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Pædagogisk Grundsyn

For me, university-level teaching is about inspiring students and provide them with the necessary support so that they can (ideally) find their own path to understanding of the subjects at hand. Informing practical knowledge through theory and experimentation, and using the scientific method as an arbiter is key to this.

Ansættelse

Mærsk Mc-Kinney Møller Institutet
SDU
Odense M
29. sep. 2023 → present

Lektor

SDU Software Engineering
SDU
29. sep. 2023 → present

Postdoc

IT-Universitetet i København
København, Danmark
1. jan. 2013 → 1. jan. 2014

Publikationer

Prognostic considering missing data: An input output hidden Markov model based solution

Shahin, K. I., Simon, C., Weber, P., Johansen, A. & Kjærgaard, M. B., okt. 2023, I: Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability. 237, 5, s. 980-993

OPM: An Ontology-Based Package Manager for Building Operating Systems

Hviid, J., Johansen, A., Sangogboye, F. C. & Kjærgaard, M. B., 8. mar. 2022, *11th International Conference on the Internet of Things, IoT 2021 - Conference Proceedings*. Association for Computing Machinery, s. 118-125

Service Portability and Information Discovery in Building Operating Systems using Semantic Modeling

Hviid, J., Johansen, A., Fierro, G. & Kjærgaard, M. B., 8. mar. 2022, *11th International Conference on the Internet of Things, IoT 2021 - Conference Proceedings*. New York: Association for Computing Machinery, s. 110-117

A Research Setup Demonstrating Flexible Industry 4.0 Production

Jepsen, S. C., Worm, T., Johansen, A., Lazarova-Molnar, S., Kjærgaard, M. B., Kang, E. Y., Friederich, J., Heredia Mena, J. E., Soltani, R., Sorensen, S. L. & Hjort Schwee, J., 13. sep. 2021, *2021 International Symposium ELMAR*. Mustra, M., Vukovic, J. & Zovko-Cihlar, B. (red.). IEEE, s. 143-150 (Proceedings Elmar - International Symposium Electronics in Marine, Bind 2021-September).

A digital twin framework for improving energy efficiency and occupant comfort in public and commercial buildings

Clausen, A., Arendt, K., Johansen, A., Sangogboye, F. C., Kjærgaard, M. B., Veje, C. T. & Jørgensen, B. N., sep. 2021, I: Energy Informatics. 4, Suppl. 2, 19 s., 40.

Ontology-Based Modeling of Privacy Vulnerabilities for Data Sharing

Schwee, J. H., Sangogboye, F. C., Johansen, A. & Kjærgaard, M. B., mar. 2020, *Privacy and Identity Management. Data for Better Living: AI and Privacy*. Friedewald, M., Önen, M., Lievens, E., Krenn, S. & Fricker, S. (red.). Springer, Bind 576. s. 109-125 (IFIP Advances in Information and Communication Technology).

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., 2020, *Proceedings of building simulation 2019: 16th IBPSA International conference and exhibition*. Corrado, V., Fabrizio, E., Gasparella, A. & Patuzzi, F. (red.). International Building Performance Simulation Association, s. 822-829 (Building Simulation Conference Proceedings).

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., 2020, *Proceedings of building simulation 2019: 16th IBPSA International conference and exhibition*. Corrado, V., Fabrizio, E., Gasparella, A. & Patuzzi, F. (red.). International Building Performance Simulation Association, s. 2779-2786 (Building Simulation Conference Proceedings).

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., sep. 2019, I: *Applied System Innovation*. 2, 3, 19 s., 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, s. 68-77

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., 2019, I: *Scientific Data*. 6, 11 s., 287.

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. (red.). Association for Computing Machinery, s. 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. (red.). Association for Computing Machinery, s. 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, s. 13-14

A Framework for Fully Automated Performance Testing for Smart Buildings

Markoska, E., Johansen, A. & Lazarova-Molnar, S., okt. 2018, *Third International Congress on Information and Communication Technology: ICICT 2018, London*. Yang, X-S., Sherratt, S., Dey, N. & Joshi, A. (red.). Springer, s. 235-243 (Advances in Intelligent Systems and Computing, Bind 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, s. 1-8 s.

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, s. 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, I: *Applied Energy*. 226, s. 1273-1292

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

Sangogboye, F. C., Johansen, A., Holmegaard, E. & Kjærgaard, M. B., 16. nov. 2016, *Proceedings of the 3rd ACM International Conference on Systems for Energy-Efficient Built Environments*. Association for Computing Machinery, s. 215-216

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., 16. nov. 2016, *Proceedings of the 3rd ACM International Conference on Systems for Energy-Efficient Built Environments*. Association for Computing Machinery, s. 219-220 2 s.

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, s. 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., Nellesmann, P., Sangogboye, F. C., Veje, C. & Wollsen, M. G., 2016, *Proceedings of the 7th IEEE International Conference on Smart Grid Communications*. IEEE, s. 447-452 6 s.

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, s. 39-48

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, s. 1-6

Undervisning og vejledning

A Case Study of the Viability of Elixir as a Backend Language

Johansen, A.
01/09/2021 → 01/06/2022

Agricultural Surveillance and Monitoring

Johansen, A.
01/02/2021 → 30/06/2021

AI Assisted Image Processing Platform

Johansen, A.
01/02/2021 → 30/06/2021

Anomaly Detection in Data Streams

Johansen, A.
03/02/2020 → 30/06/2020

Applying Augmented Reality to Building Instrumentation and Internet-of-Things

Johansen, A.
01/02/2021 → 30/06/2021

Automatic In-Stream Unit Conversion

Johansen, A.
01/02/2021 → 30/06/2021

Bachelor Project: BossWave Plugin for NETx BMS Server

Johansen, A.
03/09/2018 → 02/01/2019

Bid behaviour prediction of Autorola auction customers

Johansen, A.
02/09/2019 → 01/01/2020

Brick Maps - An Intuitive Indoor Location Application

Johansen, A.
02/09/2019 → 01/06/2020

Continuous Integration and Deployment of Markdown Documentation to Confluence

Johansen, A.
01/02/2022 → 01/06/2022

Data Management

Johansen, A.
03/02/2020 → ...

Decentralized Agent-Based Negotiation For Power Grid Stabilization

Johansen, A.
01/09/2022 → 01/06/2023

Decentralized Distributed Energy Balancing in State-Scale Power Grids: A Packetized Energy Management Approach

Johansen, A.
01/02/2023 → 01/06/2023

Demand-Driven Publish-Subscribe

Johansen, A.
01/09/2022 → 01/06/2023

Distributions- og integrationsteknologier

Johansen, A.
24/10/2016 → 24/10/2016

Environmental Monitoring from Location to Cloud

Johansen, A.
01/02/2023 → 01/06/2023

Extending the Autonomous Units Robot Platform to Support Remote Logging

Johansen, A.
01/09/2021 → 03/01/2022

Green Cloud: Emissions as a Design Priority

Johansen, A.
01/02/2023 → 01/06/2023

IoT and Cathodic Protection in the Gas Industry: Adoption and Impact

Johansen, A.
01/02/2023 → 01/06/2023

IoT Auto-configuration

Johansen, A.
02/09/2019 → 01/06/2020

IoT Auto-configuration Using An Information Model

Johansen, A.
03/02/2020 → 01/01/2021

Locating vehicles in multi-storied parking complexes.

Johansen, A.
01/02/2019 → 03/06/2019

LoRa-Based Uplink Infrastructure for Sensor Data

Johansen, A.
01/02/2022 → 01/06/2022

Low-Latency Context Synchronization For Edge Computing and Anomaly Detection

Johansen, A.
01/02/2023 → 01/06/2023

Make Media Credible Again

Johansen, A.
01/09/2022 → 01/06/2023

Objektorienteret Programmering

Johansen, A.
01/08/2018 → 17/01/2020

Privacy-Preserving Monitoring of Occupants

Johansen, A.
01/02/2022 → 01/06/2022

Real-Time Aeroplane Position Streaming Platform

Johansen, A.
01/02/2023 → 01/06/2023

Software Engineering of Internet of Things

Johansen, A.
06/02/2019 → ...

Software Tool for construction of Building Metadata Models

Johansen, A.
01/02/2018 → 01/06/2018

SPARQL Visualisation Tool

Johansen, A.
01/02/2021 → 30/06/2021

System Observability for Danish Software Companies Using Distributed Architectures

Johansen, A.
01/02/2021 → 30/06/2021

Toolchain for Lifecycle Management of MachineLearning for Image Conditioning

Johansen, A.
01/09/2021 → 01/06/2022

Ubiquitous Computing and Internet of Things

Johansen, A.
02/02/2018 → 25/05/2018

Using a Service Mesh to Observe the Inaccessible

Johansen, A.
01/02/2022 → 01/06/2022

Visualization and analysis of network-based devices.

Johansen, A.
03/02/2020 → 30/06/2020