

CONCLUSION

A multi-objective optimization process in the early stages of design can improve the workflow efficiency by:

- A) Reducing decision-making time and
- B) Increasing collaboration between disciplines.

As demonstrated by the experiments, the process enables a potentially exhaustive exploration of design solutions in a fraction of the time and with greater accuracy. MOO methodology can also be utilized to find solutions for broader and seemingly unrelated problems, such as the tradeoffs between human comfort, energy consumption, capital cost, EUI, lifecycle costs etc.

Finally, the ongoing development of integrated optimization software, de-centralized computing technologies and post-optimization sorting tools, coupled with the benefits of a MOO approach in professional practice, make this an important area for future work and knowledge advancement.

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