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(57) Abstract :

A device (101) for optimized meeting room utilization in corporate offices comprises a sensor module (102), AI module (103), interactive display (104), and mobile interface (105) for detecting real-time occupancy and automating bookings. The device uses environmental and thermal sensing to confirm presence, releases unused rooms, predicts demand using machine learning, and enhances productivity through dynamic room assignment. Optimization algorithm (106) ensures efficient use of space. The system improves availability, reduces ghost bookings, and streamlines scheduling workflows.

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