

Employment

Assistant Professor

The Maersk Mc-Kinney Moller Institute
University of Southern Denmark
Odense M
1. Oct 2017 → present

Assistant Professor

SDU Software Engineering
University of Southern Denmark
1. Jan 2020 → present

Research outputs

Room-level occupant counts and environmental quality from heterogeneous sensing modalities in a smart building

Schwee, J. H., Johansen, A., Jørgensen, B. N., Kjærgaard, M. B., Mattera, C. G., Sangogboye, F. C. & Veje, C., 26. Nov 2019, In : Scientific Data. 6, 11 p., 287.

Room-level occupant counts using heterogeneous sensing modalities from a teaching and office building

Schwee, J. H., Johansen, A., Jørgensen, B. N., Kjærgaard, M. B., Mattera, C. G., Sangogboye, F. C. & Veje, C., 26. Nov 2019

Dynamic Energy Model-Based Automatic Building Performance Testing for Continuous Commissioning

Jradi, M., Liu, N., Johansen, A., Arendt, K., Mattera, C. G., Kjærgaard, M. B., Veje, C. & Jørgensen, B. N., 2. Sep 2019, *Proceedings of the 16th IBPSA International Conference and Exhibition Building Simulation 2019*. International Building Performance Simulation Association

Combining Performance Testing and Metadata Models to Support Fault Detection and Diagnostics in Smart Buildings

Markoska, E., Johansen, A., Kjærgaard, M. B., Lazarova-Molnar, S., Jradi, M. & Jørgensen, B. N., 27. Aug 2019, In : Applied System Innovation. 2, 28

Enabling auto-configuring building services: The road to affordable portable applications for smart grid integration

Hviid, J., Johansen, A., Sangogboye, F. C. & Kjærgaard, M. B., 15. Jun 2019, *Proceedings of the 10th ACM International Conference on Future Energy Systems*. New York: Association for Computing Machinery, p. 68-77

Multi-Objective Model Predictive Control Framework for Buildings

Arendt, K., Clausen, A., Mattera, C. G., Jradi, M., Johansen, A., Veje, C., Kjærgaard, M. B. & Jørgensen, B. N., 6. May 2019, (Accepted/In press) *Proceedings of the 16th IBPSA International Conference and Exhibition Building Simulation 2019*.

Evaluation of the Opportunities and Limitations of Using IFC Models as Source of Building Metadata

Lange, H., Johansen, A. & Kjærgaard, M. B., 7. Nov 2018, *Proceedings of the 5th Conference on Systems for Built Environments*. Ramachandran, G. S. & Batra, N. (eds.). Association for Computing Machinery, p. 21-24

FloorViz - a Bricked Dashboard: Demo Abstract

Johansen, A. & Kjærgaard, M. B., 7. Nov 2018, *Proceedings of the 5th Conference on Systems for Built Environments*. Ramachandran, G. S. & Batra, N. (eds.). Association for Computing Machinery, p. 186-187

Room-level Occupant Counts, Airflow and CO2 Data from an Office Building

Arendt, K., Johansen, A., Jørgensen, B. N., Kjærgaard, M. B., Mattera, C. G., Sangogboye, F. C., Schwee, J. H. & Veje, C., 4. Nov 2018, *Proceedings of the First Workshop on Data Acquisition To Analysis*. Association for Computing Machinery, p. 13-14

A Framework for Fully Automated Performance Testing for Smart Buildings

Markoska, E., Johansen, A. & Lazarova-Molnar, S., Oct 2018, *Third International Congress on Information and Communication Technology: ICICT 2018, London*. Yang, X-S., Sherratt, S., Dey, N. & Joshi, A. (eds.). Springer, p. 235-243 (Advances in Intelligent Systems and Computing, Vol. 797).

Metafier - a Tool for Annotating and Structuring Building Metadata

Holmegaard, E., Johansen, A. & Kjærgaard, M. B., 26. Jun 2018, *Proceedings of the 2017 IEEE SmartWorld, Ubiquitous Intelligence & Computing, Advanced & Trusted Computed, Scalable Computing & Communications, Cloud & Big Data Computing, Internet of People and Smart City Innovation*. IEEE, p. 1-8 8 p. (Proceedings for The IEEE Smart World Congress).

Demand Response with Model Predictive Comfort Compliance in an Office Building

Nellemann, P., Kjærgaard, M. B., Holmegaard, E., Arendt, K., Johansen, A., Sangogboye, F. C. & Jørgensen, B. N., 17. Apr 2018, *Proceedings of the 2017 IEEE International Conference on Smart Grid Communications*. IEEE, p. 351-356

Brick : metadata schema for portable smart building applications

Balaji, B., Bhattacharya, A., Fierro, G., Gao, J., Gluck, J., Hong, D., Johansen, A., Koh, J., Ploennigs, J., Agarwal, Y., Berges, M., Culler, D., Gupta, R., Kjærgaard, M. B., Srivastava, M. & Whitehouse, K., 23. Feb 2018, In : *Applied Energy*. 226, p. 1273-1292

Brick: Towards a Unified Metadata Schema For Buildings

Balaji, B., Bhattacharya, A., Fierro, G., Gao, J., Gluck, J., Hong, D., Johansen, A., Koh, J., Ploennigs, J., Agarwal, Y., Berges, M., Culler, D., Gupta, R., Kjærgaard, M. B., Srivastava, M. & Whitehouse, K., 2016, *Proceedings of the 3rd ACM International Conference on Systems for Energy-Efficient Built Environments*. Association for Computing Machinery, p. 41-50

Demand Response in Commercial Buildings with an Assessable Impact on Occupant Comfort

Kjærgaard, M. B., Arendt, K., Clausen, A., Johansen, A., Jradi, M., Jørgensen, B. N., Nellemann, P., Sangogboye, F. C., Veje, C. & Wollsen, M. G., 2016, *Proceedings of the 7th IEEE International Conference on Smart Grid Communications*. IEEE, 6 p.

Demonstrating OccuRE: An Occupancy REasoning Platform for Occupancy-driven Applications: Demo Abstract

Sangogboye, F. C., Johansen, A., Holmegaard, E. & Kjærgaard, M. B., 2016, *Proceedings of the 3rd ACM International Conference on Systems for Energy-Efficient Built Environments*. Association for Computing Machinery, p. 215-216

OccuRE: an Occupancy REasoning Platform for Occupancy-driven Applications

Kjærgaard, M. B., Johansen, A., Sangogboye, F. C. & Holmegaard, E., 2016, *Proceedings of the 19th International ACM SIGSOFT Symposium on Component-Based Software Engineering*. IEEE Press, p. 39-48

Portable Queries Using Brick Schema for Building Applications: Demo Abstract

Balaji, B., Bhattacharya, A., Fierro, G., Gao, J., Hong, D., Johansen, A., Koh, J., Ploennigs, J., Agarwal, Y., Berges, M., Culler, D., Gupta, R., Kjærgaard, M. B., Srivastava, M. & Whitehouse, K., 2016, *Proceedings of the 3rd ACM International Conference on Systems for Energy-Efficient Built Environments*. Association for Computing Machinery, 2 p.

Towards a Metadata Discovery, Maintenance and Validation Process to support Applications that improve the Energy Performance of Buildings

Holmegaard, E., Johansen, A. & Kjærgaard, M. B., 2016, *Proceedings of the 2016 IEEE International Conference on Pervasive Computing and Communication Workshops*. IEEE Press, p. 1-6

Teaching and supervision

Bachelor Project: BossWave Plugin for NETx BMS Server

Aslak Johansen
03/09/2018 → 02/01/2019

Bid behaviour prediction of Autorola auction customers

Aslak Johansen
02/09/2019 → 01/01/2020

Brick Maps - An Intuitive Indoor Location Application

Aslak Johansen
02/09/2019 → 01/06/2020

Distributions- og integrationsteknologier

Aslak Johansen
24/10/2016 → 24/10/2016

IoT Auto-configuration

Aslak Johansen
02/09/2019 → 01/06/2020

Locating vehicles in multi-storied parking complexes.

Aslak Johansen
01/02/2019 → 03/06/2019

Objektorienteret Programmering

Aslak Johansen
01/08/2018 → 17/01/2020

Software Engineering of Internet of Things

Aslak Johansen
06/02/2019 → 25/06/2020

Software Tool for construction of Building Metadata Models

Aslak Johansen
01/02/2018 → 01/06/2018

Ubiquitous Computing and Internet of Things

Aslak Johansen
02/02/2018 → 25/05/2018