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(57) Abstract :
The invention discloses an IoT-based platform for smart building temperature management integrating a distributed sensor network (101), cloud data processing unit (102), HVAC integration module (103), and user interface module (104). The system provides predictive, adaptive, and intelligent temperature regulation. It reduces energy consumption, enhances occupant comfort, supports interoperability with existing HVAC infrastructure, and integrates external data sources for sustainable operation. Designed to be modular and scalable, the platform enables real-time monitoring and predictive control, making it suitable for diverse building types and future smart city integration.

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