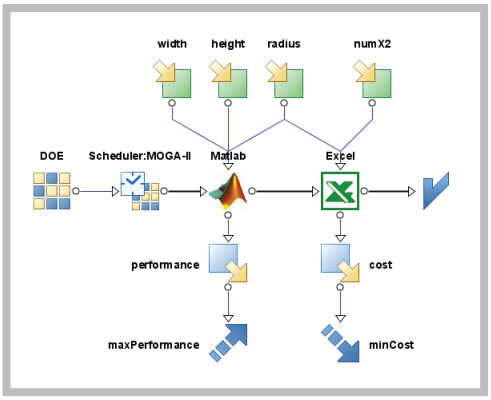
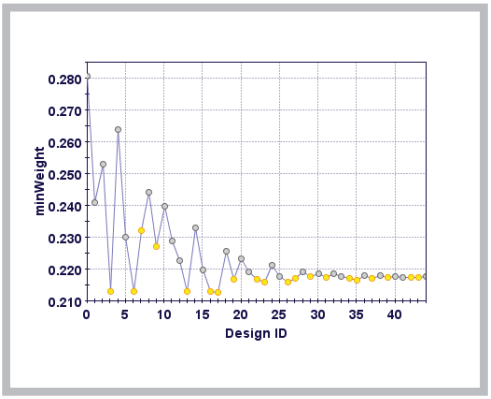
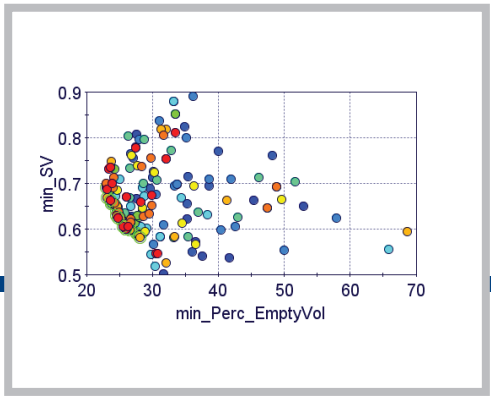
Introduction to modeFRONTIER



Matlab and Excel are linked together in an multi-objective optimization with two conflicting objectives.



Follow the progress of the optimization in the history chart. Yellow designs violate constraints.



Study the character of conflicting objectives with the bubble chart. The Pareto frontier is highlighted.

modeFRONTIER is a platform for integration and automation of CAE processes, optimization and robust design. The training introduce fundamental concepts and make participants familiar with the modeFRONTIER environment. Case studies are used to understand good solution approaches while the biggest challenge for all participants is the change of mind, from a few manual single design iterations to a systematic design space exploration. The training provide inspiration, awareness and knowledge to begin the journey.

Participants will learn to design and implement different optimization strategies in order to complete a project within a specified time and simulation budget. Other topics such as design of experiments, metamodeling and robust design are introduced as well. The three day training consists of a mix of theoretical sessions and workshops.

Duration: 3 days

Prerequisites: None

Drive your designs from good to GREAT

modeFRONTIER

- Terminology & methods
- Process integration & automation

Theory & Case based learning

- Variable screening
- Design of experiments
- Optimization strategies
- Metamodel introduction
- Robustness introduction

Results interpretation

- General tools
- Statistical tools

FOR MORE INFORMATION:

EnginSoft Nordic AB, Ideon Science Park, SE-223 70 Lund, Sweden
Phone +46 46 286 89 00, info@enginsoft.se

www.enginsoft.se