

CHALMERS



UNIVERSITY OF GOTHENBURG

Workshop on

Optimization of Maintenance Activities

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Models, Methods and Applications

Department of Mathematical Sciences and
Gothenburg Mathematical Modelling Centre (GMMC)

Chalmers University of Technology and
University of Gothenburg

10–11 December 2009

Optimization of Maintenance Activities—Models, Methods and Applications
Final program
Thursday, December 10, 2009, lecture room Euler

09.30–10.00	Registration and refreshments		
10.00–10.25	Opening address	Michael Patriksson Department of Mathematical Sciences and GMMC, Chalmers, Göteborg	
10.25–10.30	Short break		
10.30–11.30	Plenary talk	Professor Andrew K. S. Jardine , Centre for Maintenance Optimization and Reliability Engineering, Department of Mechanical and Industrial Engineering, University of Toronto, Canada	On the optimization of condition-based maintenance decisions
11.30–13.00	Lunch at Hyllan, Chalmers kårhus		
13.00–13.35	Regular talk	Håkan Westerlund , Centre for Operations and Maintenance, KTH, Stockholm	Maintenance backlog—reasons and measures
13.35–13.40	Short break		
13.40–14.15	Regular talk	Christiano Lyra , Faculty of Electrical and Computer Engineering, University of Campinas, Brazil	Hierarchical multiple criteria optimization of maintenance activities on power distribution networks
14.15–14.20	Short break		
14.20–14.55	Regular talk	Lina Bertling , Department of Energy and Environment, Chalmers, Göteborg	Maintenance management of sustainable electric power systems
14.55–15.20	Refreshments		
15.20–15.55	Regular talk	Ann-Brith Strömberg , Department of Mathematical Sciences, Chalmers, Göteborg	Optimization of maintenance plans for aircraft engines—application to operations at Volvo Aero
15.55–16.00	Short break		
16.00–16.35	Regular talk	Markus Bohlin , Swedish Institute of Computer Science, Västerås	Maintenance optimization with duration-dependent setup costs
16.35–16.40	Short break		
16.40–17.15	Regular talk	Alireza Ahmadi , Division of Operation and Maintenance Engineering, Luleå University	Maintenance optimization model for aircraft system considering hidden failures
17.15–19.00	Break		
19.00–	Workshop dinner at Hyllan, Chalmers kårhus		

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09.00–10.00	Plenary talk	Professor Rommert Dekker , Econometric Institute, Erasmus University, Rotterdam, The Netherlands	Maintenance planning and production: An overview
10.00–10.25	R e f r e s h m e n t s		
10.25–11.00	Regular talk	Anders Holst , Swedish Institute of Computer Science, Stockholm	Optimal test planning for HCF testing
11.00–11.05	S h o r t b r e a k		
11.05–11.40	Regular talk	Jacques de Maré , Department of Mathematical Sciences, Chalmers, Göteborg	Maintenance for reliability
11.40–11.50	F o t o s e s s i o n a t M V : s m a i n e n t r a n c e		
11.50–13.00	L u n c h a t H y l l a n , C h a l m e r s k å r h u s		
13.00–13.35	Regular talk	François Besnard , School of Electrical Engineering, KTH, Stockholm	A stochastic model for opportunistic maintenance planning of offshore wind power systems
13.35–13.40	S h o r t b r e a k		
13.40–14.15	Regular talk	Magnus Önnheim , Department of Mathematical Sciences, Chalmers, Göteborg	The facial structure of and efficient solution methods for the opportunistic replacement problem
14.15–14.50	R e f r e s h m e n t s		
14.50–15.25	Regular talk	Idriss El-Thalji , School of Technology and Design, Växjö University	Maintenance optimization practices within wind power system: state of the art seeking site and season dependent models
15.25–15.30	S h o r t b r e a k		
15.30–16.05	Regular talk	Adam Wojciechowski , Department of Mathematical Sciences, Chalmers, Göteborg	Optimization of opportunistic maintenance for multi-component systems using stochastic programming
16.05–16.30	Closing address	Michael Patriksson, Ann-Brith Strömberg & Bo Hägg Department of Mathematical Sciences, Chalmers, Göteborg and Swedish Centre for Maintenance Management, Göteborg	

Find your way to Chalmers Campus Johanneberg

Arrival by train: At Drottningtorget, outside the station building, you will find the *tram 7, direction Tynnered*. The tram stops at *Chalmers*. The time of departure for buses and trams is found at www.vasttrafik.se

Arrival by air: Bus from *Landvetter Airport* to *Korsvägen*, where you can catch *tram 6, direction Länsmansgården*, *tram 8, direction Frölunda Torg*, or *tram 13, direction Marklandsgatan*. The trams stop at Chalmers. Total time 40 minutes. More information about Landvetter Airport, for example where to find the airport coaches, a taxi or rent a car can be found at www.lfv.se

Arrival by car: Follow the signs marked with a red cross and *Sahlgrenska sjukhuset*.

Homepage: www.chalmers.se

