

# Resume - Jan L M Hensen



## Current Positions

Full professor, Building Performance, Eindhoven University of Technology  
Full professor, Environmental Engineering, Czech Technical University in Prague  
Scientific Director Post MSc Smart Buildings & Cities, Eindhoven University of Technology  
Theme Leader Energy in the Built Environment, Eindhoven University of Technology

## Academic Background

Prof., Building Performance, Eindhoven University of Technology, 2002  
Prof., Environmental Engineering, Czech Technical University in Prague, 2002  
Doc., Mechanical Engineering, Czech Technical University in Prague, 1999  
Dr. (equiv. Ph.D.), Building Science, Eindhoven University of Technology, 1991  
Ir. (equiv. M.Sc.), Building Science, Technische Hogeschool Eindhoven, 1981

## Research Expertise and Interest

Building performance prediction and analysis with a focus on computational simulation for design and operation of high performance buildings. Acquired research sponsorships in excess of 8.5 M€.

## Awards

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  
Distinguished Service Award, American Society of Heating, Refrigerating and Air-Conditioning Engineers - ASHRAE, 2009  
Professional Award for Achievements in Science, REHVA, 2009  
Fellow, ASHRAE, 2008  
Air-conditioning and Ventilation Award, Czech Society of Environmental Engineering - STP, 2006  
Fulbright Senior Scholarship, Georgia Institute of Technology in Atlanta, 2003  
B.J. Max Award, TVVL, 2002  
Award for innovation in research and teaching, Czech Technical University in Prague, 2002

## Current Professional Services

Member and past-president of both IBPSA World and IBPSA – Netherlands Flanders  
Founding co-editor of the Journal of Building Performance Simulation  
Member of several ASHRAE technical committees  
Member of several IBPSA board committees  
Editorial board member of Energy and Buildings

## Publications

Scientific journal papers:	117	ORCID:	0000-0002-7528-4234
Books and chapters:	12	ResearcherID:	J-6100-2013
Papers in conference proceedings:	346	Scopus ID:	7006934537
Professional journal articles:	134	h-index:	26 (Web of Science), 31 (Scopus), 44 (Google Scholar)

## Supervisees

<i>Category</i>	<i>Total</i>	<i>Completed</i>	<i>In progress</i>
Doctoral candidates	41	29	12
PDEng trainees	7	1	6
M.Sc. thesis research	131	114	17

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# Curriculum vitae – Jan L M Hensen

## Contact information

Eindhoven University of Technology  
Building Physics and Services  
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Fax: +31(0)40 243 8595  
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URL: <http://www.janhensen.nl>

## Personal details

Born 9 April 1953 in Tilburg (NL), male, married, two children

## Academic background

2002: Prof., Eindhoven University of Technology, Building Physics and Services  
2002: Prof., Czech Technical University in Prague, Mechanical Engineering  
1999: Doc., Czech Technical University in Prague, Mechanical Engineering  
1991: Dr. (equiv. Ph.D.), Technische Universiteit Eindhoven, Building Science  
1981: Ir. (equiv. M.Sc.), Technische Hogeschool Eindhoven, Building Science

## Education

1991: Dr. (equiv. Ph.D.), Technische Universiteit Eindhoven, Building Science  
1981: Ir. (equiv. M.Sc.), Technische Hogeschool Eindhoven, Building Science

## Major research expertise and interest

- Computer modeling and simulation of building physics and systems
- Building performance analysis for design and operation

## Professional experience

2014 – date: scientific director Post MSc Smart Buildings & Cities, Eindhoven University of Technology  
2011 – date: theme leader Energy in the Built Environment, Eindhoven Energy Institute, Technische Universiteit Eindhoven  
2002 – date: full professor, Building Performance, Technische Universiteit Eindhoven  
2002 – date: full professor, Mechanical Engineering, Czech Technical University in Prague  
2005 – 2013: head of unit Building Physics & Services, Built Environment Department, Technische Universiteit Eindhoven  
2001 – 2006: director of research, Centre for Building & Systems TNO-TU Eindhoven  
2000 – 2002: associate professor, Building Science, Technische Universiteit Eindhoven  
2000 – 2002: associate professor, Mechanical Engineering, Czech Technical University in Prague  
1997 – 1999: senior lecturer, Mechanical Engineering, University of Strathclyde, Glasgow  
1993 – 1997: lecturer, Mechanical Engineering, University of Strathclyde, Glasgow  
1991 – 1993: assistant professor, Building Science, Technische Universiteit Eindhoven  
1986 – 1991: research fellow, Building Science, Technische Universiteit Eindhoven  
1981 – 1986: research engineer, TNO Institute of Applied Physics, Delft

## Professional memberships (selection)

2009 – 2018: International Journal of Low Carbon Technologies, editorial board member  
2008 – 2018: Building and Environment; editorial board member  
2007 – date: Journal for Building Performance Simulation; founding co-editor  
2005 – date: Energy and Buildings; editorial board member

- 2001 – date: IBPSA-NVL, International Building Performance Simulation Association – Netherlands + Flanders chapter; 2001 – 2006: founding president; 2006 – 2011: board member; 2012 – date: president
- 2000 – 2009: Netherlands Association for Computerization in Building and Installation Technology (VABI); 2000 – 2006: board member; 2006 – 2009: president
- 2000 – 2011: TVVL Magazine, Netherlands Technical Association for Installations in Buildings; 2000 – 2010: editorial board member; 2008 – 2011: technical council member
- 1998 – date: American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE); member of several technical committees
- 1997 – date: International Building Performance Simulation Association (IBPSA); 1997 – date: board member; 1999 – 2006: vice-president; 2006 – 2010: president; 2010 – date: board member

## **International reviews (selection)**

### **Peer reviewer of:**

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  
 Energy and Buildings, Engineering Sustainability  
 International Journal of Low-carbon Technologies  
 National Agency for the Evaluation of Universities and Research Institutes  
 National Priorities Research Program (NPRP)  
 Simulation Modelling Practice and Theory (SIMPAT)

### **External Examiner of PhD theses:**

- 2017: Boonyarangkavorn, N. , Development of an Optimal Control Strategy for Hybrid Ventilation of Office Buildings, The University of Melbourne
- 2017: Habibi Khalaj, A. , Multi-level, multi-objective thermal management and efficiency enhancement for sustainable data center, The University of Melbourne
- 2017: Hirvonen, J. , Towards zero energy communities: increasing local and renewable energy utilization in buildings through shared energy generation and storage, Aalto University, Finland
- 2017: Jahangiri, P., Applications of paraffin-water dispersions in energy distribution systems, RWTH Aachen University
- 2017: Khandelwal, H. , Infrared Reflecting Smart Windows, Eindhoven University of Technology
- 2017: Lindauer, M. , Dynamische Sensitivitätsanalysemethoden energetischer Wohngebäudequartierssimulationen, Technische Universität München
- 2017: Mofidi, F. , Simulating the Integrated Optimization of Energy Costs and Occupants' Productivity in Offices, Concordia University, Montreal
- 2017: Østergård, T., Proactive building simulations for early design support, Aalborg University, Denmark
- 2017: Ritzen, M., Environmental assessment of Building Integrated Photovoltaics – numerical and experimental carrying capacity based approach, Eindhoven University of Technology

- 2017: Wölki, D. , MORPHEUS: Modelica-based implementation of a numerical human model involving individual human aspects, RWTH Aachen University
- 2016: Rastogi, P. , On the sensitivity of buildings to climate, Ecole Polytechnique Federale de Lausanne
- 2016: Majcen, D. , Predicting energy consumption and savings in the housing stock, Delft University of Technology
- 2016: Behrendt, B. , Possibilities and Limitations of Thermally Activated Building System, Technical University of Denmark
- 2015: Baetens, R., ON EXTERNALITIES OF HEAT PUMP-BASED LOW-ENERGY DWELLINGS at the low-voltage distribution grid, KU Leuven
- 2015: Dinapradipta, A., Office Building Facades for Functionality and Adaptability in Humid Tropical Cities: Multi-Case Studies of Office Buildings in Jakarta – Indonesia, TU Eindhoven
- 2015: Peren Montero, J.I., Geometry and ventilation: Evaluation of the leeward sawtooth roof potential in the natural ventilation of buildings, TU Eindhoven
- 2015: Veldhuis, H., Modeling and Simulation of Photovoltaic Systems in Indonesia – A Technical Evaluation at Multiple Levels, U Twente
- 2014: Asare-Bediako, B., SMART Energy Homes and the Smart Grid, TU Eindhoven
- 2014: Pavlov, G.K., BUILDING THERMAL ENERGY STORAGE, Technical University of Denmark
- 2014: Dréau, J. Le., Energy flow and thermal comfort in buildings – Comparison of radiant and air-based heating & cooling systems, Aalborg University Denmark
- 2014: Kwong, Q.J.. DEVELOPMENT OF ADAPTIVE THERMAL COMFORT MODEL FOR RADIANTLY COOLED TROPICAL BUILDINGS, Putra University, Malaysia
- 2014: Lampropoulos, I., Energy Management of Distributed Resources in Power Systems Operations. TU Eindhoven
- 2014: Ramponi, R., Computational modeling of urban wind flow and natural ventilation potential of buildings , TU Eindhoven
- 2013: Bronsema, B., Earth, Wind & Fire Natuurlijke Airconditioning, TU Delft
- 2013: Entrop, B., Assessing Energy Techniques and Measures in Residential Buildings: A Multidisciplinary Perspective, University of Twente
- 2013: Hajdukiewicz, M., Formal calibration methodology for CFD models of naturally ventilated indoor environments, National University of Ireland
- 2013: Parys, W., Cost Optimization of Cellular Office Buildings Based on Building Energy Simulation, KU Leuven
- 2013: Pernigotto, G., Evaluation of building envelope energy performance through extensive simulation and parametrical analysis, University of Padova
- 2012: Allegrini, J., Urban Climate and Energy Demand in Buildings, ETH Zurich
- 2012: Borg, S. P., Micro-Trigeneration in Energy-Efficient Residential Buildings in Southern Europe, University of Strathclyde
- 2012: Schellen, L., Beyond Uniform Thermal Comfort on the effects of non-uniformity and individual physiology, TU Eindhoven
- 2012: P. Stavova, P., Experimental evaluation of ventilation of residential buildings, CTU Prague
- 2011: Esfandiari, F.N., Sustainable Air Handling by Evaporation and Adsorption, TU Delft
- 2011: Petersen, S., Simulation-based support for integrated design of new low-energy office buildings, TU Denmark
- 2010: Hviid, C.A., Building integrated passive ventilation systems, TU Denmark
- 2010: Hoof, J.v., Ageing-in-place: the integrated design of housing facilities for people with dementia, TU Eindhoven
- 2010: Santin. O.G., Actual energy consumption in dwellings: the effect of energy performance regulations and occupant behaviour, TU Delft
- 2009: Orehounig, K., Thermal, acoustical, and visual performance aspects of traditional bath buildings, TU Vienna

- 2009: Peeters, L., Water-based heating and cooling in residential buildings. Towards optimal heat emission/absorption elements, KU Leuven
- 2009: Simone, A., The behaviour of radiant temperature on people's comfort and control of heating and cooling system, University of Padua
- 2009: Schiavon, S., Energy-saving with personalized ventilation and cooling fan, University of Padua
- 2009: Tabak, V., User Simulation of Space Utilisation. System for Office Building Usage Simulation, TU Eindhoven
- 2008: Yi, Y.K., Integration of Computational Fluid Dynamics (CFD) and Energy Simulation (ES) for optimal energy form generation, University of Pennsylvania
- 2007: Bron – van der Jagt, S., Sound Transmission through Pipe Systems and into Building Structures, TU Eindhoven
- 2007: Schijndel, A.W.M. van, Integrated Heat Air & Moisture Modeling and Simulation, TU Eindhoven
- 2006: Westphal, F.S., Análise de Incertezas e de Sensibilidade Aplicadas à Simulação de Desempenho Energético de Edificações Comerciais, Federal University of Santa Catarina
- 2006: Stec, W.J., Symbiosis of double skin I and indoor climate installation, TU Delft
- 2004: Ivashkov, M., ACCEL: a Tool for Supporting Concept Generation in the Early Design Phase, TU Eindhoven
- 2003: Wilde, P. de, Computational Support for the Selection of Energy Saving Building Components, TU Delft
- 2003: Park, C.S., OCCUPANT RESPONSIVE OPTIMAL CONTROL OF SMART FAÇADE SYSTEMS, Georgia Institute of Technology
- 1999: Roos, A., On the effectiveness of ventilation, TU Eindhoven
- 1999: Wheatley, A.C., Modelling and performance analysis of a sub-dew point chilled beam in mixed mode buildings, Loughborough University
- 1999: Loomans, M.G.L.C., The Measurement and Simulation of Indoor Air Flow, TU Eindhoven
- 1997: MacQueen, J., The modelling and simulation of energy management control systems, University of Strathclyde
- 1995: Chow, T.T., Atomic modelling in air-conditioning simulation, University of Strathclyde

### **Research proposals reviewer for:**

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 Research and University Evaluation Agency (ANVUR)  
 Kuwait Foundation for the Advancement of Sciences (KFAS)  
 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  
 Stichting Innovatie Alliantie (SIA), Netherlands  
 Stichting Technische Wetenschappen (STW), Netherlands  
 University of Liechtenstein Research Fund  
 US National Science Foundation (NSF)

## **Awards & visiting appointments**

- 2018: Honorary Professor in Architectural Science, University of Sydney, 3 months
- 2015: Gold Medal, Dutch Society for Building Services – TVVL
- 2013: Fellow, International Building Performance Simulation Association – IBPSA
- 2012: Fellow Federation of European HVAC Associations – REHVA
- 2011: Lawrence Berkeley National Laboratory, Affiliate Scientist, 6 months, Stichting Promotie Installatietechniek – PIT grant
- 2010: Danish Technical University, Velux Visiting Professor, 3 months, Villum Foundation grant
- 2009: 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
- 2008: Fellow American Society of Heating, Refrigerating and Air-Conditioning Engineers - ASHRAE
- 2007: Kyoto University, visiting professor, 2 months, Building Services Commissioning Association grant
- 2006: Czech Air-conditioning and Ventilation Award, Society of Environmental Technology, Prague
- 2006: Federal University of Santa Catarina (Brazil), visiting professor in Civil Engineering, 3 months, CNPq visiting professor grant
- 2003: Georgia Institute of Technology in Atlanta, visiting senior scholar, 3 months, Fulbright grant
- 2002: B.J. Max Award, Dutch Society for Building Services – TVVL
- 2002: Czech Technical University in Prague rector's team award for innovation in research and teaching (also in 2001)
- 1999: Czech Technical University in Prague, visiting professor in Mechanical Engineering, from 1996 – 1999 approx. 20 days / year
- 1996: Korean Institute for Energy Research, visiting research fellow, 3 months, KISR grant

## **Sponsored research projects (selection)**

- 2015 – 2019: Modeling and simulation of Smart Energy Demand Management in Buildings PIT-Vabi + SPARK, 290 k€
- 2015 – 2017: TRECO-Office: Towards Real Energy performance and Control by predicting, monitoring, comparing and controlling for Offices and Public Buildings, TKI-Energo, 100 k€
- 2015 : Performance of House of Tomorrow Today, Agentschap NL, 10 k€
- 2014 – 2018: Modeling of occupant influence for building energy performance predictions PIT-Vabi + SPARK, 290 k€
- 2014 : Hysopt support, EU Interreg Project Incubatorenennetwerk(t), 10 k€
- 2013 – 2017: Robust Net-Zero Energy Buildings, EuroTech EEBC, 135 k€
- 2013 – 2016: GeNIC Globally optimized Energy efficient data Centres, European Union FP7-ICT-2013.6.2, 411 k€
- 2012 : Evaluation of energy performance of HPL panels with improved IR reflection using simulation, Trespa, 5 k€
- 2011 – 2012: Knowledge transfer project – licht/zwaar bouwen, Bouwen met Staal, 15 k€
- 2010 – 2014: Climate Proof Cities – Impacts of climate change on the indoor environmental and energy performance of buildings, Knowledge for Climate Foundation, 225 k€
- 2010 – 2014: CAGIM: inverse modeling for design and operation of climate adaptive greenhouses, Agentschap NL EOS-LT, 320 k€
- 2010 – 2013: GeoTABS Towards optimal design and control of geothermal heat pumps combined with thermally activated building systems in offices, European Union EraSME, 20 k€

- 2010 – 2013: Modeling virtual natural lighting solutions for buildings, TU Eindhoven CvB, 160 k€
- 2009 – 2013: FACET: façade als adaptief comfortverhogend en energiebesparend toekomstconcept, SenterNovem EOS-LT, 297 k€
- 2009 – 2013: Sustainable Energy Plus industrial Hall – advanced design support and assesmen, M2i + Corus + Bekaert, 260 k€
- 2009 – 2013: Lightweight low-energy house with hybrid adaptable thermal storage, M2i + Corus, 260 k€
- 2009 – 2010: Ensure Enabling Sustainable Lighting Solutions, SenterNovem / Philips kenniswerkersregeling, 210 k€
- 2009 – 2010: Building Brains, SenterNovem / Yacht kenniswerkersregeling, 116 k€
- 2007 – 2011: Contribution towards one PhD project, Stichting Promotie Installatietechniek (PIT), 96 k€
- 2007 – 2011: Earth, wind and fire – new indoor climate concepts, SenterNovem EOS-LT, 168 k€
- 2006 – 2010: Heat, air and moisture performance engineering; a whole building approach, IWT-SBO Vlaanderen, 484 k€
- 2005 – 2009: Contribution towards two PhD research projects, Netherlands Association for Computerization in Building and Installation Technology (VABI) + Deerns Raadgevende Ingenieurs, 160 k€
- 2003 – 2008: Support for professorial chair in building performance simulation, Netherlands Association for Computerization in Building and Installation Technology (VABI), 85 k€
- 2002 – 2007: Contribution towards three PhD research projects, Netherlands Organization for Applied Scientific Research (TNO), 240 k€
- 2001 – 2003: On-line energy services for the Smart Home, European Union, 1100 k€ total project, international consortium of industrial, public and academic partners (Czech academic management)
- 2000 – 2003: Improvement of transport safety by control of fog production in a climate chamber, European Union, 2490 k€ total project, international consortium of industrial and academic partners (Scottish ex-coordinator)
- 1998 – 2001: Integrated design optimization of building energy performance and indoor environment, European Union, 220 k€ total project, international consortium of academic partners (Czech academic management)
- 1997 – 1998: Energy efficiency short course series hosted on the Web, European Union, 64 k€ total project, international consortium of academic partners (Scottish coordinator)
- 1995 – 1998: Introducing IT based environmental simulation courses in Bulgaria and Slovak Republic, European Union, 345 k€ total project, international consortium of academic partners (overall project coordinator)

## Publications

### Scientific journal papers

*Complete listing of all publications (> 250) and reports (> 100) and full text of most publications below are available at [www.bwk.tue.nl/bps/hensen](http://www.bwk.tue.nl/bps/hensen) List of citations is available on request.*

117. 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.
116. 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.



115. 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*, Online first.
114. Gaetani, 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.
113. 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.
112. 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.
111. Kotireddy, R.R., Hoes, P. & Hensen, J.L.M. 2018. Integrating robustness indicators into multi-objective optimization to find robust optimal low-energy building designs. *Journal of Building Performance Simulation*, 13, Online first.
110. Manrique Delgado, B., Kotireddy, R., Cao, S., Hasan, A., Hoes, P., Hensen, J.L.M., and K Sirén 2018. Lifecycle cost and CO2 emissions of residential heat and electricity prosumers in Finland and the Netherlands, *Energy Conversion and Management*, 160: 495–508.
109. 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.
108. Xu, L., Torrens, 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.
107. Gaetani, 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.
106. 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.
105. 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.
104. 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.
103. 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. In : *Landscape and Urban Planning*. 159: 85-100.
102. O'Brien, W., Gaetani, I., Carlucci, S., Hoes, P. & Hensen, J.L.M., 2017. On occupant-centric building performance metrics. *Building and Environment*, 122: 373-385.
101. 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.

100. 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.
99. 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. [doi:10.1016/j.enbuild.2016.07.018]
98. Gaetani, 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.
97. 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.
96. 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, Pages 79-93
95. 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, p. 811-820
94. 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.
93. Loonen Roel C.G.M., Fabio Favoino, Jan L.M. Hensen & Mauro Overend 2016. Review of current status, requirements and opportunities for building performance simulation of adaptive facades, *Journal of Building Performance Simulation*. Published online: 7 Mar 2016.
92. 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
90. O'Brien, W., Gaetani, 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.
89. 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.
88. 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.
87. Clarke, J.A., Hensen, J.L.M. 2015. Integrated building performance simulation: Progress, prospects and requirements. *Building and Environment* 91 (2015) 294-306
86. 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.

85. Khandelwal, H., Loonen, R. C. G. M., Hensen, J. L. M., Debije, M. G., Schenning, A. P. H. J., 2015. "Electrically switchable polymer 10behaviour10 broadband infrared reflectors and their potential as smart windows for energy saving in buildings" *Scientific Reports*, 5:11773, 1-9.
84. Mauro, G.M., Hamdy, M., Vanoli, G.P., Bianco, N., Hensen, J.L.M. (2015). A new methodology for investigating the cost-optimality of energy retrofitting a building category. *Energy and Buildings*, 2015(107), 456-478.
83. 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.
82. 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.
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80. Bakker, L.G., Hoes – Van Oeffelen, E.C.M., Loonen, R.C.G.M. & Hensen, J.L.M. (2014). User satisfaction and interaction with automated dynamic facades : a pilot study. *Building and Environment*, 78, 44-52.
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## **Keynote lectures**

30. 2013 – AIVC International Workshop on Ventilative Cooling Need, Challenges and Solution Examples, Brussels
29. 2012 – IEA-ECBCS Roadshow, Heerlen
28. 2012 – Simurex, Corsica
27. 2012 – Energy Days, Eindhoven
26. 2012 – BinSimDer, Istanbul
25. 2012 – First Annual Meeting of the Center for Cabin Air Reformative Environment, Beijing
24. 2012 – Workshop on Sustainable and High-Performance Industrial Facility Technologies, Tianjin
23. 2011 – TESKON Congress, Izmir
22. 2011 – IBPSA-Turkey, Istanbul
21. 2011 – IBPSA-USA, Montreal
20. 2010 – 3rd International Conference on Technology of Architecture and Structure, Beijing, China
19. 2010 – “60 years of environmental engineering”, Czech Technical University in Prague
18. 2010 – 10th REHVA World Congress - Clima2010, Antalya
17. 2008 – Clima academy, Pamporovo
16. 2007 – EPBD - Japan, Osaka
15. 2007 – KUL Summer Course, Leuven
14. 2007 – SHASE, Sendai
13. 2007 – Symposium Wind and Buildings, Delft
12. 2006 – TU Eindhoven -TVVL Symposium, Eindhoven
11. 2006 – TU Eindhoven - Alumni, Eindhoven
10. 2006 – UFSC, Florianopolis
9. 2005 – TVVL, Delft
8. 2004 – CTD, Eindhoven
7. 2003 – TVVL, Chicago
6. 2002 – BLAVA, Erasmus
5. 2002 – IBPSA NVL, Eindhoven
4. 2001 – IBPSA, Rio
3. 2001 – REHVA, Prague

2. 2000 – REHVA, Prague
1. 1999 – IBPSA, Kyoto

## **Invited lectures**

28. 2013 – Daikin VRV IV Event, Enschede
27. 2013 – Intelligent Building Operations Workshop, Boulder
26. 2013 – World Summit on Building Simulation Research, Philadelphia
25. 2012 – Excellence course, Politecnico
24. 2012 – EU JRC expert meeting, Glasgow
23. 2011 – CPD lecture, The Honk Kong Polytechnic University
22. 2011 – Lawrence Berkeley National Laboratory, Berkeley CA
21. 2011 – University California Berkeley, Berkeley CA
20. 2011 – VABI Software, Nieuwegein
19. 2010 – Duurzame vloeren seminar, Bouwen met Staal, Utrecht
18. 2010 – IBPSA-Danube conference, Belgrade
17. 2009 – AIVC, Barcelona
16. 2009 – Eigen haard, Amsterdam
15. 2009 – Workshop Light Initiative, Eindhoven
14. 2008 – Daikin Konwakai, Prague
13. 2008 – ESF-NSF Workshop on the applications of Adaptive Structures and Materials to Sustainable Energy and the Built Environment
12. 2007 – ASHRAE, Dallas
11. 2007 – Daikin Konwakai, Plzen
10. 2007 – Symposium Wind and Buildings, Delft
9. 2006 – Informal seminar -The indoor environment of operating theatres, Eindhoven
8. 2005 – ISSO-publicatie 74
7. 2005 – NVBV, Delft
6. 2005 – TVVL, Zeist
5. 2005 – Velta, Gent
4. 2003 – UNETO-VNI , Zoetermeer
3. 2001 – REHVA, Prague
2. 2000 – REHVA, Prague
1. 2000 – Installatietechniek aan de TU Eindhoven, nu en in de toekomst, Eindhoven

## **Taught courses (selection)**

- 2004 – date : State-of-the-art in building performance simulation, Technische Universiteit Eindhoven
- 1998 – date : Capita Selecta of building performance simulation, Technische Universiteit Eindhoven (since 2002) and Czech Technical University in Prague
- 1996 - date: Introduction to building performance simulation for integrated solutions, Technische Universiteit Eindhoven (since 2000) and Czech Technical University in Prague

1993 – 1999: Environmental Engineering Science I and II, University of Strathclyde  
1993 – 1999: Energy/ Environmental Simulation, University of Strathclyde  
1993 – 1999: Building Thermal Engineering, University of Strathclyde

## Doctoral dissertation or PhD theses advisor

41. Bognar, Adam [2020 Expected], Development of a multi-criteria performance assessment framework for next-generation truly building-integrated PV, Technische Universiteit Eindhoven.
40. Borgstein, Edward [2019 Expected], Dynamic Benchmark models to characterise energy performance in buildings, Technische Universiteit Eindhoven.
39. Gaetani, Isabella [2018 Expected], Modeling of occupant influence for building energy performance predictions, Technische Universiteit Eindhoven.
38. Košútová, Katarína [2019 Expected], Multi-scale computational assessment of ventilative cooling as an energy-efficient measure to avoid indoor overheating, Technische Universiteit Eindhoven.
37. Li, Zhizhou, [2022 Expected], Development of a multi-objective simulation framework for design and optimization of building envelopes.
36. Meng, Bin, [2022 Expected], Urban-scale building integrated photovoltaics yield predictions.
35. Mohammadi, Zahra [2020 Expected] Performance prediction for energy flexible future-proof building designs, Technische Universiteit Eindhoven.
34. Saini, Hemshikha [2020 Expected]. Development of advanced computational support for responsive building elements, Technische Universiteit Eindhoven.
33. Simek, Jakub [2020 Expected], Energy consumption of air conditioning systems, Czech Technical University in Prague.
32. Vries, Samuel de [2021 Expected], Computational analysis and optimization of innovative shading concepts, Technische Universiteit Eindhoven.
31. Xu. Luyi [2019 Expected], Modeling and Simulation of District Heating with Seasonal Storage, Technische Universiteit Eindhoven.
30. Zelensky, Petr. [2019 Expected], Simplified heat source modeling for computational simulation of indoor air flow, Czech Technical University in Prague.
  
29. Loonen, Roel. 2018, Inverse modeling of climate adaptive building shells, Technische Universiteit Eindhoven
28. Kotireddy, Rajesh. 2018, Towards robust low-energy houses – A computational approach for performance robustness assessment using scenario analysis, Technische Universiteit Eindhoven.
27. Lee, Chul-Sung. 2017. Simulation-based Performance Assessment of Climate Adaptive Greenhouse Shells, Technische Universiteit Eindhoven
26. Boerstra, Atze. 2016, Personal control over indoor climate in offices. Impact on comfort, health and productivity, Technische Universiteit Eindhoven.
25. Montazeri, Hamid. 2015, Computational modelling of evaporative cooling as a climate change adaptation measure at the spatial scale of buildings and streets, Technische Universiteit Eindhoven
24. Hoes, Pieter-Jan. 2014, Lightweight house with hybrid adaptable thermal storage, Technische Universiteit Eindhoven
23. Lee, Bruno. 2014, Sustainable E+ industrial hall - advanced design support and assessment, Technische Universiteit Eindhoven
22. Mangkuto, Rizki. 2014, Modeling of virtual natural lighting solutions for buildings, Technische Universiteit Eindhoven

21. Pernigotto, Giovanni. 2013, Evaluation of building envelope energy performance through extensive simulation and parametrical analysis, PhD thesis, Technische Universiteit Eindhoven
20. Yahiaou, Azzedine. 2013, A distributed dynamic simulation mechanism for buildings automation and control systems, doctoral dissertation, Technische Universiteit Eindhoven
19. Attia, Shady. 2012, A tool for design decision making - zero energy residential buildings in hot humid climates, PhD thesis, Technische Universiteit Eindhoven
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, Technische Universiteit Eindhoven
17. Melhado, Monica. 2012, Towards a performance assessment methodology using computational simulation for air distribution system designs in operating rooms, doctoral dissertation, Technische Universiteit Eindhoven
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, Technische Universiteit Eindhoven
15. Struck, Christian. 2012, Uncertainty propagation and sensitivity analysis techniques in building performance simulation to support conceptual building and system design, doctoral dissertation, Technische Universiteit Eindhoven
14. Costola, Daniel. 2011, External coupling of building energy simulation and building element heat, air and moisture simulation, doctoral dissertation, Technische Universiteit Eindhoven
13. Mirsadeghi, Mohammad. 2011, Co-simulation of building energy simulation and computational fluid dynamics for whole-building heat, air and moisture engineering, doctoral dissertation, Technische Universiteit Eindhoven
12. Duska, Michal. 2010, Akumulace tepla ve vypočtu tepelné zátěže klimatizovaných prostorů [Heat accumulation in the calculation of thermal loads for space conditioning], PhD thesis, Technische Universiteit Eindhoven
11. Forejt, Lubos. 2009, Airflow performance modeling in mobile operating rooms, PhD thesis, Technische Universiteit Eindhoven
10. Hopfe, Christina. 2009, Uncertainty and sensitivity analysis in building performance simulation for decision support and design optimization, doctoral dissertation, Technische Universiteit Eindhoven
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8. Hojer, Ondrej. 2008, Optimalizace radiacní geometrie světelných plynových zářičů [Optimization of radiation geometry of high-temperature gas heater], PhD thesis, Technische Universiteit Eindhoven
7. Lain, Milos. 2008, Nizkoenergetické chlazení budov [Low-energy cooling of buildings], PhD thesis, Technische Universiteit Eindhoven
6. Trcka, Marija. 2008, Co-simulation for performance prediction of innovative integrated mechanical energy systems in buildings, doctoral dissertation, Technische Universiteit Eindhoven
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4. Zmrhal, Viktor. 2005, Tepelný komfort a energetická bilance systému s chladičím stropem [Thermal comfort and energy balance of cooled ceiling systems], PhD thesis, Technische Universiteit Eindhoven



3. Djunaedy, Ery. 2005, External coupling between building energy simulation and computational fluid dynamics, doctoral dissertation, Technische Universiteit Eindhoven
2. Centnerova, Lada. 2001, Tradicni & adaptivni model tepelne pohody [Traditional & adaptive thermal comfort], PhD thesis, Technische Universiteit Eindhoven
1. Dunovska, Terezie. 1999, Matematicke modelovani a pocitacova simulace tepelne bilance v technice prostredi [Mathematical modeling and computer simulation of heat balance for environmental engineering], PhD thesis, Technische Universiteit Eindhoven

## Professional doctorate in engineering trainees

6. Barcelos, Johan [2019 Expected]. Designing a district heating system.
5. Kyrou, Evangelos [2019 Expected].  
Papachristou, Christina [2019 Expected]. Design of a selection guideline for thermal comfort strategies in existing office buildings for optimized smart grid applications.
4. Surugin, Dmitry [2019 Expected]. Development of a Guideline for an Appropriate Selection of BIPV Performance Prediction Methods.
3. Varela-Souto, Antía [2019 Expected]. Development of a design support tool for an innovative BICPV façade system.
2. de Klijn, Marie. 2018. Tool for the diffusion of Building Performance Simulation in Arup's workflow: A design-thinking approach.
1. Puranik, Sanket. 2017, 'Risk-averse' design solutions for HOMIJ using Building Performance Simulations - A case study of MorgenWonen.

## Master degree thesis supervisor

142. Rozendaal, Eric, [2019 Expected], Less Freedom, More Sustainable? The influence of hoteling on the energy performance of office buildings.
141. Bekhuis, Bruno, [2018 Expected], The role and potential of hybrid heat pumps in existing buildings.
140. Boesten, Stef [2018 Expected], Analyzing cases of application of fuel-shift technologies for heating in Copenhagen.
139. Ningsih, Puji Sri, [2018 Expected], Investigating the importance of uncertainties in PV yield for dwellings with zero-energy guarantees.
138. Papageorgiou, Alexandros, [2018 Expected], Designing a sustainable industrial campus-BIC Project.
137. Rao, Adheesh Saritha, [2018 Expected], Adoption of risk-aware solar resource approaches for performance prediction of PV systems in the built environment.
136. Schurink, Niels, [2015 Expected], Selling hot air: the potential of solar heat for agricultural drying applications.
135. Venkatakrishnan, Vignesh, [2018 Expected], Learning lessons from data analysis of monitored rooftop pv systems.
134. Ahmed, M. S., 2018, Investigating Thermal Energy Control Strategies of TU/e Main Building "Atlas" in Connection with ATES System, MSc thesis, Technische Universiteit Eindhoven.

133. Alavirad, S., 2018, Robust Energy-Retrofit Strategy For Dutch Archetypes: A Demand Reduction Approach., MSc thesis, Technische Universiteit Eindhoven.
132. Bas, C., 2018, Exploring the Wole Building Performance Potential of Adaptive Building Skin for Office Buildings in Istanbul, MSc thesis (partly), Istanbul Technical University.
131. Benen, M., 2018, Net Zero House in Oss, MSc thesis, Technische Universiteit Eindhoven.
130. 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, Technische Universiteit Eindhoven.
129. Cetin-Ozturk, S., 2018, Net-Zero Energy Renovations of High-Rise Apartments in the Netherlands, MSc thesis, Technische Universiteit Eindhoven.
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- Multiple KPIs and Market Scenarios., MSc thesis, Technische Universiteit Eindhoven.
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19. Trcalek, P. 2009, Simulation of concrete core activation system/ Salave vytapeni a chlazení s akumulací hmotou, Czech Technical University in Prague
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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, Technische Universiteit Eindhoven
7. Dunovska, T. 1995, Computer simulation application for energy building performance, Czech Technical University in Prague
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2. Croes, M. E. J. 1988, De invloed van het regelgedrag van een cv-installatie op energieverbruik en luchttemperatuurvariaties + De invloed van de omgevingsparameters op de thermische behaaglijkheid, Technische Universiteit Eindhoven
1. Laan, M. J. v. d. 1987, Het opwarmen van woningen en optimaliseringsregeling, Technische Universiteit Eindhoven

