

Enhance facility operations decision making - how about artificial intelligence?

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Introduction

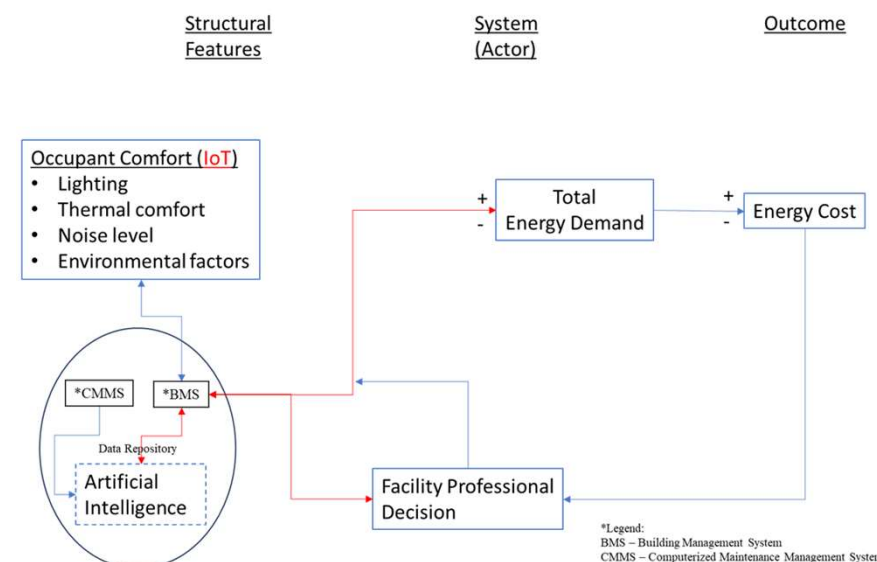
Globally organizations lose billions of dollars through improper facility operations and the limited decisions made by facility professionals. Not only monetary resources are lost but institutional knowledge, production, people, and potential investments are lost.

Materials and methods

The chosen methodology for this research is the multi-step, organized method of a systematic review.

Results

- In the United States, research focuses on thermal comfort and occupancy through direct digital control
- AI provides data analysis and predictions to improve decision-making



- Energy management and occupant monitoring is improved by artificial intelligence
- Occupant and indoor comfort is stabilized and improved with the use of artificial intelligence

Conclusions

Results reveal AI enhance facility professional's decision-making by providing predictions to enable proactive responses to concerns before a noticeable problem occurs

- Improve productions
- Improve occupant comfort
- Improves retentions
- Enable advance knowledge on energy consumption

Literature cited

Alavi, H., Forcada, N., Bortolini, R., & Edwards, D. J. (2021). Enhancing occupants' comfort through BIM-based probabilistic approach. *Automation in Construction*, 123(2021), Article 103528. <https://doi.org/10.1016/j.autcon.2020.103528>

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Further information

Please email questions or comments to ads2929@gmail.com.