If You Measure It, Can You Improve It? Exploring The Value of Energy Disaggregation

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Dozens of new NILM techniques proposed for more

accurate disaggregation Nonintrusive appliance load monitoring About 7,420 results (0.06 sec) Nonintrusive appliance load monitoring GW Hart - Proceedings of the IEEE, 1992 - ieeexplore.ieee.org A nonintrusive appliance load monitor determines the energy consumption of individual appliances turning on and off in an electric load, based on detailed analysis of the current and voltage of the total load, as measured at the interface to the power source. The . Cited by 857 Related articles All 3 versions Cite Saved Since 2015 [CITATION] Nonintrusive appliance load monitoring: Review and outlook Since 2014 M Zeifman, K Roth - IEEE Transactions on Consumer Electronics, 2011 Since 2011 Cited by 268 Related articles All 7 versions Cite Saved Custom range. [PDF] NONINTRUSIVE APPLIANCE LOAD MONITORING JJ van Rensburg, PJE Vermeulen, IE Lane - timetable.cput.ac.za Sort by relevance Abstract-A nonintrusive domestic appliance identifier is proposed in this paper. The lat-est

power definitions combined with a fourier analysis are investigated for extracting fea-tures that will serve as a characteristic signature of an appliance. The combinations of different ..

Abstract: This paper presents a new **nonintrusive appliance load monitoring** technique based on the integer programming. **Nonintrusive appliance load monitoring** is a problem to identify the operating conditions of the electric **appliances** in a house only by observing ...

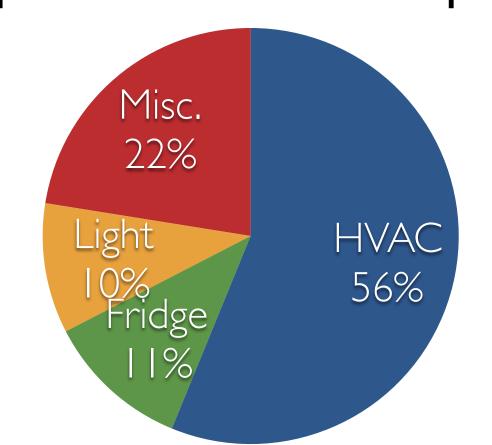
K Suzuki, S Inagaki, T Suzuki... - SICE Annual ..., 2008 - ieeexplore.ieee.org

Nonintrusive appliance load monitoring based on integer programming

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Accuracy **traditionally** measured on metrics such as error in energy (difference between predicted and actual pie)

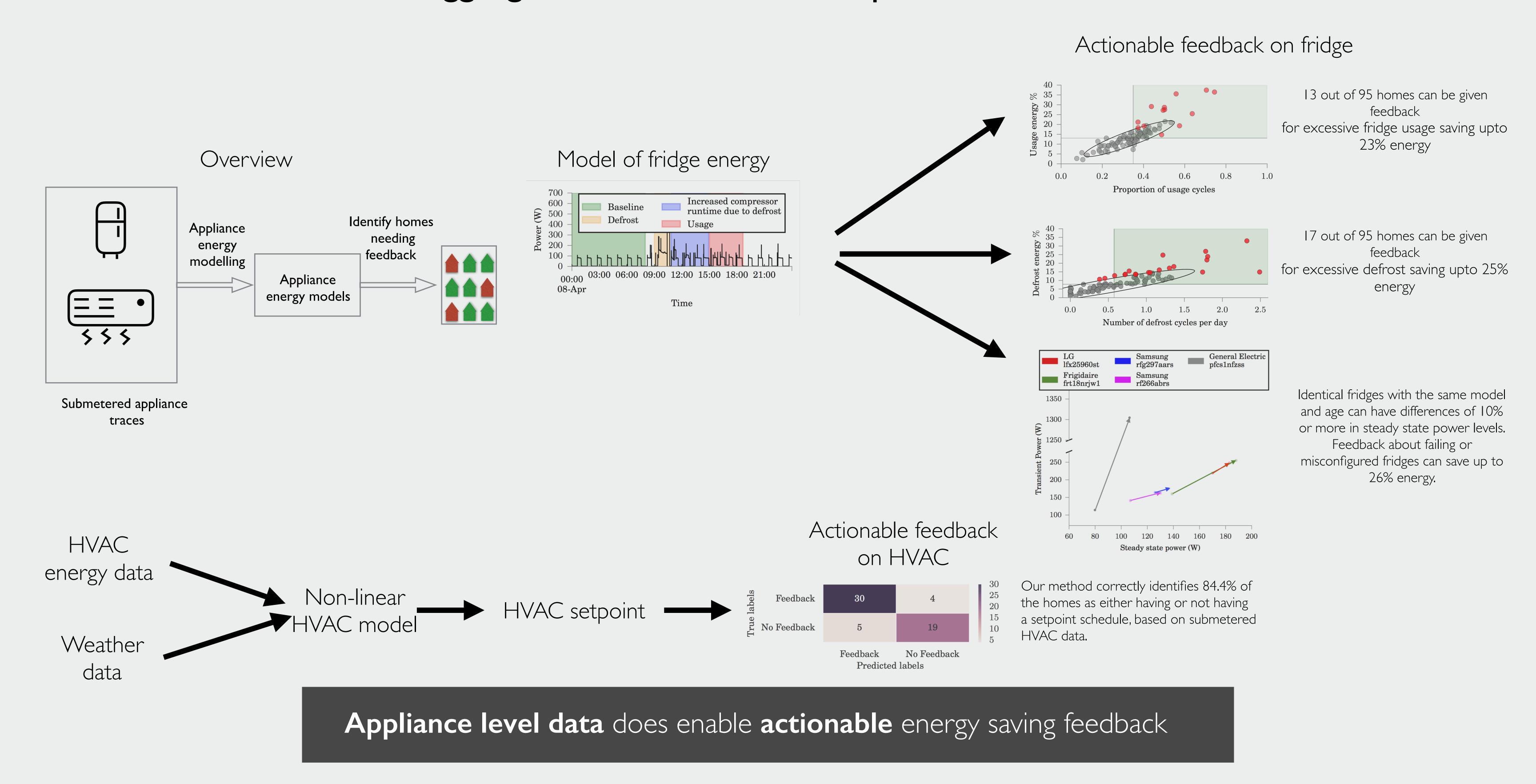


Do these techniques actually save energy?

Does higher accuracy imply higher savings?



Can disaggregated traces be used to provide actionable feedback?



Do NILM approaches give traces with sufficient fidelity to support such feedback?

