

4th Workshop on Quality Improvement Methods
at the Universitätskolleg Bommerholz
Bommerholzer Str. 60, 58456 Witten-Bommerholz
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Program

Friday, April 1, 2005

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| until 14:00 | Meeting at the Department of Statistics, University of Dortmund |
| 14:00 | Transfer to Bommerholz (by car) |
| Session 1: Statistical Methods | |
| 14:45 | Opening |
| 15:00 - 15:30 John Stufken (Athens) | Orthogonal arrays -- with or without additional structure and properties |
| 15:45 - 16:15 Detlef Steuer (Hamburg) | Some statistical properties of multicriteria- optimization using Derringer-Suich desirabilities |
| 16:30 | Coffee |
| Session 2: Current work at the SFB 475 | |
| 16:45 - 17:15 Nils Raabe (Dortmund) | Spiralling in BTA deep-hole drilling – Models of varying frequencies |
| 17:30 - 18:00 Nadine Henkenjohann (Dortmund) | An efficient optimization approach for sheet metal spinning |
| 18:15 | Dinner |
| from 20:00 | Informal discussions in the bar of the institute |

Saturday, April 2, 2005

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| from 7:30 | Breakfast |
| Session 3: Experimental design 9:00 - 9:30 Tormod Naes (Ås) | Combining categorical design variables and spectroscopic measurements in process modelling – general principles |
| 9:45 - 10:15 Kjetil Jørgensen (Ås) | Combining categorical design variables and spectroscopic measurements in process modelling – examples |
| 10:30 | Break / Coffee |
| Session 4: Evolutionary Multivariate Optimization | |
| 11:00 - 11:30 Jörn Mehnert (Dortmund) | Multiobjective Evolutionary Algorithms - A practical presentation of the state-of-the-art with examples from mechanical engineering |
| 11:45 - 12:15 Jürgen Branke (Karlsruhe) | Evolutionary Multi-criteria Optimization for Robust Designs |
| 12:30 | Lunch / Walk /Coffee |
| Session 5 Applications in Industry | |
| 15:30 - 16:00 Ulrike Grömping (Berlin) | Robustness assessment of exhaust manifolds |
| 16:15 - 16:45 Anja Schleppe (Dachau) | Limit Inflaters – How DOE and Monte-Carlo can be applied to build inflators which represent long-term production variability |
| 17:00 - 17:30 Jan Engel (Eindhoven) | Measurement agreement |
| 17:45 | Closing |
| 18:00 | Dinner / End of the workshop |