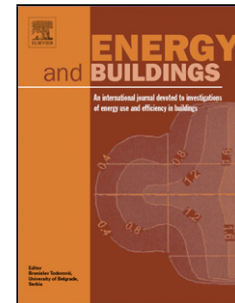


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Title: Cost-Effective and Comfort-Aware Residential Energy Management under Different Pricing Schemes and Weather Conditions

Author: Amjad Anvari-Moghaddam Hassan Monsef Ashkan Rahimi-Kian



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Title:

Cost-Effective and Comfort-Aware Residential Energy Management under Different Pricing Schemes and Weather Conditions

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Highlights

- Joint scheduling of energy supply options and controllable loads is presented
- User's satisfaction degrees and comfort levels are considered
- A detailed thermo-electrical load model for a residential smart house is proposed
- Assessment of demand response actions is presented under different scenarios

Abstract: Nowadays with the emerging of smart micro-grids(SM-Gs) in residential sectors, a large portion of energy consumption can be saved through optimal scheduling of household devices and management of domestic hybrid energy sources. By the aid of such technologies, residential consumers have the capability to mitigate their energy costs and

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