



Optimization in product development

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(Per Enqvist, Göran Svensson)

Workforce management at Contact Centers: Ind. Ph.D. project
Multitasking optimization, Multi-skill staffing



Systecon Spare parts optimization and LCC analysis



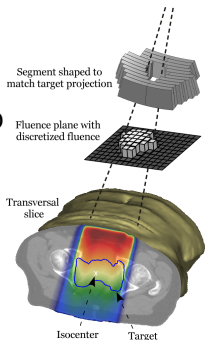
Swedish study group: Mathematics in Industry

J. Karlsson organized with KTH, Mittag-Leffler, Ericsson Research, Greenly, Lynx, Protracer, Scania, Swedbank
Inverse problems: Reconstruction, compression, sparse methods, Signal processing



(Anders Forsgren)

Optimization of Radiation therapy:
Inverse problem to find treatment plan to
realize the desired dose distribution
Intensity-Modulated Radiation Therapy
Intensity-Modulated Proton Therapy
Robustness, Uncertainty, Multiobjective



MMA Software - Method of Moving Asymptots (K. Svanberg)
Users: Saab, Alfgam, Toyota, FE-Design, Vestas, Comsol ...
Structural optimization: H. Svärd (Ind. Ph.D. SCANIA, 2015)
“Topology Optimization of Fatigue-Constrained Structures”

KTH projects, Platforms

- Transportation platform - Traffic & Logistics, Transport & Location analysis, Lightweight structures, Internal Combustion engines (CCGEx), Integrated transport research lab (ITRL)
- Information and Communication Technology (ICT) - Computer vision and active perception lab (CVAP), Centre for autonomous systems (CAS)
- Mechatronics and embedded control systems - Integrated Design and Optimization of Mechatronic Products (IDIOM)
- Autonomic Complex Communication nEtworks, Signals and Systems (ACCESS) - Automatic Control lab, Signal processing.