecture, Engineering*

and Construction, pages 251–257, Vienna (Austria), 2015. ISBN 978-1-138-02710-7. Available online: <http://www.crcnetbase.com/doi/abs/10.1201/b17396-45>

54. **A. Prada**, G. Pernigotto, A. Baggio, P. Gasparella, and A. Mahdavi. Effect of solar radiation model on the predicted energy performance of buildings. In *3rd Int. High Performance Building Conference*, West Lafayette (USA), 2014. Available online: <http://docs.lib.purdue.edu/cgi/viewcontent.cgi?article=1129&context=ihpbc>
55. **A. Prada**, G. Pernigotto, F. Cappelletti, A. Gasparella, and J.L.M. Hensen. Robustness of multi-objective optimization of building refurbishment to suboptimal weather data. In *3rd Int. High Performance Building Conference*, West Lafayette (USA), 2014. Available online: <http://docs.lib.purdue.edu/cgi/viewcontent.cgi?article=1130&context=ihpbc>
56. G. Pernigotto, **A. Prada**, A. Gasparella, and J.L.M. Hensen. Development of a set of simplified building models for building simulation. In *3rd Int. High Performance Building Conference*, West Lafayette (USA), 2014. Available online: <http://docs.lib.purdue.edu/cgi/viewcontent.cgi?article=1127&context=ihpbc>
57. D. Prando, **A. Prada**, F. Ochs, A. Gasparella, and M. Baratieri. Enhanced performance buildings connected to district heating systems: multi-objective optimisation analysis. In *3rd Int. High Performance Building Conference*, West Lafayette (USA), 2014. Available online: <http://docs.lib.purdue.edu/cgi/viewcontent.cgi?article=1137&context=ihpbc>
58. Penna, P. and Prada, A. and Cappelletti, F. and Gasparella, A. Enhancing the energy and non-energy performance of existing buildings: a multi-objective approach. In *3rd Int. High Performance Building Conference*, West Lafayette (USA), 2014. Available online: <http://docs.lib.purdue.edu/cgi/viewcontent.cgi?article=1140&context=ihpbc>
59. P. Penna, **A. Prada**, F. Cappelletti, and A. Gasparella. Multi-objectives optimization of Energy Saving Measures in existing buildings. In *Historical and existing buildings: designing the retrofit - 49th AiCARR Int. Conf.*, pages 275–291, Roma (Italy), 2014. ISBN 978-883-95620-18-3
60. P. Penna, **A. Prada**, F. Cappelletti, and A. Gasparella. Optimization of retrofit strategies. In *Advanced Building Skins - 8th Energy Forum*, pages 239–243, Bressanone (Italy), 2013. ISBN 978-3-9812053-6-7
61. **A. Prada**, G. Pernigotto, P. Baggio, and A. Gasparella. The effect of the interaction between suboptimal input data and building features on the simulation results. In *BS2013 - 13th International Conference of the International Building Performance Simulation Association*, Chamberie (France), 2013. Available online: http://www.ibpsa.org/proceedings/BS2013/p_1231.pdf
62. F. Cappelletti, **A. Prada**, P. Romagnoni, and P. Baggio. Determination of Roof Dynamic Thermal Behaviour by Means of in Situ Measurements: the Post-Processing Analysis. In *11th REHVA World Congress*, Prague (Czech Republic), 2013. ISBN 978-80-260-4001-9
63. R. Perneti, **A. Prada**, P., and P. Baggio. Dynamic Simulation as a Tool for Energy Performance Assessment. In *11th REHVA World Congress*, Prague (Czech Republic), 2013. ISBN 978-80-260-4001-9
64. **A. Prada**, P. Baggio, M. Baratieri, and A. Gasparella. The effect of material uncertainties on envelope heat transfer simulations. In *1st IBPSA Italy conference*, pages 283–292, Bozen/Bolzano, 2013. ISBN 978-88-6046-058-5. Available online: <http://www.unibz.it/it/library/Documents/bupress/publications/fulltext/9788860460585.pdf>
65. R. Perneti, **A. Prada**, and Baggio. On the influence of several parameters in energy model calibration: the case of a historical building. In *1st IBPSA Italy conference*, pages 263–272, Bozen/Bolzano, 2013. ISBN 978-88-6046-058-5. Available online: <http://www.unibz.it/it/library/Documents/bupress/publications/fulltext/9788860460585.pdf>
66. **A. Prada**, D.S. Gigli, A. Gasparella, and M. Baratieri. Energy simulation and design of a hot box suitable for dynamic tests of building envelope opaque components. In *1st IBPSA Italy conference*, pages 273–281, Bozen/Bolzano, 2013. ISBN 978-88-6046-058-5. Available online: <http://www.unibz.it/it/library/Documents/bupress/publications/fulltext/9788860460585.pdf>
67. **A. Prada**, P., M. Baratieri, and A. Gasparella. Analysis of the impact of ventilated cavities on the

- performance of opaque components. In *1st IBPSA Italy conference*, pages 353–361, Bozen/Bolzano, 2013. ISBN 978-88-6046-058-5. Available online: <http://www.unibz.it/it/library/Documents/bupress/publications/fulltext/9788860460585.pdf>
68. G. Pernigotto, **A. Prada**, M. Baratieri, P. Baggio, and A. Gasparella. Modelling of the thermal behavior of walls and floors in contact with the ground. In *2nd International High Performance Buildings Conference*, West Lafayette (USA), 2012. Available online: <http://docs.lib.purdue.edu/cgi/viewcontent.cgi?article=1092&context=ihpbc>
69. P. Baggio and **A. Prada**. Thermal dynamic behavior of single component: experimental analysis and numerical modeling. In *5th International Conference on Energy and Environment*, Bucharest (Romania), 2011
70. **A. Prada**, G. Pernigotto, P. Baggio, and A. Gasparella. Summer load evaluation in the Italian climate: sensitivity of the loss utilization factor to the weather data. In *BS2011 - 12th International Conference of the International Building Performance Simulation Association*, Sydney (Australia), 2011. ISBN 978-0-646-56510-1. Available online: http://www.ibpsa.org/proceedings/BS2011/P_1744.pdf
71. **A. Prada**, P. Pancheri, P. Baggio, M. Baratieri, and G. Libardoni. Experimental analysis and modeling of the thermal performance of ventilated roofs. In *10th REHVA World Congress "Sustainable Energy use in buildings"*, Antalya (Turkey), 2010. ISBN 978-975-6907-14-6