

融合流体情報学研究分野 多目的最適設計探索ソフトMEDOCの開発

■ Multi-purpose Engineering Design Optimization Code (MEDOC)

MEDOC Ver. 0.8

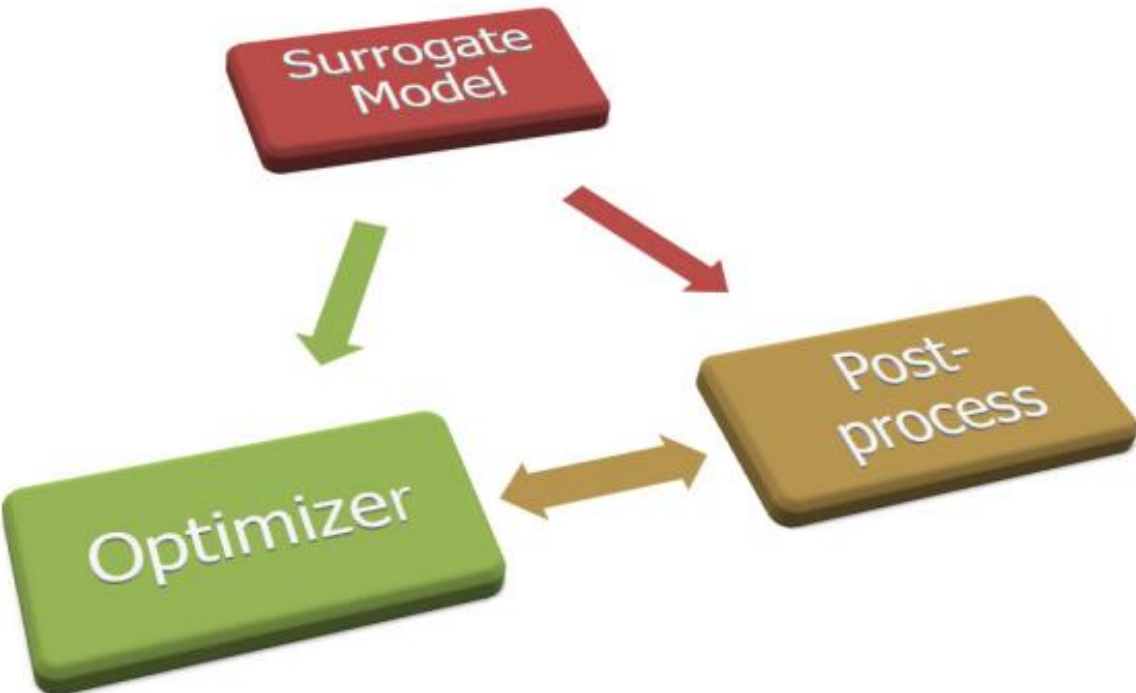
Surrogate Model

Kriging Model

Optimizer

Post Process

MEDOC is the abbreviated word of Multi-purpose Engineering Design Optimization Code. MEDOC provide helpful tools to conduct the multi objective design with a surrogate model and the analysis of results. This program is consist of three parts, surrogate model, optimizer, post-processing.



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graph TD; SM[Surrogate Model] --> O[Optimizer]; O --> P[Post-process]; P --> O;
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The diagram illustrates the workflow of the MEDOC software. It consists of three main components: a Surrogate Model (red box), an Optimizer (green box), and a Post-process module (brown box). The Surrogate Model provides input to the Optimizer, which then interacts bidirectionally with the Post-process module. The Post-process module also receives input from the Surrogate Model.