Design Optimization of Battery Thermal Management Systems: A Surrogate-Model-Based Approach

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Highlights

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Abstract

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Contents

1   Introduction

Considerations:

- Constrain maximum temperature and maximum temperature difference (further minimization does not provide any benefits)

- Implementation of adaptive sampling to limit over-sampling

- Automated model selection (COSMOS or similar framework)

- Once samples selected, batch run COMSOL in parallel from the command line

References