Kieback&Peter

PRESS RELEASE

Model Predictive Control 2.0

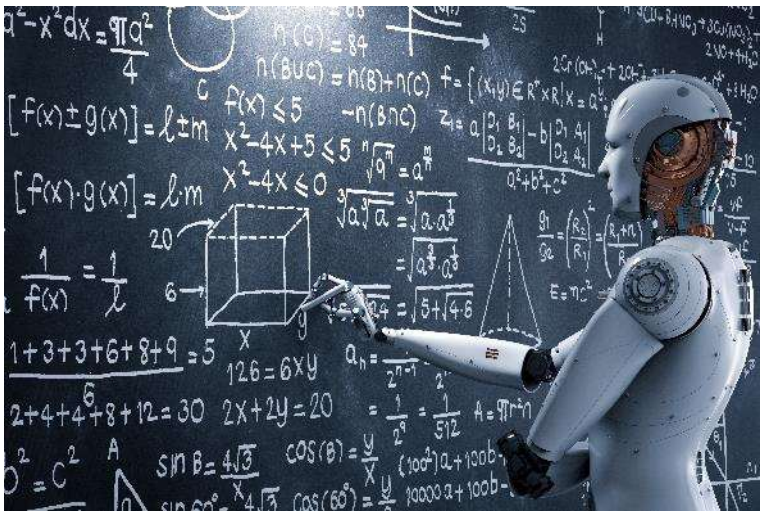
A foresighted predictive control system

Model Predictive Control (MPC) is a predictive control system based on mathematical models. MPC works with predictive algorithms and appropriate control commands. The MPC programs are based on complex calculation models which also take account of the inertia of buildings and technical systems. As well as real-time values, they work with other factors, e.g. historical system data.

MPC 2.0 from Kieback&Peter goes two steps further in digital evolution: the smart control also uses external data such as visitor and climate forecasts. And it works with artificial intelligence (AI) – the algorithms of MPC 2.0 are continually developing through machine learning. The intelligent controller becomes ever more familiar with user, building and HVAC system behavior. For example, MPC 2.0 learns how slowly individual rooms cool down. With this knowledge, MPC 2.0 lowers the temperature well before the end of the day. The good thing is that users don’t notice it because there is enough residual heat to maintain comfort levels.

MPC 2.0 understands the physical and technical interrelationship of all the systems as a whole. The smart control system is thus able not only to optimize efficiency and comfort continuously. It can also manage the peak loads of entire properties in such a way that operators can exploit price advantages on the energy and resource markets.

MPC 2.0 builds on existing systems and can be integrated cost-effectively with little effort.



MPC 2.0 from Kieback&Peter uses machine learning – a type of artificial intelligence |
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About Kieback&Peter

Kieback&Peter GmbH & Co. KG was founded in 1927 in Berlin. With over 1,400 employees and 50 locations worldwide, the family-owned company is one of the leading providers of building automation. Experts integrate building systems such as heating, ventilation, air conditioning and fire protection in one optimized system with the aid of software and hardware. The medium-sized company ensures more comfort, efficiency and security in the building by using simple, smart solutions.

Experienced professionals look after the properties of commercial and public customers throughout their entire lifecycle – on-site, remotely and with centralized services. The engineers and technicians work with great passion on tailor-made automation solutions for their customers. They take just as much care of prestigious buildings like the Berlin Reichstag as they do the school next door. Kieback&Peter's top international customers include Airbus, Daimler and Volkswagen.

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