Special Issue Reprint

Practical Applications of Model Predictive Control and Other Advanced Control Methods in the Built Environment

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Many advanced control methods have been proposed in the past to improve the operation of buildings. This reprint collected publications dealing with advanced control solutions implemented in existing buildings to improve their performance. Moreover, it gathers promising methodologies to facilitate the adoption of advanced control solutions in the building control industry. It includes virtual sensing for indoor air pollutants, novel models to predict indoor air temperature as well as building heating and cooling loads; and model-based controls, predictive controls, and predictive maintenance algorithms to optimize setpoint tracking and the operation of building heating and cooling systems.

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