

Jan L M Hensen

Eindhoven University of Technology
Building Physics and Services
P.O. Box 513 – Vertigo 6.18
5600 MB EINDHOVEN, Netherlands



j.hensen@tue.nl



Education

Dr. (equiv. Ph.D.), Building Science, Eindhoven University of Technology	1991
Ir. (equiv. M.Sc.), Building Science, Eindhoven University of Technology	1981

Research expertise and interest

Computational modeling and simulation for optimizing design and operation of high-performance buildings in terms of (renewable) energy use and indoor environmental quality

Professional appointments

Emeritus full professor, Building Performance, Eindhoven University of Technology, www.tue.nl/en/research/researchers/jan-hensen/	2019 – date
Full professor, Mechanical Engineering, Czech Technical University in Prague, cvut.cz/usermap/jhensen	2002 – date
Full professor, Building Performance, Eindhoven University of Technology; 2014 – 2019 scientific director post-master PDEng program Smart Buildings & Cities; 2011 – 2017 theme leader Energy in the Built Environment, Eindhoven Energy Institute; 2005 – 2013 head of unit Building Physics & Services; 2001 – 2006 director of research, Centre for Building & Systems TNO-TU Eindhoven	2002 – 2019
Associate professor, Building Science, Eindhoven University of Technology	2000 – 2002
Associate professor, Mechanical Engineering, Czech Technical University in Prague	1999 – 2002
Senior lecturer, Mechanical Engineering, University of Strathclyde, Glasgow	1997 – 1999
Lecturer, Mechanical Engineering, University of Strathclyde, Glasgow	1993 – 1997
Assistant professor, Building Science, Eindhoven University of Technology	1991 – 1993
Research fellow, Building Science, Eindhoven University of Technology	1986 – 1991
Research scientist, TNO Institute of Applied Physics, Delft	1981 – 1986

Awards and honors

Honorary professor in Building Physics Research, Institut Teknologi Bandung, Indonesia	2022
Distinguished Achievement Award, International Building Performance Simulation Association - IBPSA	2019
Honorary professor in Architectural Science, University of Sydney, 3 months	2018
Gold Medal, Dutch Society for Building Services – TVVL	2015
Fellow, International Building Performance Simulation Association – IBPSA	2013
Fellow, Federation of European HVAC Associations – REHVA	2012
Affiliate scientist, Lawrence Berkeley National Laboratory, 6 months	2011
Velux visiting professor, Danish Technical University, 3 months	2010
Distinguished Service Award, American Society of Heating, Refrigerating and Air-Conditioning Engineers - ASHRAE	2009

Professional Award for Achievements in Science, Federation of European HVAC Associations – REHVA	2009
Fellow, American Society of Heating, Refrigerating and Air-Conditioning Engineers - ASHRAE	2008
Visiting professor, Kyoto University, 2 months	2007
Czech Air-conditioning and Ventilation Award, Society of Environmental Technology, Prague	2006
Visiting professor, Federal University of Santa Catarina (Brazil), 3 months	2006
Fulbright senior scholar, Georgia Institute of Technology, Atlanta, 3 months	2003
B.J. Max Award, Dutch Society for Building Services – TVVL	2002
CTU team award for innovation in research and teaching, Czech Technical University in Prague, (also in 2001)	2002
Visiting scientist, Korean Institute for Energy Research, 3 months	1996

Publications

Scientific journal papers:	142	h-index: 48 (Web of Science)
Books and chapters:	17	54 (Scopus)
Papers in conference proceedings:	332+47	68 (Google Scholar)
Professional journal articles:	146	orcid: 0000-0002-7528-4234

Bibliographic details of all my publications are in [Appendix 1](#). The vast majority of these publications are open access online; via e.g. [Scopus](#) or [Google Scholar](#)

Teaching and academic supervision

Developed and taught courses:

- Introduction to building performance simulation
- Capita selecta of building performance simulation
- Building performance and energy systems simulation

Academic supervision:	Total	Completed	In progress
Doctoral candidates	46	37	9
MSc thesis research students	198	191	7

Bibliographic details of the respective theses are in [Appendix 2](#).

Professional memberships and service to profession

Expert evaluator of research proposals/ projects; see [Appendix 3a](#)
Peer reviewer of manuscripts for scientific journals; see [Appendix 3b](#)
External PhD examiner at various universities; see [Appendix 3c](#)

Int. Journal of Low Carbon Technologies, editorial board member	2009 – 2018
Building and Environment; editorial board member	2008 – 2018
Journal for Building Performance Simulation; founding co-editor in chief	2007 – date
Energy and Buildings; editorial board member	2005 – date
International Building Performance Simulation Association – Netherlands + Flanders chapter (IBPSA-NVL); 2001 – 2006 founding president; 2006 – 2011 board member; 2012 – 2016 president	2001 – date
Netherlands Association for Computerization in Building and Installation Technology (VABI); 2000 – 2006 board member; 2006 – 2009 president	2000 – 2009
International Building Performance Simulation Association (IBPSA); 1999 – 2006 vice-president; 2006 – 2010 president; 2010 –	1993 – date

2015 board member; 2016 – date member of several board committees	
American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE); member of several technical committees; 2020 – date: Distinguished Lecturer	1992 – date
Dutch Society for Building Services (TVVL); 2000 – 2010: editorial board member; 2008 – 2011: technical council member	1992 – date

Appendix 1 - Publications

Scientific journal papers

142. Tian, B., Loonen, R. C. G. M. & Hensen, J. L. M., 2023, Combining point cloud and surface methods for modeling partial shading impacts of trees on urban solar irradiance, *Energy and Buildings*, 298.
<https://doi.org/10.1016/j.enbuild.2023.113420>
141. Wang, S., Hoes, P-J., Hensen, J. L. M., Adan, O. C. G. & Donkers, P. A. J., 2023, Investigating the use cases of a novel heat battery in Dutch residential buildings, *Building Simulation*, 1996-8744.
<https://doi.org/10.1007/s12273-023-1069-2>
140. Wang, S., Hoes, P-J., Hensen, J. L. M., Adan, O. C. G. & Donkers, P. A. J., 2023, A design optimization method for solar-driven thermochemical storage systems based on building performance simulation, *Journal of Energy Storage*, 72-B, 108354.
<https://doi.org/10.1016/j.est.2023.108354>
139. Walsh, A., Cóstola, D., Hensen, J.L.M. & Labaki, L.C., 2023, Multi-criterial performance-based climatic zoning of Brazil supported by local experts, *Building and Environment*, 110591
<https://doi.org/10.1016/j.buildenv.2023.110591>
138. Carlucci, F., Loonen, R.C.G.M., Fiorito, F. & Hensen, J. L. M., 2022, A novel approach to account for shape-morphing and kinetic shading systems in building energy performance simulations, *Journal of Building Performance Simulation*,
<https://doi.org/10.1080/19401493.2022.2142294>
137. Tian, B., Loonen, R. C. G. M., Bognár, Á. & Hensen, J. L. M., 2022, Impacts of surface model generation approaches on raytracing-based solar potential estimation in urban areas, *Renewable Energy*, 198, p. 804-824.
<https://doi.org/10.1016/j.renene.2022.08.095>
136. Atthallah, Mangkuto, R.A., Koerniawan, M.D., Hensen, J.L.M. & Yulianto, B., 2022, Optimization of daylighting design using self-shading mechanism in tropical school classrooms with bilateral openings, *Journal of Daylighting* 9 pp. 117-136.
<https://dx.doi.org/10.15627/jd.2022.10>
135. Meng, B., Loonen, R. C. G. M. & Hensen, J. L. M., 2022, Performance variability and implications for yield prediction of rooftop PV systems – Analysis of 246 identical systems, *Applied Energy*, 322, 119550.
<https://doi.org/10.1016/j.apenergy.2022.119550>
134. Alavirad, S., Mohammadi, S., Hoes, P-J., Xu, L. & Hensen, J.L.M., 2022, Future-Proof Energy-Retrofit Strategy for an Existing Dutch Neighbourhood, *Energy & Buildings*,
<https://doi.org/10.1016/j.enbuild.2022.111914>
133. Gkaniatsou, E., Chen, C., Cui, F.S., Zhu, X., Sapin, P., Nouar, F., Boissiere, C., Markides, C.N., Hensen, J.L.M. & Serre, C., 2022, Producing cold from heat with aluminum carboxylate-based metal-organic frameworks, *Cell Reports Physical Science*, 3, 2, 100730.
<https://doi.org/10.1016/j.xcrp.2021.100730>
132. Mangkuto, R.A., Koerniawan, M.D., Apriliyanthi, S.R. Lubis, I.H., Atthallah, A., Hensen, J.L.M. & Paramita, B., 2022, Design optimisation of fixed and adaptive shading devices on four façade orientations of a high-rise office building in the tropics, *Buildings*, 12:1, 25.
<https://doi.org/10.3390/buildings12010025>

131. Bognár, Á., Loonen, R.C.G.M. & Hensen, J.L.M., 2021, Calculating solar irradiance without shading geometry: a point cloud-based method, *Journal of Building Performance Simulation*, 14:5, 480-502
<https://doi.org/10.1080/19401493.2021.1971765>
130. Gkaniatsou, E., Meng, B., Cui, F., Loonen, R.C.G.M., Nouar, F., Serre, C. & Hensen, J.L.M., 2021, Moisture-participating MOF thermal battery for heat reallocation between indoor environment and building-integrated photovoltaics, *Nano Energy*, 87, 106224
<https://doi.org/10.1016/j.nanoen.2021.106224>
129. Vries, S.B. de, Loonen, R.C.G.M. & Hensen, J.L.M., 2021, Multi-state vertical-blinds solar shading – performance assessment and recommended development directions, *Journal of Building Engineering*, 40, 102743.
<https://doi.org/10.1016/j.jobe.2021.102743>
128. Papachristou, C., Hoes, P., Goch, T.A.J. v. & Hensen, J.L.M., 2021. Investigating the energy flexibility of Dutch office buildings on single building level and building cluster level, *Journal of Building Engineering*, 40, 102687.
<https://doi.org/10.1016/j.jobe.2021.102687>
127. Xu, L., Guo, F., Hoes, P.-J., Yang, X. & Hensen, J.L.M., 2021. Investigating energy performance of large-scale seasonal storage in the district heating system of chifeng city – measurements and model-based analysis of operation strategies, *Energy & Buildings*, 247, 111113.
<https://doi.org/10.1016/j.enbuild.2021.111113>
126. Butt, A.A., de Vries, S.B., Loonen, R.C.G.M., Hensen, J.L.M., Stuijver, A., van den Ham, J.E.J. & Erich, B.S.J.F, 2021. Investigating the energy saving potential of thermochromic coatings on building envelopes, *Applied Energy*, 291, 116788.
<https://doi.org/10.1016/j.apenergy.2021.116788>
125. Zhou, Y., Cao, S. & Hensen, J. L. M., 2021. An energy paradigm transition framework from negative towards positive district energy sharing networks: Battery cycling aging, advanced battery management strategies, flexible vehicles-to-buildings interactions, uncertainty and sensitivity analysis, *Applied Energy*, 288, 116606.
<https://doi.org/10.1016/j.apenergy.2021.116606>
124. de Vries, S. B., Loonen, R. C. G. M., & Hensen, J. L. M., 2021. Simulation-aided development of automated solar shading control strategies using performance mapping and statistical classification, *Journal of Building Performance Simulation*, 14, 1.
<https://doi.org/10.1080/19401493.2021.1887355>
123. Ramallo-Gonzalez, A.P., Loonen, R. C. G. M., Tomat, V., Zamora, M.A., Surugin, D. & Hensen, J.L.M., 2020. Nomograms for de-complexing the dimensioning of off-grid PV systems, *Renewable Energy*, 161, 162-172.
<https://doi.org/10.1016/j.renene.2020.06.103>
122. Meng, B., Loonen, R. C. G. M., & Hensen, J.L.M., 2020. Data-driven inference of unknown tilt and azimuth of distributed PV systems, *Solar Energy*, 211, 418-432.
<https://doi.org/10.1016/j.solener.2020.09.077>
121. Luc, K.M., Li, R., Xu, L., Nielsen, T.R. & Hensen, J.L.M., 2020. Energy flexibility potential of a small district connected to a district heating system, *Energy and Buildings*, 225, 110074.
<https://doi.org/10.1016/j.enbuild.2020.110074>
120. Mohammadi, Z., Hoes, P. & Hensen, J.L.M., 2020. Simulation-based design optimization of houses with low grid dependency, *Renewable Energy*, 157, 1185-

1202.

<https://doi.org/10.1016/j.renene.2020.04.157>

119. Zhou, Y., Cao, S., Hensen, J.L.M. & Hasan, A., 2020. Heuristic battery-protective strategy for energy management of an interactive renewables–buildings–vehicles energy sharing network with high energy flexibility, *Energy Conversion and Management*, 214, 112891.
<http://dx.doi.org/10.1016/j.enconman.2020.112891>
118. Bognár, A., Kusnadi, S., Slooff, L.H., Tzikas, C., Loonen, R.C.G.M. Loonen, Jong, M.M. de, Hensen, J.L.M. Hensen, & Debijs, M.G., 2020. The solar noise barrier project 4: Modeling of full-scale luminescent solar concentrator noise barrier panels. *Renewable Energy*, 151, 1141-1149.
<http://dx.doi.org/10.1016/j.renene.2019.11.102>
117. Dvorak, V., Zavrel, V., Torrens Galdiz, J.I. & Hensen, J.L.M., 2020. Simulation-based assessment of data center waste heat utilization using aquifer thermal energy storage of a university campus, *Building Simulation*, 13, 823–836.
<https://doi.org/10.1007/s12273-020-0629-y>
116. Gaetani, I.I., Hoes, P-J., & Hensen, J.L.M., 2020. A stepwise approach for assessing the appropriate occupant behaviour modelling in building performance simulation, *Journal of Building Performance Simulation*, 13:3, 362-377.
<http://dx.doi.org/10.1080/19401493.2020.1734660>
115. Kotireddy, R. R., Loonen, R., Hoes, P-J., & Hensen, J., 2019. Building performance robustness assessment: Comparative study and demonstration using scenario analysis. *Energy and Buildings*, 202: 109362.
<http://dx.doi.org/10.1016/j.enbuild.2019.109362>
114. Kotireddy, R.R., Hoes, P. & Hensen, J.L.M., 2019. Integrating robustness indicators into multi-objective optimization to find robust optimal low-energy building designs. *Journal of Building Performance Simulation*, 12:5, 546-565.
<https://doi.org/10.1080/19401493.2018.1526971>
113. Kosutova, K., Hooff, T. van, Vanderwel, C., Blocken, B. & Hensen, J., 2019. Cross-ventilation in a generic isolated building equipped with louvers: Wind-tunnel experiments and CFD simulations. *Building and Environment*, 154: 263–280.
<http://dx.doi.org/10.1016/j.buildenv.2019.03.019>
112. Lee, C., Hoes, P-J., Costola, D. & Hensen, J.L.M., 2019. Assessing the performance potential of climate adaptive greenhouse shells, *Energy*, 175: 534-545.
<http://dx.doi.org/10.1016/j.energy.2019.03.074>
111. Loonen, R. C. G. M., de Klijn, M. L. & Hensen, J.L.M., 2019. Opportunities and pitfalls of using building performance simulation in explorative R&D contexts. *Journal of Building Performance Simulation*, 12:3, 272-288.
<http://dx.doi.org/10.1080/19401493.2018.1561754>
110. Muroni, A., Gaetani dell'Aquila d'Aragona, I.I., Hoes, P-J. & Hensen, J.L.M., 2019. Occupant behavior in identical residential buildings: A case study for occupancy profiles extraction and application to building performance simulation. *Building Simulation*, 12, 1047–1061.
<http://dx.doi.org/10.1007/s12273-019-0573-x>
109. Šuklje, T., Hamdy, M., Arcar, C., Hensen, J.L.M. & Medved, S., 2019. An inverse modeling approach for the thermal response modeling of green façades. *Applied Energy*, 235: 1447–1456.
<http://dx.doi.org/10.1016/j.apenergy.2018.11.066>

108. Zhou, Y. Cao, S., Hensen, J.L.M. & Lund, P.D., 2019. Energy integration and interaction between buildings and vehicles: A state-of-the-art review. *Renewable and Sustainable Energy Reviews*, 114: 109337.
<http://dx.doi.org/10.1016/j.rser.2019.109337>
107. Bognár, Á., Loonen, R.C.G.M., Valckenborg, R.M.E. & Hensen, J.L.M., 2018. An unsupervised method for identifying local PV shading based on AC power and regional irradiance data. *Solar Energy*, 174: 1068–1077.
<http://dx.doi.org/10.1016/j.solener.2018.10.007>
106. Borgstein, E.H., Lamberts, R., Hensen, J.L.M., 2018. Mapping failures in energy and environmental performance of buildings. *Energy and Buildings*, 158: 476–485.
<http://dx.doi.org/10.1016/j.enbuild.2017.10.038>
105. Capperucci, R., Loonen, R.C.G.M., Hensen, J.L.M. & Rosemann, A.L.P., 2018. Angle-dependent optical properties of advanced fenestration systems – finding a right balance between model complexity and prediction error. *Building Simulation*, 12, 113–127.
<http://dx.doi.org/10.1007/s12273-018-0466-4>
104. Gaetani, I.I., Hoes, P. & Hensen, J.L.M., 2018. Estimating the influence of occupant behavior on building heating and cooling energy in one simulation run, *Applied Energy*, 223: 159–171.
<https://doi.org/10.1016/j.apenergy.2018.03.108>
103. Koenders, S.J.M., Loonen, R.C.G.M., & Hensen, J.L.M., 2018. Investigating the potential of a closed-loop dynamic insulation system for opaque building elements. *Energy and Buildings* 173: 409–427.
<https://doi.org/10.1016/j.enbuild.2018.05.051>
102. Kotireddy, R.R., Hoes, P. & Hensen, J.L.M., 2018. A methodology for performance robustness assessment of low-energy buildings using scenario analysis. *Applied Energy*, 212: 428–442.
<https://doi.org/10.1016/j.apenergy.2017.12.066>
101. Manrique Delgado, B., Kotireddy, R., Cao, S., Hasan, A., Hoes, P., Hensen, J.L.M., & Sirén, K., 2018. Lifecycle cost and CO2 emissions of residential heat and electricity prosumers in Finland and the Netherlands. *Energy Conversion and Management*, 160: 495–508.
<https://doi.org/10.1016/j.enconman.2018.01.069>
100. Soulios, V., Loonen, R.C.G.M., Metavitsiadis, V. & Hensen, J.L.M., 2018. Computational performance analysis of overheating mitigation measures in parked vehicles. *Applied Energy* 231: 635–644.
<https://doi.org/10.1016/j.apenergy.2018.09.149>
99. Xu, L., Torrens Galdiz, J.I., Guo, F., Yang, X. & Hensen, J.L.M., 2018. Application of large underground seasonal thermal energy storage in district heating system: A model-based energy performance assessment of a pilot system in Chifeng, China. *Applied Thermal Engineering*, 137: 319–328.
<https://doi.org/10.1016/j.applthermaleng.2018.03.047>
98. Gaetani, I.I., Hoes, P. & Hensen, J.L.M., 2017. On the sensitivity to different aspects of occupant behaviour for selecting the appropriate modelling complexity in building performance predictions, *Journal of Building Performance Simulation*, 10: 601–611.
<http://dx.doi.org/10.1080/19401493.2016.1260159>
97. Hamdy, M., Carlucci, S., Hoes, P. & Hensen, J.L.M., 2017. The impact of climate change on the overheating risk in dwellings : A Dutch case study. *Building and Environment*, 122: 307 – 323.
<https://doi.org/10.1016/j.buildenv.2017.06.031>

96. Loonen R.C.G.M., Favoino, F., Hensen, J.L.M. & Overend, M., 2017. Review of current status, requirements and opportunities for building performance simulation of adaptive facades, *Journal of Building Performance Simulation*, 10: 205–22.
<http://dx.doi.org/10.1080/19401493.2016.1152303>
95. Menconi, M.E., Chiappini, M., Hensen, J.L. and Grohmann, D., 2017. Thermal comfort optimization of vernacular rural buildings: passive solutions to retrofit a typical farmhouse in central Italy. *Journal of Agricultural Engineering*, 48: 127-136.
<https://doi.org/10.4081/jae.2017.668>
94. Montazeri, H., Toparlar, Y., Blocken, B. & Hensen, J.L.M., 2017. Simulating the cooling effects of water spray systems in urban landscapes: A computational fluid dynamics study in Rotterdam, The Netherlands. *Landscape and Urban Planning*. 159: 85-100.
<http://dx.doi.org/10.1016/j.landurbplan.2016.10.001>
93. O'Brien, W., Gaetani, I.I., Carlucci, S., Hoes, P. & Hensen, J.L.M., 2017. On occupant-centric building performance metrics. *Building and Environment*, 122: 373-385.
<https://doi.org/10.1016/j.buildenv.2017.06.028>
92. Roberz, F., Loonen, R.C.G.M., Hoes P. & Hensen, J.L.M., 2017. Ultra-lightweight concrete: energy and comfort performance evaluation in relation to buildings with low and high thermal mass. *Energy and Buildings*, 138: 432-442.
<http://dx.doi.org/10.1016/j.enbuild.2016.12.049>
91. de Witte, D., de Klijn, M.L., Loonen, R.C.G.M., Hensen, J.L.M., Knaack, U. & Zimmermann, G., 2017. Convective Concrete: Additive Manufacturing to facilitate activation of thermal mass. *Journal of Facade Design and Engineering*, 5: 107-117.
<http://dx.doi.org/10.7480/jfde.2017.1.1430>
90. Borgstein, E.H., Lamberts, R. and J.L.M. Hensen, 2016. Evaluating energy performance in non-domestic buildings: a review, *Energy and Buildings*, 128: 734-755.
<http://dx.doi.org/10.1016/j.enbuild.2016.07.018>
89. Gaetani, I.I., Hoes, P. and J.L.M. Hensen, 2016. Occupant behavior in building energy simulation: towards a fit - for - purpose modeling strategy, *Energy and Buildings*, 121: 188-204
<http://dx.doi.org/10.1016/j.enbuild.2016.03.038> .
88. Hamdy, Mohamed, Anh-Tuan Nguyen & Hensen, J.L.M., 2016. A performance comparison of multi-objective optimization algorithms for solving nearly-zero-energy-building design problems, *Energy and Buildings*, vol. pp. 57–71.
<http://dx.doi.org/10.1016/j.enbuild.2016.03.035>
87. Hoes, P. & Hensen, J.L.M., 2016. The potential of lightweight low-energy houses with hybrid adaptable thermal storage : comparing the performance of promising concepts. *Energy and Buildings*, Volume 110, January, pp. 79-93.
<http://dx.doi.org/10.1016/j.enbuild.2015.10.036>
86. Hooff, T.A.J. van, Blocken, B.J.E., Timmermans, H.J.P. & Hensen, J.L.M., 2016. Preprint of : Analysis of the predicted effect of passive climate adaptation measures on energy demand for cooling and heating in a residential building. *Energy*, Volume 94, pp. 811-820.
<http://dx.doi.org/10.1016/j.energy.2015.11.036>
85. Lee, B., Pourmousavian, N. and J.L.M. Hensen, 2016. Full - factorial design space exploration approach for multi - criteria decision making of the design of industrial halls, *Energy and Buildings*, vol. 116, pp.352 - 361.
<http://dx.doi.org/10.1016/j.enbuild.2015.09.028>

84. Mishra, A.K., Loomans, M.G.L.C., Hensen, J.L.M., 2016. Thermal comfort of heterogeneous and dynamic indoor conditions – An overview, *Building and Environment*, vol 109, pp. 82-100.
<http://dx.doi.org/10.1016/j.buildenv.2016.09.016>
83. O'Brien, W., Gaetani, I.I. Gilani, S., Carlucci, S., Hoes, P. & Hensen, J.L.M., 2016. International survey on current occupant modelling approaches in building performance simulation, *Journal of Building Performance Simulation*, pp. 1-19.
<http://dx.doi.org/10.1080/19401493.2016.1243731>
82. Xie, Qimiao, Wang, Jinhui, Lu, Shouxiang & Hensen, J.L.M., 2016. An optimization method for the distance between exits of buildings considering uncertainties based on arbitrary polynomial chaos expansion. *Reliability Engineering and System Safety*, 154, 188-196.
<http://dx.doi.org/10.1016/j.ress.2016.04.018>
81. Boerstra, A.C., Kulve, M. te, Toftum, J., Loomans, M.G.L.C., Olesen, B.W. & Hensen, J.L.M., 2015. Comfort and performance impact of personal control over thermal environment in summer : results from a laboratory study. *Building and Environment*, 2015(87), 315-326.
<http://dx.doi.org/10.1016/j.buildenv.2014.12.022>
80. Clarke, J.A., Hensen, J.L.M., 2015. Integrated building performance simulation: Progress, prospects and requirements. *Building and Environment* 91 (2015) 294-306.
<http://dx.doi.org/10.1016/j.buildenv.2015.04.002>
79. Hooff, T.A.J. van, Blocken, B.J.E., Hensen, J.L.M. & Timmermans, H.J.P., 2015. Reprint of : " On the predicted effectiveness of climate adaptation measures for residential buildings." *Building and Environment*, 83, 142-158.
<http://dx.doi.org/10.1016/j.buildenv.2014.10.006>
78. Khandelwal, H., Loonen, R. C. G. M., Hensen, J.L.M., Debije, M. G., Schenning, A. P. H. J., 2015. " Electrically switchable polymer 9ehaviour9 broadband infrared reflectors and their potential as smart windows for energy saving in buildings" *Scientific Reports*, 5:11773, 1-9.
<http://dx.doi.org/10.1038/srep11773>
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<http://dx.doi.org/10.1016/j.enbuild.2015.08.044>
76. Montazeri, H., Blocken, B.J.E. & Hensen, J.L.M., 2015. " CFD analysis of the impact of physical parameters on evaporative cooling by a mist spray system." *Applied Thermal Engineering*, 75(1), 608-622.
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75. Montazeri, H., Blocken, B.J.E. & Hensen, J.L.M., 2015. " Evaporative cooling by water spray systems : CFD simulation, experimental validation and sensitivity analysis." *Building and Environment*, 83, 129-141.
<http://dx.doi.org/10.1016/j.buildenv.2014.03.022>
74. Montazeri, H., Blocken, B.J.E., Derome, D., Carmeliet, J.E. & Hensen, J.L.M. , 2015. CFD analysis of forced convective heat transfer coefficients at windward building facades : influence of building geometry. *Journal of Wind Engineering and Industrial Aerodynamics*, vol. 146, pp. 102-116.
<http://dx.doi.org/10.1016/j.jweia.2015.07.007>
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- study. *Building and Environment*, 78, 44-52.
<http://dx.doi.org/10.1016/j.buildenv.2014.04.007>
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Appendix 2 - Academic supervision

Doctoral dissertation or PhD theses advisor [\[back to 1st page\]](#)

46. Quorbani, Mohammad [2027 Expected], Building Simulation for R&D of Adaptive Facades, Eindhoven University of Technology.
45. Zhang, Ruqian [2027 Expected], Modeling and design optimization of buildings in local energy communities, Eindhoven University of Technology.
44. Tian, Bowen [2025 Expected], New modelling methods for promoting optimal integration of distributed PV systems in urban environments, Eindhoven University of Technology.
43. Karanth, Arundhati [2025 Expected], Modeling and simulation of solar building envelopes, Eindhoven University of Technology.
42. Rouws, Toon [2025 Expected], Modeling and optimization of the BIPV One-day Make-over concept, Eindhoven University of Technology.
41. Mousavi Motlagh, Farzaneh [2025 Expected], Modeling and optimization of buildings in local energy communities, Eindhoven University of Technology.
40. Freitas Martinho, Helena [2025 Expected], Optimization framework for the design and control of adaptive solar shading systems, Eindhoven University of Technology.
39. Wang, Shuwei [2024 Expected], Computational optimization of heat battery system, Eindhoven University of Technology.
38. Meng, Bin, [2023 Expected], Urban-scale building integrated photovoltaics yield predictions.

37. Košútová, Katarína. 2023, Indoor airflow and heat transfer in a cross-ventilated generic building - Wind tunnel experiments and computational fluid dynamics analyses, doctoral dissertation, Eindhoven University of Technology
36. Vries, Samuel B de. 2022, A computational framework for analysis and optimisation of automated solar shading systems - within high performance building facades, doctoral dissertation, Eindhoven University of Technology
35. Mohammadi, Zahra. 2021, Towards houses with low grid dependency — A simulation-based design optimization approach, doctoral dissertation, Eindhoven University of Technology
34. Bognar, Adam. 2021, PV in urban context - Modeling and simulation strategies for analyzing the performance of shaded PV systems, doctoral dissertation, Eindhoven University of Technology
33. Xu, Luyi. 2020, Design optimization of seasonal thermal energy storage integrated district heating and cooling system, a modeling and simulation approach, doctoral dissertation, Eindhoven University of Technology
32. Gaetani, Isabella. 2019, A strategy for fit-for-purpose occupant behavior modelling in building energy and comfort performance simulation, doctoral dissertation, Eindhoven University of Technology
31. Zelensky, Petr. 2019, Optimum representation of heat sources in simulations of air flow in indoor environment, PhD thesis, Czech Technical University in Prague
30. Loonen, Roel. 2018, Inverse modeling of climate adaptive building shells, doctoral dissertation, Eindhoven University of Technology
29. Kotireddy, Rajesh. 2018, Towards robust low-energy houses – A computational approach for performance robustness assessment using scenario analysis, doctoral dissertation, Eindhoven University of Technology
28. Zavřel, Vojtech. 2018, Building energy modelling to support the commissioning of holistic data centre operation, doctoral dissertation, Eindhoven University of Technology

27. Lee, Chul-Sung. 2017. Simulation-based Performance Assessment of Climate Adaptive Greenhouse Shells, doctoral dissertation, Eindhoven University of Technology
26. Boerstra, Atze. 2016, Personal control over indoor climate in offices. Impact on comfort, health and productivity, doctoral dissertation, Eindhoven University of Technology.
25. Montazeri, Hamid. 2015, Computational modelling of evaporative cooling as a climate change adaptation measure at the spatial scale of buildings and streets, doctoral dissertation, Eindhoven University of Technology
24. Hoes, Pieter-Jan. 2014, Lightweight house with hybrid adaptable thermal storage, doctoral dissertation, Eindhoven University of Technology
23. Lee, Bruno. 2014, Sustainable E+ industrial hall - advanced design support and assessment, doctoral dissertation, Eindhoven University of Technology
22. Mangkuto, Rizki. 2014, Modeling of virtual natural lighting solutions for buildings, doctoral dissertation, Eindhoven University of Technology
21. Pernigotto, Giovanni. 2013, Evaluation of building envelope energy performance through extensive simulation and parametrical analysis, PhD thesis, University of Padova, Italy
20. Yahiaou, Azzedine. 2013, A distributed dynamic simulation mechanism for buildings automation and control systems, doctoral dissertation, Eindhoven University of Technology
19. Attia, Shady. 2012, A tool for design decision making - zero energy residential buildings in hot humid climates, PhD thesis, Université catholique de Louvain, Belgium
18. Krainer, Robert. 2012, Nove metody hospodarného dimenzovaného systému s tepelným čerpadlom a svislými zemnými vrty [New methods for optimized system design of heat pumps with borehole heat exchangers], PhD thesis, Czech Technical University in Prague
17. Melhado, Monica. 2012, Towards a performance assessment methodology using computational simulation for air distribution system designs in operating rooms, doctoral dissertation, Eindhoven University of Technology
16. Melo, Ana Paula. 2012, Desenvolvimento de um modelo simplificado para estimar o consumo de energia de edificações comerciais através da aplicação de redes neurais, PhD thesis, Universidade Federal de Santa Catarina, Brazil
15. Struck, Christian. 2012, Uncertainty propagation and sensitivity analysis techniques in building performance simulation to support conceptual building and system design, doctoral dissertation, Eindhoven University of Technology
14. Costola, Daniel. 2011, External coupling of building energy simulation and building element heat, air and moisture simulation, doctoral dissertation, Eindhoven University of Technology
13. Mirsadeghi, Mohammad. 2011, Co-simulation of building energy simulation and computational fluid dynamics for whole-building heat, air and moisture engineering, doctoral dissertation, Eindhoven University of Technology
12. Duska, Michal. 2010, Akumulace tepla ve výpočtu tepelné zátěže klimatizovaných prostorů [Heat accumulation in the calculation of thermal loads for space conditioning], PhD thesis, Czech Technical University in Prague
11. Forejt, Lubos. 2009, Airflow performance modeling in mobile operating rooms, PhD thesis, Czech Technical University in Prague
10. Hopfe, Christina. 2009, Uncertainty and sensitivity analysis in building performance simulation for decision support and design optimization, doctoral dissertation, Eindhoven University of Technology
9. Ulukavak, Gulsu. 2009, Enerji performansi öncelikli mimari tasarım sürecinin ilk aşamalarında kullanılabilecek tasarıma destek değerlendirme modeli [An assessment model addressed to early phases of architectural design process prioritized by energy performance], PhD thesis, Gazi University, Turkey

8. Hojer, Ondrej. 2008, Optimalizace radiacni geometrie svetlych plynovych zaricu [Optimization of radiation geometry of high-temperature gas heater], PhD thesis, Czech Technical University in Prague
7. Lain, Milos. 2008, Nizkoenergeticke chlazení budov [Low-energy cooling of buildings], PhD thesis, Czech Technical University in Prague
6. Trcka, Marija. 2008, Co-simulation for performance prediction of innovative integrated mechanical energy systems in buildings, doctoral dissertation, Eindhoven University of Technology
5. Bartak, Martin. 2007, Numericke modelovani turbulentního proudění ve větrane místnosti [Numerical modeling of turbulent flow in a ventilated room], PhD thesis, Czech Technical University in Prague
4. Zmrhal, Vladimír. 2005, Tepelný komfort a energetická bilance systému s chladicím stropem [Thermal comfort and energy balance of cooled ceiling systems], PhD thesis, Czech Technical University in Prague
3. Djunaedy, Ery. 2005, External coupling between building energy simulation and computational fluid dynamics, doctoral dissertation, Eindhoven University of Technology
2. Centnerová, Lada. 2001, Tradiční & adaptivní model tepelné pohody [Traditional & adaptive thermal comfort], PhD thesis, Czech Technical University in Prague
1. Dunovská, Terezie. 1999, Matematické modelování a počítačová simulace tepelné bilance v technice prostředí [Mathematical modeling and computer simulation of heat balance for environmental engineering], PhD thesis, Czech Technical University in Prague

Master degree thesis supervisor [\[back to 1st page\]](#)

198. Plugge, Lisa [2024 Expected], Neighborhood Integration of Solar Thermal Collector and Heat Pump Systems: A Case Study on Socio-Technical Transition in a neighborhood using a modified conceptual Framework.
197. Ebberts, Gijsbert [2024 Expected], How is a combined Whole Life Carbon and Carbon Pricing approach affected by underlying assumptions and methods? – A sensitivity study.
196. Marino, Martin [2024 Expected], Influence of uncertainties in whole life carbon analysis for retrofitting strategies in buildings.
195. Dongen, Iris van [2023 Expected], Solar shading optimization.
194. Schwarzpaul, Levin [2023 Expected], Analysis of the energy saving potential of high-reflective indoor paints.
193. Castenmiller, Laurens [2023 Expected], The effects of retrofit options for an apartment complex on individual apartments.
192. Swaminathan, Ramachandran [2022 Expected], Modeling and simulation of sustainable DHW systems.

191. Junggeburth, T. 2024, Simulation-based design optimization and robustness analysis of the Crailo local energy community, MSc thesis, Eindhoven University of Technology
190. Jans, J.S. 2024, Unlocking the Potential of Energy Management in Commercial Buildings a Building Performance Simulation and Sustainable Business Model Innovation approach, MSc thesis, Eindhoven University of Technology
189. Quené, T. 2023, Retrofitting dwellings based on embodied- and operational carbon emissions in a changing environment: a parametric approach considering future uncertainties, MSc thesis, Eindhoven University of Technology

188. Broos, T. 2023, Developing a comprehensive model of integrated PVT systems with heat pumps and auxiliary heaters for hot water solutions, MSc thesis, Eindhoven University of Technology.
187. Gijssels, T. van 2023, Overheating and Energy Demand Estimation Tool for Apartments, MSc thesis, Eindhoven University of Technology.
186. Plugge, T.G. 2023, Performance analysis of solar-thermal heat pump systems, MSc thesis, Eindhoven University of Technology.
185. Koning, L. de 2023, Heating Helmond - Influence of renovation strategies and temperature levels on the performance of a district heating network in Helmond, MSc thesis, Eindhoven University of Technology.
184. Wasser, A.C.B. 2023, Utilizing Thermochemical Storage of PV generated heat in Domestic Hot Water Systems; Case Study of an Apartment Building in the Brainport Smart District, MSc thesis, Eindhoven University of Technology.
183. Dorst, J. van 2023, Assessing the performance of a mobile heat battery for the heating demand in residential areas, MSc thesis, Eindhoven University of Technology.
182. Kütt, M.L. 2023, Analysing grid-friendliness and energy costs in new Positive Energy Districts; A comparison of solar energy system and building design concepts for a new residential district in the Netherlands, MSc thesis, Eindhoven University of Technology.
181. Vosoughi, F., 2023, Exploring the effectiveness of occupant-operated natural ventilation and shading to limit summer overheating in student apartments in the Netherlands, MSc thesis, Eindhoven University of Technology.
180. Houtman, G., 2023, Development of a modeling chain for analysing the optical and electrical performance of covered PV modules, MSc thesis, Eindhoven University of Technology.
179. Meijvogel, E.N., 2022, The effect of distributed peak storage on costs and emissions of district heating networks - Case study on the neighborhood of Paauwenburg, MSc thesis, Eindhoven University of Technology.
178. Sluneko, A., 2022, Strategies and tipping points for individual and communal residential PV-battery systems in Luxembourg, MSc thesis, Eindhoven University of Technology.
177. Bouts, S.C.M., 2022, Embodied and operational carbon assessment of a novel solar integrated roof system for retrofitting, MSc thesis, Eindhoven University of Technology.
176. Heijden, R.A.J. van der, 2022, High temperature aquifer thermal energy storage application to local energy systems, MSc thesis, Eindhoven University of Technology.
175. Gubbels, R.M.J. 2022, An approach to identify various types of occupant behavior profiles in Dutch residential buildings, MSc thesis, Eindhoven University of Technology.
174. Wang, Y-S. 2022, Day-ahead forecast of the energy flexibility of an office building: a case study of BAM Offices at Bunnik, MSc thesis, Eindhoven University of Technology.
173. Offermans, J.J. 2022, Reducing CO2 emissions in Tilburg-Zuid combining building physics and socio-economics, MSc thesis, Eindhoven University of Technology.
172. Turk, B. 2022, Quantifying the potential of overheating countermeasures on a humanitarian shelter through measurements and building performance simulations, MSc thesis, Eindhoven University of Technology.
171. Klaassen, L.K.P. 2021, Discrepancies in the Whole Life Carbon method for building environmental impact assessment - analysis and solutions, MSc thesis, Eindhoven University of Technology.
170. Wikandika, R. 2021, The influence of solar spectrum on PV yield: an analysis based on full-scale outdoor monitoring, MSc thesis, Eindhoven University of Technology.

169. Bos, B.R.A. 2021, Flexibility deployment of a heating system with a heat pump in residential towers - a case study on towers Stoker & Brander, MSc thesis, Eindhoven University of Technology.
168. Oranje, J. 2021, A bottom-up approach for modeling the performance of partially Shaded PV systems with power optimizers, MSc thesis, Eindhoven University of Technology.
167. Hoevers, J.H. 2021, Evaluation of the TOJuly indicator in relation to current and future challenges of overheating in the residential building stock, MSc thesis, Eindhoven University of Technology.
166. Corsten, A.J.H. 2021, A comparative performance assessment of infrared heating panels and conventional heating solutions in Dutch residential buildings, MSc thesis, Eindhoven University of Technology.
165. Bruijn, R. de 2021, Evaluating the potential value of energy flexibility deployment in an energy community; A case study in Bunnik(NL), MSc thesis, Eindhoven University of Technology.
164. Tian, B. 2021, A LiDAR DSM based geometry modelling method to improve solar irradiance simulation and PV yield prediction in urban environments, MSc thesis, Eindhoven University of Technology.
163. Abraham-Reynolds, S., 2021, Quantifying the energy flexibility potential of commercial buildings with Thermally Active Building Systems, MSc thesis, Eindhoven University of Technology.
162. Kulhali, M.S., 2021, Evaluating ventilation modes, performance metrics and challenges with coupling a double skin façade with building energy systems – a case study for the Lumiduct system, MSc thesis, Eindhoven University of Technology.
161. Kranen, R.H.M., 2021, Exploring scenarios for mixed-use high-rise buildings as frontrunner in meeting (future) energy performance requirements, MSc thesis, Eindhoven University of Technology.
160. Lindgren, E.A., 2020, Investigation of the effect of the shape of a semi-transparent plastic cover on the irradiance distribution for an integrated solar roof structure, MSc thesis, Eindhoven University of Technology.
159. Biliotti, F., 2020, Performance assessment of heating solutions for Dutch residential houses: Evaluation of IR-panels systems and comparison with heat pumps and low-temperature heating, MSc thesis, Politecnico di Torino.
158. Shi, A., 2020, Simulation-based performance evaluation of buildings with window-frame integrated ventilation and advanced solar shading, MSc thesis, Eindhoven University of Technology.
157. Castenmiller, L.L., 2020, Pursuing grid independence: a neighbourhood design optimization for Brainport Smart District, MSc thesis, Eindhoven University of Technology.
156. Knoben, R.W.J., 2020, Design optimization of the heating solution of a neighbourhood in Brainport Smart District - A simulation study using high-resolution occupant behaviour data, MSc thesis, Eindhoven University of Technology.
155. Sommen, W. v.d., 2020, Context-aware solar shading strategies - performance potential and support vector machine learning approaches, MSc thesis, Eindhoven University of Technology.
154. Karanth, A., 2020, Shade tolerant PV systems under partial shading conditions: Modelling and simulation for informed design decisions, MSc thesis, Eindhoven University of Technology.
153. Pallerlamudi, S.S.H., 2020, A computational assessment of energy flexibility potential of the thermal mass of an office building, MSc thesis, Eindhoven University of Technology.

152. Nikoudel, F., 2020, Performance-driven design of non-planar façade systems for optimal energy harvesting and daylight utilization, MSc thesis, Eindhoven University of Technology.
151. Ballegooijen, M. van, 2020, Development of a digital test environment for R&D support of complex multi-state facades with advanced controls, MSc thesis, Eindhoven University of Technology.
150. Velthuis, H.J.E., 2020, Optimal design and operation of a solar thermal collector field in combination with low-temperature aquifer thermal energy storage to provide heat to a district heating network, MSc thesis, Eindhoven University of Technology.
149. Kesarapu, S., 2020, Assessing the impact of natural gas alternatives and energy renovation options on the households of a neighbourhood, MSc thesis, Eindhoven University of Technology.
148. Tantawi, M., 2020, Assessing energy flexibility using a building's thermal mass as heat storage, MSc thesis, Eindhoven University of Technology.
147. Bodde, K., 2020, Coupled design optimization of façade design and automated shading control for improving visual comfort in office buildings MSc thesis, Eindhoven University of Technology.
146. Voort, T. van de, 2020, Achieving thermal comfort in naturally ventilated offices in São Paulo, Brazil, MSc thesis, Eindhoven University of Technology.
145. Tavenier, M., 2020, Development and evaluation of new models to account for the effects of urban surroundings in PV performance simulations, MSc thesis, Eindhoven University of Technology.
144. Aa, P., 2020, Supporting design decisions in early design phases using energy performance analyses for building design, MSc thesis, Eindhoven University of Technology.
143. Wang, Y-H., 2019, Energy performance prediction for heating and cooling under uncertainties of occupant behaviour: A case study for the Atlas building on TU/e Campus in connection with the ATES system, MSc thesis, Eindhoven University of Technology.
142. Butt, A.A., 2019, Investigating energy saving potential of switching solar absorptance coatings on buildings, MSc thesis, Eindhoven University of Technology.
141. Papageorgiou, A., 2019, Operation optimization of an ATES system for a high-tech industrial building, MSc thesis, Eindhoven University of Technology.
140. Rao, A.S. 2019, Solar resource approaches to improve bankability of PV systems in the built environment within The Netherlands, MSc thesis, Eindhoven University of Technology.
139. Rozendaal, D. 2019, Improving building energy efficiency by optimizing occupancy patterns using office hoteling, MSc thesis, Eindhoven University of Technology.
138. Ahmed, M. S., 2018, Investigating Thermal Energy Control Strategies of TU/e Main Building "Atlas" in Connection with ATES System, MSc thesis, Eindhoven University of Technology.
137. Alavirad, S., 2018, Robust Energy-Retrofit Strategy For Dutch Archetypes: A Demand Reduction Approach., MSc thesis, Eindhoven University of Technology.
136. Bas, C., 2018, Exploring the Wole Building Performance Potential of Adaptive Building Skin for Office Buildings in Istanbul, MSc thesis (partly), Istanbul Technical University.
135. Bekhuis, B., 2018, The role and potential of a hybrid heat pump in an existing Dutch house, MSc thesis, Eindhoven University of Technology.
134. Boesten, S. 2018, Business models for fuel-shift technology in heat and electricity smart grids, MSc thesis, Eindhoven University of Technology.
133. Botman, R., 2018, Net Zero Energy Community in the Netherlands: Comparison of NZEC solutions in respect to energy matching of on-site renewable energy sources applied to the Brainport Smart District, MSc thesis, Eindhoven University of Technology.

132. Cetin-Ozturk, S., 2018, Net-Zero Energy Renovations of High-Rise Apartments in the Netherlands, MSc thesis, Eindhoven University of Technology.
131. Duque Lozano, D., 2018, Experimental and computational performance analysis of full-scale aesthetic BIPV systems, MSc thesis, Eindhoven University of Technology.
130. Freitas Martinho, H., 2018, Parametric approaches for simultaneous design and performance prediction of adaptive facades, MSc thesis (partly), Instituto Superior Técnico, Universidade de Lisboa.
129. Heems, W.J.H., 2018, A simulation-based digital twin for monitoring and predictive performance of a HVAC system in a cleanroom environment., MSc thesis, Eindhoven University of Technology.
128. Koenders, S., 2018, Active Insulation-Computational assessment of the performance of a forced convective dynamic insulation system, MSc thesis, Eindhoven University of Technology.
127. Kusnadi, S., 2018, Development of A Hybrid Empirical-Physical Model for LSC Performance Prediction, MSc thesis, Eindhoven University of Technology.
126. Mennen, L., 2018, Developing a stepwise approach for including occupant behavior in energy performance contracts, MSc thesis, Eindhoven University of Technology.
125. Middendorp, G. v., 2018, Future proofing residential apartment buildings Consequences of a guaranteed net-zero energy performance for a mid-rise residential apartment building, MSc thesis, Eindhoven University of Technology.
124. Nair, S., 2018, Computational Assessment of the Energy Flexibility of the BAM Office Building in Bunnik Using Its Building Thermal Mass As Storage, MSc thesis, Eindhoven University of Technology.
123. Oirschot, T. v., 2018, Experimental and computational study on the visual and thermal performance of the Lumiduct façade system, MSc thesis, Eindhoven University of Technology.
122. Puji Sri Ningsih, 2018, Investigating the importance of uncertainties in PV yield for dwellings with zero-energy guarantees.
121. Rachman, A.P., 2018, Assessing the smart readiness of buildings toward carbon neutral society, MSc thesis, Eindhoven University of Technology.
120. Thoen, H., 2018, Assessment of occupant productivity as a result of indoor climate quality for in-use office buildings, MSc thesis, Eindhoven University of Technology.
119. Venkatakrishnan, V., 2018, Comparative analysis on crowd-sourced data for tuning of a PV system performance prediction tool, MSc thesis, Eindhoven University of Technology.
118. Vervoort, J., 2018, Healthy low energy redesigns for schools in Delhi, MSc thesis, Eindhoven University of Technology.
117. Woensel, R. v., 2018, Automated Solar Shading and Occupant Behavior, MSc thesis, Eindhoven University of Technology.
116. Al Juma, D., 2017, Techno-Economic analysis of seasonal storage for a Dutch NZEB single family dwelling, MSc thesis, Eindhoven University of Technology.
115. Annur, P., 2017, Building a simple method to determine the effectiveness of using waste heat from a BIPV system, MSc thesis, Eindhoven University of Technology.
114. Chen, Y., 2017, Categorization of dwelling heat flexibility regarding outdoor climate., MSc thesis, Eindhoven University of Technology.
113. Costa, S., 2017, Planning for the Future: Developing a Risk-Averse Strategy of Future-Proof Nearly Zero Energy Building Retrofits for Woonbedrijf Considering Multiple KPIs and Market Scenarios., MSc thesis, Eindhoven University of Technology.
112. Dvorak, V., 2017, Simulation-based design of waste heat utilization system for a data center in campus: Reducing TU/e carbon footprint., MSc thesis, Czech Technical University in Prague.

111. Giskes, B. 2017. The influence of occupant behavior on the total energy consumption in offices: A case study for the ABT office, MSc thesis, Eindhoven University of Technology.
110. Gonzalez Elizondo, D., 2017, Switchable glazing and static shading elements – Does combined application lead to higher energy and comfort performance?
109. Heijst, A. v., 2017. Analyzing the performance gap by identifying its causal factors and quantifying their individual impacts for Energy Performance Contracts, MSc thesis, Eindhoven University of Technology.
108. Karssies, W., 2017. Optimization work ow regarding daylighting, energy and glare, for performance assessment of new generation semi-transparent photovoltaic façades, MSc thesis, Eindhoven University of Technology.
107. Kooi, L., 2017. Extending indoor climate quality assessment in office buildings: Evaluation of local thermal environment data and occupant percep on in long-term monitoring, MSc thesis, Eindhoven University of Technology.
106. Muroi, A., 2017. Occupant Behavior in identical residential buildings: Occupancy profiles extraction and application to building performance simulation, MSc thesis, Eindhoven University of Technology.
105. Patron Hernandez, A., 2017. Powering Data Centers with Renewable Energy: Simulation-based design of an on-site System for a TUE Case Study, MSc thesis, Eindhoven University of Technology.
104. Plas, J., 2017. Comparative assessment of ventilative and mechanical cooling for residential zero energy buildings considering future climate, MSc thesis, Eindhoven University of Technology.
103. Ren, Y. 2017, Design optimization of Dutch single-family houses taking into account energy flexibility., MSc thesis, Delft University of Technology.
102. Sav, S. 2017, Performance assessment of shade screen with night time insulation considering higher complexity occupant behavior models, MSc thesis (partly), Istanbul Technical University, Turkey.
101. Snoeren, R., 2017, Enhancing design support of zero energy buildings by using sensitivity analysis and visualisation methods, MSc thesis, Eindhoven University of Technology.
100. Verduijn, D., 2017, The assessment of district retrofit configurations to reduce the CO2 emissions of an industrial park in 's-Hertogenbosch, MSc Thesis. Eindhoven University of Technology.
99. Carvalho, L.F., 2016, District Heating Systems: The effect of building model complexity on heat demand prediction, MSc thesis, University of Lisbon, Portugal
98. Eck, R. v., 2016. Occupants influence on building energy performance simulation, MSc thesis, Eindhoven University of Technology.
97. Enk, E.E.E. v., 2016. Guidelines for selecting the 'fit-for-purpose' model complexity regarding building energy performance prediction, MSc Thesis. Eindhoven University of Technology.
96. Fu, J., 2016, Exploring the Interaction between nZEB and Electric Vehicle, MSc thesis, Eindhoven University of Technology.
95. Hofstede, J.M., 2016, Reducing power peaks from renewable energy sources on the grid connection, MSc thesis, Eindhoven University of Technology.
94. Kanavas, N., 2016, Daylight Performance Simulation of an Innovative Multifunctional Transparent Building-Integrated CPV Solar Panel, MSc thesis, Eindhoven University of Technology.
93. Lazauskas, M. 2016 Heating and Cooling with Air Source Heat Pump and Air Handling Unit system for mobile temporary Tiny House clusters, MSc thesis, Eindhoven University of Technology.
92. Lopes Alves Homem, J.T., 2016, Dynamic Insulation as a strategy for Net-Zero Energy Buildings, MSc thesis, University of Lisbon, Portugal.

91. Nijs, de J.M., 2016, Inverse modeling of buildings with floor heating and cooling systems, MSc thesis, Eindhoven University of Technology.
91. Peeters, B.P.A. 2016, The feasibility of a multivariate performance based design approach, MSc Thesis, Eindhoven University of Technology.
90. Roberz, F., 2016, Energy Aspects and Indoor Climate Performance of Ultra-Lightweight Concrete, MSc thesis, Eindhoven University of Technology.
89. Sande, R.J.P. v.d., 2016, Consulting housing corporations using the Cost Optimality method, MSc thesis, Eindhoven University of Technology.
88. Song, Y., 2016, Influence of the occupant behavior on building energy performance: a case study of Heijmans ONE residence, MSc thesis, Eindhoven University of Technology.
87. Steen, J.M., 2016, The assessment of the in-use performance of an innovative climate system, MSc thesis, Eindhoven University of Technology.
86. Tanuwijaya, F., 2016, Multi Objective Retrofitting Package Assessment for Multi-Residential Social Housing by Woonbedrijf, MSc thesis, Eindhoven University of Technology.
85. Tran, C., 2016, Model-based assessment of cost-effective retrofit solutions for a district heating system extension, MSc thesis, Eindhoven University of Technology.
84. Voert, G.A. ter, 2016, Temperature regulation of a lecture room with limited HVAC capacity using Model Predictive Control for improving thermal comfort and energy performance, MSc thesis, Eindhoven University of Technology.
83. Armenta Gallegos, S. , 2015, Energy Flexibility using Thermally Activated Building Systems, MSc thesis, Eindhoven University of Technology.
82. Batista, F., 2015, Analysis of a district energy system containing centralized thermal storage, MSc thesis, University of Lisbon, Portugal.
81. Bischoff, J., 2015, Hotel Amastelkwartier - Towards nearly-Zero Energy Hotel by applying Renewable Energy Technology, MSc thesis, Eindhoven University of Technology.
80. Bouwens, E., 2015, Ventilative cooling potential in low-energy dwellings (HoTT), MSc thesis, Eindhoven University of Technology.
79. Bron, M., 2015, Energy neutral house - design process with/without use of simulation tools, MSc thesis, Eindhoven University of Technology.
78. Dijkstra, D., 2015, Ventilation efficiency in an L-shaped room, MSc thesis, Eindhoven University of Technology.
77. Jacobs, D., 2015, Analyzing the match between energy production and consumption in Net-Zero Energy Buildings: A multi-physics approach using Modelica, MSc thesis, Eindhoven University of Technology.
76. Kemme, P., 2015, Building Portfolio Analysis and Benchmarking for Estimating Energy Saving Potential, MSc thesis, Eindhoven University of Technology.
75. Leita, A., 2015, Evaluation of the performance of a real building - Vertigo, MSc thesis, University of Lisbon, Portugal.
74. Mohan, V., 2015, Operational energy performance assessment and benchmarking of TU Eindhoven campus 2020 buildings, MSc thesis, Eindhoven University of Technology.
73. Pimentel, T., 2015, District heating systems: case study development using Modelica, MSc thesis, University of Lisbon, Portugal.
72. Schie, F. v., 2015, Guiding the Cloud: Optimizing the Total Energy Consumption and CO2 Emissions by Distributing IT Workload Among Worldwide Dispersed Data Centers, MSc thesis, Eindhoven University of Technology.
71. Spruijt, T., 2015, Supporting the Eindhoven University of Technology to reach thermal energy balance at the campus 2020, Eindhoven University of Technology.
70. Straten, S. v.d., 2015, Operational building performance information for innovative buildings, MSc thesis, Eindhoven University of Technology.
69. Wackers, P., 2015, Assessment of Performance Risks in Large Atria, MSc thesis, Eindhoven University of Technology.

68. Al Koussa, J., 2014, Computational virtual testbed for building integrated renewable energy solutions, MSc thesis, Eindhoven University of Technology.
67. Andresova, E., 2014, Low energy dwelling - robust indoor environment?, MSc thesis, Czech Technical University in Prague.
66. Laarhoven, J. v., 2014, Design decision support for thermally activated building systems with geothermal storage, MSc thesis, Eindhoven University of Technology.
65. Pruissen, R. v. 2014, Sustainable geothermal power, MSc thesis, Eindhoven University of Technology
64. Soons, F., 2014, De-central energy production in the built environment, MSc thesis, Eindhoven University of Technology.
63. Yan, J., 2014, Renewable energy systems for data centres, MSc thesis, Eindhoven University of Technology.
62. Zhang, C., 2014, Solarswing electric, MSc thesis, Eindhoven University of Technology.
61. Kemenade, P. v., 2013, Building comfort performance assessment using a monitoring tool, MSc thesis, Eindhoven University of Technology.
60. Blok, J. 2013, Real performance - in situ performance analysis of a passive house renovation project, MSc thesis, Eindhoven University of Technology.
59. Demir, O. 2013, Energy efficiency of green certified buildings, MSc thesis, Eindhoven University of Technology.
58. Kanellis, M. 2013, Intelligent shading control and operation, MSc thesis, Eindhoven University of Technology.
57. Archontiki, M. 2013, Applicability of innovative facade solutions to existing buildings and potential energy savings, MSc thesis, Eindhoven University of Technology.
56. Li, K. 2013, Integration of HVAC and LED based luminaries, MSc thesis, Eindhoven University of Technology.
55. Qiao, Z. 2013, Computational optimization of annual energy balance in ground coupled building systems, MSc thesis, Eindhoven University of Technology.
54. Rigopolous, P. 2013, Building integrated adaptive thermal storage systems, MSc thesis, Eindhoven University of Technology.
53. Yang, Y. 2013, Computational optimization of TABS systems in ground-coupled HVAC systems, MSc thesis, Eindhoven University of Technology.
52. Dronkelaar, C. v. 2013, Underground buildings, MSc thesis, Eindhoven University of Technology.
51. Kasinalis, C. 2013, Long-term adaptation in climate adaptive building shells. Design and performance assessment, MSc thesis, Eindhoven University of Technology.
50. Chen, C.M. 2012, A multi-agent system for controlling multiple comfort aspects, MSc thesis, Eindhoven University of Technology.
49. Goch, T.A.J. v. 2012, The computational optimization of heat exchange efficiency in stack chimneys, MSc thesis, Eindhoven University of Technology.
48. Haak, A.J.C. 2012, Climate change and heat stress in buildings: evaluation of adaptation measures, MSc thesis, Eindhoven University of Technology.
47. Hissel, T.M.K. 2012, Case-study on the application of building HVAC performance analysis and fault detection using ABCAT, MSc thesis, Eindhoven University of Technology.
46. Li, Z. 2012, Learning from real buildings - building performance evaluation and improvement: a case-study, MSc thesis, Eindhoven University of Technology.
45. Cademartori, E. 2011, Energetic Efficiency in the Brazilian Built Environment. Retrofitting strategies for a hotel in Goi ni, MSc thesis, Politecnico di Torino.
44. Harten, M. v. 2011, Influence of asymmetric radiation field on human thermal comfort, MSc thesis, Eindhoven University of Technology.
43. Hellenberg Hubar, J. v. 2011, Design concept for optimizing the renewable micro generation technologies to supply an off-grid community energy demand: a case

- study with simulation model in The Netherlands, MSc thesis, Eindhoven University of Technology.
42. Knaap, A. v.d. 2011, Building performance simulation to support building energy regulation: a case study for residential buildings in Brazil, MSc thesis, Eindhoven University of Technology.
 41. Krikke, T. 2011, Assessment tools for sustainable district development, MSc thesis, Eindhoven University of Technology.
 40. Mierlo, B. P.v. 2011, Coupled thermal solar collector and heat pump simulation for improved system performance, MSc thesis, Eindhoven University of Technology
 39. Sakellariou, F. 2011, Model predictive control for thermally activated building systems, Eindhoven University of Technology.
 38. Sigalas, G. 2011, Computational optimization of passive use of phase change materials in lightweight low-energy houses, MSc thesis, Eindhoven University of Technology.
 37. Singaravel, S. 2011, Building performance simulation for steering the research and development of liquid crystalline window, MSc thesis, Eindhoven University of Technology.
 36. Timmers, S. 2011, Design guidelines to prevent downdraught, MSc thesis, Eindhoven University of Technology.
 35. Mors, S. ter. 2010, Adaptive thermal comfort in primary school classrooms. Creating and validating PMV based comfort charts, MSc thesis, Eindhoven University of Technology.
 34. Heijden, M.G.M. v.d. 2010, Heat and smoke removal in semi open car parks, MSc thesis, Eindhoven University of Technology.
 33. Poortvliet, R. 2010, Comparison of ventilation strategies for open plan office buildings, MSc thesis, Eindhoven University of Technology.
 32. Tuip, B.G.C.C. 2010, User based fault detection on building level, MSc thesis, Eindhoven University of Technology.
 31. Ree, L.F. v. 2010, Building performance evaluation of newly built greenhouse residences in terms of heating energy and thermal comfort, MSc thesis, Eindhoven University of Technology.
 30. Gontikaki, M. 2010, Optimization of a solar chimney to enhance natural ventilation and heat harvesting in a multi-storey office building, MSc thesis, Eindhoven University of Technology.
 29. Velzen, S.J. v. 2010, Greenhouse residence - feasibility of greenhouse residence concept for renovation, MSc thesis, Eindhoven University of Technology.
 28. Baharvand, E. 2010, How to model a wall solar chimney? Complexity and predictability, MSc thesis, Eindhoven University of Technology.
 27. Pluijm, W.M.P. v.d. 2010, The robustness and effectiveness of mechanical ventilation in airtight dwellings, MSc thesis, Eindhoven University of Technology.
 26. Loonen, R.C.G.M. 2010, Climate adaptive building shells - What can we simulate?, MSc thesis, Eindhoven University of Technology.
 25. Houben, J.V.F. 2010, Computation innovation steering - simulation-assisted performance improvement of innovative buildings and systems, MSc thesis, Eindhoven University of Technology.
 24. Rietkerk, J. 2010, Flexibility and concrete core conditioning - synonyms or contradiction?, MSc thesis, Eindhoven University of Technology.
 23. Crujjs, I. v.d. 2009, Thermisch geactiveerde vloeren in woningen - een onderzoek naar de toepassing en advisering van vloerverwarming / -koeling en betonkernactivering in woningen, MSc thesis, Eindhoven University of Technology.
 22. Deursen, J. v. 2009, Designing buildings with less load on earth's environment (with buildings in the Netherlands, Germany and England as examples), MSc thesis, Eindhoven University of Technology.

21. Evers, J.E.J. 2009, Robustheid voor klimaatvariati es - vergelijking van klimatiseringsconcepten met behulp van gebouwsimulatie, MSc thesis, Eindhoven University of Technology.
20. Marijt, R. 2009, Multi-objective robust optimization algorithms for improving energy consumption and thermal comfort of buildings, MSc thesis, University of Leiden.
19. Trcalek, P. 2009, Simulation of concrete core activation system/ Salave vytapeni a chlazenı s akumulacnı hmotou, MSc thesis, Czech Technical University in Prague.
18. Hegeman, S.T.G.D. 2008, Smoke movement in fire situations - CFD utilization in car park Fleerde, MSc thesis, Eindhoven University of Technology.
17. Brake, J. v.d. 2008, Old technology for new buildings, a study on earth-to-air heat exchangers, MSc thesis, Eindhoven University of Technology.
16. Giesen, B.J.M. v.d. 2008, Beheerste stromingen in grote ruimten - de werking en optimalisatie van een stuwdrukventilator, MSc thesis, Eindhoven University of Technology.
15. Penders, S.H.A. 2008, Beheerste stromingen in grote ruimten - de werking van een stuwdrukventilator toegepast op een praktijkcase, MSc thesis, Eindhoven University of Technology.
14. Vaan, C. d. 2007, Wat is duurzaam wonen? Een onderlinge vergelijking tussen verschillende duurzaamheidsindicatoren, MSc thesis, Eindhoven University of Technology.
13. Heijkant, S. A. M. v. d. 2007, Luchtstromingen in de operatiekamer - modelleren en meten, MSc thesis, Eindhoven University of Technology.
12. Hoes, P. 2007, Gebruikersgedrag in gebouwsimulaties - van eenvoudig tot geavanceerd gebruikersgedragmodel, MSc thesis, Eindhoven University of Technology.
11. Dusee, P.E.R. 2005, Energy saving in office buildings. Which energy behaviours can play an important role in energy saving within office buildings?, MSc thesis, Eindhoven University of Technology.
10. Vreenegoor, R. 2005, Energie- en comfortadvies aan toekomstige bewoners van zelfontworpen woningen; een koppeling tussen iBuild en de IWCS, MSc thesis, Eindhoven University of Technology.
9. Altavilla, F. & Vicari, B. 2004, Strumenti informatici per la progettazione energetica degli edifici, MSc thesis, Politecnico di Torino.
8. Hoof, J. v. 2004, Should thermal comfort evaluation standards be changed in the Netherlands? - Critical analysis of methods proposed to improve European and North-American standards, MSc thesis, Eindhoven University of Technology.
7. Dunovska, T. 1995, Computer simulation application for energy building performance, MSc thesis, Czech Technical University in Prague.
6. Donk, M. v. d. 1993, Een onderzoek naar kamerthermostaatregelingen met behulp van computersimulaties, MSc thesis, Eindhoven University of Technology.
5. Hamelinck, M. J. H. 1993, De toepasbaarheid van verdringsventilatie in kantoren. Algemene ontwerpvoorwaarden en energetische aspecten aan de hand van computersimulaties, MSc thesis, Eindhoven University of Technology.
4. Copal, W. 1992, Het Temperiersysteem in het Nederlandse Museum, MSc thesis, Eindhoven University of Technology.
3. Hooijschuur, J.W.M. 1989, Instationair gedrag van gebouw en installatie - twee dimensionaal warmtetransport door een wand achter een radiator, MSc thesis, Eindhoven University of Technology.
2. Croes, M. E. J. 1988, De invloed van het regelgedrag van een cv-installatie op energieverbruik en luchttemperatuurvari tes + De invloed van de omgevingsparameters op de thermische behaaglijkheid, MSc thesis, Eindhoven University of Technology.
1. Laan, M. J. v. d. 1987, Het opwarmen van woningen en optimaliseringsregeling, MSc thesis, Eindhoven University of Technology.

Appendix 3 – Service to profession

Expert evaluator of research proposals / projects [\[back to 1st page\]](#)

Academy of Finland
Agentschap voor Innovatie door Wetenschap en Technologie (IWT), Belgium
Engineering and Physical Sciences Research Council (EPSRC), UK
Fonds Québécois de la Recherche sur la Nature et les Technologies (FQRNT), Canada
Fonds Wetenschappelijk Onderzoek (FWO), Belgium
Grant Agency of the Czech Republic (GACR)
Horizon 2020 – Energy Efficiency in Buildings (EU)
Italian National Agency for the Evaluation of Universities and Research Institutes (ANVUR)
Kuwait Foundation for the Advancement of Sciences (KFAS)
National Research, Development and Innovation Fund (NRDI / NKFI), Hungary
Natural Sciences and Engineering Research Council of Canada (NSERC)
Österreichische Forschungsförderungsgesellschaft (FFG)
Österreichische Fonds zur Förderung der wissenschaftlichen Forschung (FWF)
Qatar National Research Fund (QNRF)
Research Grants Council (RGC), Hong Kong
Slovenian Research Agency (ARRS)
Stichting Innovatie Alliantie (SIA), Netherlands
Stichting Technische Wetenschappen (STW), Netherlands
University of Liechtenstein Research Fund
US National Science Foundation (NSF)

Peer reviewer of scientific journal papers [\[back to 1st page\]](#)

Advances in Engineering Software
Applied Energy
Applied Thermal Engineering
ASHRAE International Journal of HVAC&R Research
ASHRAE Transactions
Automation in Construction
Building and Environment
Building Research & Information
Building Services Engineering Research & Technology
Civil Engineering and Environmental Systems
Energy
Energy and Buildings
Energy Research and Social Science
Engineering Sustainability
International Journal of Lighting Research and Technology
International Journal of Low-carbon Technologies
Journal of Building Engineering
Journal of Building Physics
Journal of Dynamic Systems, Measurement, and Control
Journal of Solar Energy Engineering
Journal of Power and Energy
Renewable Energy
Simulation Modelling Practice and Theory
Sustainable Cities and Society
Sustainable Energy Technologies and Assessments

External examiner of PhD theses [\[back to 1st page\]](#)

- Lei, M. 2023. Assessment and improvement of indoor thermal comfort and energy demand of Chinese heritage apartment buildings under climate change, Eindhoven University of Technology.
- Catto Lucchino, E. 2023. Modelling, simulation and control of double skin facades, Norwegian Institute of Science and Technology.
- Palusci, O. 2023. Urban ventilation and the compact Mediterranean city: numerical investigations of the dynamic relationships between density, morphology and wind flow, Eindhoven University of Technology.
- Vesely, M. 2023. Personalized heating control systems to improve thermal comfort and reduce energy consumption, Eindhoven University of Technology.
- Khan, W. 2023. Big data analysis and machine learning applied to building energy data in a bottom-up approach, Eindhoven University of Technology.
- Leprince, J.J. 2023. Data science for buildings, a multi-scale approach bridging occupants to smart-city energy planning, Eindhoven University of Technology.
- Antoniou, N. 2022. Numerical and experimental investigation of urban microclimate in a real compact heterogeneous urban area, Eindhoven University of Technology.
- Wang, K. 2022. A modular co-simulation approach for urban energy systems, University of Nottingham.
- Naeiji, K. 2022. Comparing performance of evaporative cooling systems in urban area through the sensitivity analysis - residential buildings located in hot and dry urban areas, Technische Universität Berlin.
- Todeschi, V. 2022. Urban-scale energy modeling to promote smart solutions for sustainable and resilient cities, Politecnico di Torino.
- Finck, C.J. 2021. Activation of demand flexibility for heating systems in buildings; real-life demonstration of optimal control for power-to-heat and thermal energy storage, Eindhoven University of Technology.
- Taal, A. 2021. A new approach to automated energy performance and fault detection and diagnosis of HVAC systems; development of the 4S3F method, Eindhoven University of Technology.
- Juan, Y-H. 2021. Analysis of urban wind energy potential around high-rise buildings in close proximity using computational fluid dynamics, Eindhoven University of Technology
- Zheng, X. 2021. Computational analysis of the impact of façade geometrical details on wind flow and pollutant dispersion, Eindhoven University of Technology
- Veselá, S. 2021. Advancing human thermo-physiological modeling; Challenges of predicting local skin temperatures during moderate activities, Eindhoven University of Technology
- Walker, S.S.W. 2021. Sustainable energy transition scenario analysis for buildings and neighborhoods: Data-driven optimization, Eindhoven University of Technology
- Carnieletto, L. 2021. Optimized methods to support energy efficiency solutions in urban districts and cities, University of Padova
- Boonstra, S. 2020, Multi-disciplinary optimization of building spatial designs, Eindhoven University of Technology
- Rasooli, A. 2020, In-situ determination of buildings' thermo-physical characteristics, Delft University of Technology
- Bourdakis, E. 2019, Low temperature heating and high temperature cooling systems using phase change Materials for new buildings and energy renovation of existing buildings, Technical University of Denmark
- Bozkaya, B. 2019, Optimization of an aquifer thermal energy storage system through integrated modelling of aquifer, HVAC systems and building, Eindhoven University of Technology
- Foteinaki, K. 2019, Models for flexible building operation in the Nordhavn district energy system, Technical University of Denmark

- Giovannini, L. 2019, Design and operation of transparent adaptive façades from a visual comfort and energy use perspective, Politecnico di Torino
- Katić, K. 2019, Towards individual thermal comfort: Model predictive personalized control of heating systems, Eindhoven University of Technology
- Khayrullina - Doudart de la Gree, A.A. 2019, Dynamics of plane impinging jets at moderate Reynolds numbers - with applications to air curtains, Eindhoven University of Technology
- Marzullo, T. 2019, Automatic generation of zonal models from CFD simulations, National University of Ireland Galway
- Scapino, L. 2019, Sorption thermal energy storage for smart grids. A system-scale analysis, Eindhoven University of Technology
- Shanmugavalli, K.R. 2019, Suitability of roof top photovoltaics (RTPV) and design of building integrated semitransparent photovoltaics (BIPV/STPV) for building envelopes in a tropical climate city, Anna University, Chennai
- Zeng, Z. 2019, Building thermoregulation based on the adaptive building envelope, Georgia Institute of Technology, Atlanta
- Aduda, K.O. 2018, Smart grid-building energy interactions demand side power flexibility in office buildings, Eindhoven University of Technology
- Bunthof-van Sandwijk, L.A.A. 2018, Building-integrated concentrated photovoltaics effects of inhomogeneous illumination, Radboud University Nijmegen
- Gianniou, P. 2018, Energy demand models for buildings in a smart cities context, Technical University of Denmark
- Shareef, S.L. 2018, Urban geometry: the effect of height diversity and buildings configuration on energy performance at urban scale. The case study of Dubai /UAE, The British University in Dubai
- Toparlar, Y. 2018, A multiscale analysis of the urban heat island effect. From city averaged temperatures to the energy demand of individual buildings, Eindhoven University of Technology
- Vivian, J. 2018, Direct use of low temperature heat in district heating networks with booster heat pumps, University of Padova
- Wolisz, H.S. 2018, Transient thermal comfort constraints for model predictive heating control, RWTH Aachen University
- Boonyarangkavorn, N. 2017, Development of an optimal control strategy for hybrid ventilation of office buildings, The University of Melbourne
- Habibi Khalaj, A. 2017, Multi-level, multi-objective thermal management and efficiency enhancement for sustainable data center, The University of Melbourne
- Hirvonen, J. 2017, Towards zero energy communities: increasing local and renewable energy utilization in buildings through shared energy generation and storage, Aalto University, Finland
- Jahangiri, P. 2017, Applications of paraffin-water dispersions in energy distribution systems, RWTH Aachen University
- Khandelwal, H. 2017, Infrared Reflecting Smart Windows, Eindhoven University of Technology
- Labeodan, T.M. 2017, A multi-agent and occupancy based micro-grid strategy for process control on the room-level, Eindhoven University of Technology
- Lindauer, M. 2017, Dynamische Sensitivitätsanalysemethoden energetischer Wohngebäudequartierssimulationen, Technische Universität München
- Mofidi, F. 2017, Simulating the Integrated Optimization of Energy Costs and Occupants' Productivity in Offices, Concordia University, Montreal
- Østergård, T. 2017, Proactive building simulations for early design support, Aalborg University, Denmark
- Ritzen, M. 2017, Environmental assessment of Building Integrated Photovoltaics – numerical and experimental carrying capacity based approach, Eindhoven University of Technology

- Wölki, D. 2017, MORPHEUS: Modelica-based implementation of a numerical human model involving individual human aspects, RWTH Aachen University
- Rastogi, P. 2016, On the sensitivity of buildings to climate, Ecole Polytechnique Federale de Lausanne
- Majcen, D. 2016, Predicting energy consumption and savings in the housing stock, Delft University of Technology
- Behrendt, B. 2016, Possibilities and limitations of thermally activated building system, Technical University of Denmark
- Baetens, R. 2015, On externalities of heat pump-based low-energy dwellings at the low-voltage distribution grid, KU Leuven
- Dinapradipta, A. 2015, Office building facades for functionality and adaptability in humid tropical cities: multi-case studies of office buildings in Jakarta – Indonesia, Eindhoven University of Technology
- Peren Montero, J.I. 2015, Geometry and ventilation: evaluation of the leeward sawtooth roof potential in the natural ventilation of buildings, Eindhoven University of Technology
- Veldhuis, H. 2015, Modeling and simulation of photovoltaic systems in Indonesia – a technical evaluation at multiple levels, University of Twente
- Asare-Bediako, B. 2014, SMART energy homes and the smart grid, Eindhoven University of Technology
- Pavlov, G.K. 2014, Building thermal energy storage, Technical University of Denmark
- Dréau, J. Le 2014, Energy flow and thermal comfort in buildings – Comparison of radiant and air-based heating & cooling systems, Aalborg University Denmark
- Kwong, Q.J. 2014, Development of adaptive thermal comfort model for radiantly cooled tropical buildings, Putra University, Malaysia
- Lampropoulos, I. 2014, Energy management of distributed resources in power systems operations, Eindhoven University of Technology
- Ramponi, R. 2014, Computational modeling of urban wind flow and natural ventilation potential of buildings, Eindhoven University of Technology
- Bronsema, B. 2013, Earth, Wind & Fire Natuurlijke Airconditioning, Delft University of Technology
- Entrop, B. 2013, Assessing Energy Techniques and Measures in Residential Buildings: A Multidisciplinary Perspective, University of Twente
- Hajdukiewicz, M. 2013, Formal calibration methodology for CFD models of naturally ventilated indoor environments, National University of Ireland Galway
- Parys, W. 2013, Cost Optimization of Cellular Office Buildings Based on Building Energy Simulation, KU Leuven
- Pernigotto, G. 2013, Evaluation of building envelope energy performance through extensive simulation and parametrical analysis, University of Padova
- Allegrini, J. 2012, Urban Climate and Energy Demand in Buildings, ETH Zurich
- Borg, S. P. 2012, Micro-Trigeneration in Energy-Efficient Residential Buildings in Southern Europe, University of Strathclyde, Glasgow
- Schellen, L. 2012, Beyond Uniform Thermal Comfort on the effects of non-uniformity and individual physiology, Eindhoven University of Technology
- Stavova, P. 2012, Experimental evaluation of ventilation of residential buildings, Czech Technical University in Prague
- Esfandiari, F.N. 2011, Sustainable Air Handling by Evaporation and Adsorption, Delft University of Technology
- Petersen, S. 2011, Simulation-based support for integrated design of new low-energy office buildings, Technical University of Denmark
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