## Bryan P Rasmussen

List of Publications by Year in descending order

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| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Multivariate fault detection for residential HVAC systems using cloud-based thermostat data, part II:<br>Case studies. Science and Technology for the Built Environment, 2022, 28, 121-136.         | 1.7 | 3         |
| 2  | Multivariate fault detection for residential HVAC systems using cloud-based thermostat data, part I:<br>Methodology. Science and Technology for the Built Environment, 2022, 28, 109-120.           | 1.7 | 4         |
| 3  | An Equilibrium Prediction Method for Control and Fault Detection of Energy Systems. ASCE-ASME<br>Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2021, 7, . | 1.1 | 1         |
| 4  | Uncertainty analysis and field implementation of a fault detection method for residential HVAC systems. Science and Technology for the Built Environment, 2020, 26, 320-333.                        | 1.7 | 4         |
| 5  | Steady-State Predictive Optimal Control of Integrated Building Energy Systems Using a Mixed Economic and Occupant Comfort Focused Objective Function. Energies, 2020, 13, 2922.                     | 3.1 | 5         |
| 6  | A review of fault detection and diagnosis methods for residential air conditioning systems. Building and Environment, 2019, 161, 106236.  | 6.9 | 71        |
| 7  | Optimization of the Cool-Down Process for a System of Sintering Furnaces. Smart and Sustainable<br>Manufacturing Systems, 2019, 2, 20170015.  | 0.7 | 0         |
| 8  | Multi-zone Temperature Modeling and Control. Advances in Industrial Control, 2018, , 139-166.   | 0.5 | 2         |
| 9  | HVAC System Modeling and Control: Vapor Compression System Modeling and Control. Advances in<br>Industrial Control, 2018, , 73-103.   | 0.5 | 5         |
| 10 | Opportunities for consumer-driven load shifting in commercial and industrial buildings. Sustainable<br>Energy, Grids and Networks, 2018, 16, 243-258.   | 3.9 | 12        |
| 11 | Soft Implementation of Cascaded Control Architectures Using the Youla Parameterization. , 2018, , .   |     | 1         |
| 12 | Autonomous lighting assessments in buildings: part 1 – robotic navigation and mapping. Advances in<br>Building Energy Research, 2017, 11, 260-281.  | 2.3 | 1         |
| 13 | Optimal tuning of cascaded control architectures for nonlinear HVAC systems. Science and Technology for the Built Environment, 2017, 23, 1190-1202.   | 1.7 | 8         |
| 14 | A comparison of static and dynamic fault detection techniques for transcritical refrigeration.<br>International Journal of Refrigeration, 2017, 80, 212-224.  | 3.4 | 9         |
| 15 | Decoupling of MIMO systems using cascaded control architectures with application for HVAC systems. , 2017, , .  |     | 1         |
| 16 | Non-intrusive gas flow measurement using thermal signatures with online dynamic parameter estimation. , 2017, , .   |     | 0         |
| 17 | Limited-Communication Distributed Model Predictive Control for Coupled and Constrained Subsystems. IEEE Transactions on Control Systems Technology, 2017, 25, 1807-1815.                            | 5.2 | 17        |
| 18 | A comparison of modeling paradigms for dynamic evaporator simulations with variable fluid phases.<br>Applied Thermal Engineering, 2017, 112, 1326-1342.   | 6.0 | 14        |

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|----|--|-----|-----------|
| 19 | Autonomous lighting assessments in buildings: part 2 – light identification and energy analysis.<br>Advances in Building Energy Research, 2017, 11, 227-244.                     | 2.3 | 1         |
| 20 | Exploring controls education: A re-configurable ball and plate platform kit. , 2016, , .   |     | 12        |
| 21 | An evaluation of HVAC energy usage and occupant comfort in religious facilities. Energy and Buildings, 2016, 128, 224-235.   | 6.7 | 22        |
| 22 | Long-term experimental analysis of occupancy and lighting in religious facilities. Building and Environment, 2016, 98, 1-10.   | 6.9 | 3         |
| 23 | A nonlinear reduced-order modeling method for dynamic two-phase flow heat exchanger simulations.<br>Science and Technology for the Built Environment, 2016, 22, 164-177.         | 1.7 | 8         |
| 24 | Chapter 6 Heating, Ventilating, and Air-Conditioning Control Systems. Mechanical and Aerospace Engineering, 2016, , 123-178.   | 0.0 | 0         |
| 25 | Simulation and validation of interior and exterior navigational strategies for autonomous robotic assessments of energy. , 2015, , .   |     | 1         |
| 26 | Effective Tuning of Cascaded Control Loops for Nonlinear HVAC Systems. , 2015, , .   |     | 5         |
| 27 | Neighbor-communication distributed model predictive control for coupled and constrained subsystems in networks. , 2015, , .  |     | 2         |
| 28 | Energy analysis of religious facilities in different climates through a long-term energy study. Energy and Buildings, 2015, 108, 72-81.  | 6.7 | 10        |
| 29 | Emulation of semi-active flow control for evaporator superheat regulation. Applied Thermal Engineering, 2015, 89, 51-61.   | 6.0 | 3         |
| 30 | Optimal Setpoints for HVAC Systems via Iterative Cooperative Neighbor Communication. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, . | 1.6 | 5         |
| 31 | Compensation of HVAC System Nonlinearities Using Cascaded Control Architecture. , 2014, , .  |     | 0         |
| 32 | Automated Modeling of Building HVAC Systems for MPC. , 2014, , .   |     | 2         |
| 33 | Distributed Model Predictive Control for networks with limited control communication. , 2014, , .  |     | 4         |
| 34 | Autonomous Lighting Audits: Part 1 $\hat{a} \in$ " Building Navigation and Mapping. , 2014, , .  |     | 2         |
| 35 | Autonomous Lighting Audits: Part 2 $\hat{a} \in$ "Light Identification and Analysis. , 2014, , .   |     | 2         |
| 36 | Decentralized model predictive control of a multi-evaporator air conditioning system. Control Engineering Practice, 2013, 21, 1665-1677.   | 5.5 | 55        |

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|----|---|-----|-----------|
| 37 | Pareto Optimal Setpoints for HVAC Networks via Iterative Nearest Neighbor Communication. , 2013, , .  |     | 2         |
| 38 | Multi-Parametric Tuning of Dynamic Air Conditioning Models Using Experimental Data. , 2012, , .   |     | 0         |
| 39 | A Wavelet Decomposition Method for Tuning Thermal Models to Aperiodic Transient Test Data. , 2012, ,  |     | 0         |
| 40 | Cascaded superheat control with a multiple evaporator refrigeration system. , 2011, , .   |     | 7         |
| 41 | On reducing evaporator superheat nonlinearity with control architecture. International Journal of Refrigeration, 2010, 33, 607-614.                                   | 3.4 | 46        |
| 42 | Parameter estimation for dynamic HVAC models with limited sensor information. , 2010, , .   |     | 8         |
| 43 | Gain Scheduled Control of an Air Conditioning System Using the Youla Parameterization. IEEE<br>Transactions on Control Systems Technology, 2010, 18, 1216-1225.       | 5.2 | 42        |
| 44 | A control architecture solution to superheat nonlinearity. , 2010, , .  |     | 6         |
| 45 | Stable Controller Interpolation and Controller Switching for LPV Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2010, 132, . | 1.6 | 13        |
| 46 | Evaporator Superheat Regulation via Emulation of Semi-Active Flow Control. , 2009, , .  |     | 2         |
| 47 | Superheat Control: A Hybrid Approach. HVAC and R Research, 2009, 15, 1021-1043.   | 0.6 | 13        |
| 48 | Selecting PID Control Gains for Nonlinear HVAC&R Systems. HVAC and R Research, 2009, 15, 991-1019.  | 0.6 | 15        |
| 49 | Model-based predictive control of a multi-evaporator vapor compression cooling cycle. , 2008, , .   |     | 28        |
| 50 | Moving-Boundary Heat Exchanger Models With Variable Outlet Phase. Journal of Dynamic Systems,<br>Measurement and Control, Transactions of the ASME, 2008, 130, .      | 1.6 | 38        |
| 51 | Parameter tuning of reduced order evaporator models via numerical model reduction. , 2008, , .  |     | 1         |
| 52 | Stable controller interpolation for LPV systems. , 2008, , .  |     | 16        |
| 53 | Advances in Energy Systems Modeling and Control. Proceedings of the American Control Conference, 2007, , .  | 0.0 | 11        |
| 54 | Improving Energy Efficiency in Automotive Vapor Compression Cycles through Advanced Control   |     | 4         |

Design. , 2006, , .

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| 55 | Gain scheduled control of an air conditioning system using the Youla parameterization. , 2006, , .  |     | 11        |
| 56 | Parametric Sensitivity Analysis and Model Tuning Applied to Vapor Compression Systems. , 2005, , 1203.  |     | 1         |
| 57 | Vapor Compression Cycles: Control-Oriented Modeling and Validation. , 2005, , 1213.   |     | 4         |
| 58 | Model-driven system identification of transcritical vapor compression systems. IEEE Transactions on Control Systems Technology, 2005, 13, 444-451.                                      | 5.2 | 55        |
| 59 | Control-Oriented Modeling of Transcritical Vapor Compression Systems. Journal of Dynamic Systems,<br>Measurement and Control, Transactions of the ASME, 2004, 126, 54-64.               | 1.6 | 101       |
| 60 | Application of a multivariable adaptive control strategy to automotive air conditioning systems.<br>International Journal of Adaptive Control and Signal Processing, 2004, 18, 199-221. | 4.1 | 50        |
| 61 | Iterative Modeling and Identification of a CO2 Air Conditioning System. , 2004, , 813.  |     | 0         |
| 62 | Application of Multivariable Adaptive Control to Automotive Air Conditioning Systems. , 2003, , .   |     | 7         |
| 63 | A Control-Oriented Model of Transcritical Air-Conditioning System Dynamics. , 2002, , .   |     | 7         |
| 64 | Evaluation of Control Strategies for Compressor Rapid Cycling. , 0, , .   |     | 1         |
| 65 | Automotive Vapor Compression Cycles: Validation of Control- Oriented Models. , 0, , .   |     | 2         |