



Friday, July 9, 2004

Day of Arrival

18.00-19.00: Welcome Party by the Institute of Applied Mathematics

19.00-20.00: Dinner

Saturday, July 10, 2004

Chair: G. W. Weber

8:00 - 9:00: Breakfast

9:00 - 9:30: Opening of the XXII EURO Summer Institute

9:30 - 10.30: “Operational Research: the first 97 years”, *Jakob Krarup, University of Copenhagen, Department of Computer Science, Denmark*

10:30 - 11.00: Coffee Break

11:00 – 12:00: “Mining large high dimensional text data”, *Jacob Kogan, UMBC, Department of Mathematics and Statistics & Department of Computer Science and Electrical Eng., USA*

12:00 - 13:00: Lunch

15:00 – 16:30: “Semi-infinite optimization problems: An introduction”, *Georg Still, University of Twente, Department of Mathematics, The Netherlands*

16:30 - 17.00: Coffee Break

17:00 – 17: 45 “Optimal solution in visual data mining”, *Virginijus Marcinkevièius, Institute Mathematics and Informatics, Vilnius Gediminas Technical University, Lithuania*

18:00 - 19:00: Dinner



July 9 - July 25, 2004,
Middle East Technical University Ankara, Turkey

Sunday, July 11, 2004

Chair: Ş. Düzgün

8:00 - 9:00: Breakfast

9:00 - 10:30: “Semi-infinite optimization problems: an introduction”, *Georg Still, University of Twente, Department of Mathematics, The Netherlands*

10:30 - 19:00: Trip to Beypazarı



July 9 - July 25, 2004,
Middle East Technical University Ankara, Turkey

Monday, July 12, 2004

Chair: G. Still

8:00 - 9:00: Breakfast

9:00 - 10:45: “Statistical aspects of data mining”, *Michael Kohler, University of Stuttgart, Department of Mathematics, Germany*

10:45 - 11:15 Coffee Break

11:15 - 12:00: “Data mining process in telecommunications for fraud behaviour detection”, *Jelena Mamcenko, Institute Mathematics and Informatics, Vilnius Gediminas Technical University, Lithuania*

12:00 - 13:00: Lunch

15:00 – 16.00: “Mining large high dimensional text data”, *Jacob Kogan, UMBC , Department of Mathematics and Statistics & Department of Computer Science and Electrical Eng., USA*

16:00 - 16.30: Coffee Break

16:30 - 17:30: “A methodology to updating classs structures based on fuzzy clustering”, *Fernando Crespo, Catholic University of Chile, Department of Industrial Eng., Chile*

18:00 - 19:00: Dinner



July 9 - July 25, 2004,
Middle East Technical University Ankara, Turkey

Tuesday, July 13, 2004

Chair: S. Flam

8:00 - 9:00: Breakfast

9:00 - 10:00: “Mining large high dimensional text data”, *Jacob Kogan, UMBC, Department of Mathematics and Statistics & Department of Computer Science and Electrical Eng., USA*

10:00 - 10:45: “Using adaptive learning in credit scoring to estimate take-up probability distribution”, *Hsin-Vonn Seow, University of Southampton, School of Management, UK*

10:45 - 11:15 Coffee Break

11:15 - 12:00: “Evolutionary optimisation coupled to machine learning evolutionary optimisation coupled to machine learning”, *Anne-Lise Huyet, French Institute of Advanced Mathematics, Clermont-Ferrand, France*

12:00 - 13:00: Lunch

15:00 - 16:00: “Statistical aspects of data mining”, *Michael Kohler, University of Stuttgart, Department of Mathematics, Germany*

16:00 - 16:30: Coffee-Break

16:30 - 17:30: “On spatial data analyses and applications”, *H. Şebnem Düzgün, Geodetic and Geographic Information Technologies, METU, Ankara, Turkey*

18:00 - 19:00: Dinner



July 9 - July 25, 2004,
Middle East Technical University Ankara, Turkey

Wednesday, July 14, 2004

Chair: J. Krarup

8:00 - 9:00: Breakfast

9:00 - 10:00: “Statistical aspects of data mining”, *Michael Kohler,*
University of Stuttgart, Department of
Mathematics, Germany

10:00 - 17:00: Visit of Old City of Ankara and ‘Museum of
Anatolian Civilizations’

18:00 - 19:00: Dinner



July 9 - July 25, 2004,
Middle East Technical University Ankara, Turkey

Thursday, July 15, 2004

Chair: M. Kohler

8:00 - 9:00: Breakfast

9:00 - 10:00: “Newton method and its use in optimization”, *Boris Polyak, Institute of Control Science, Moscow, Russia*

10:00 - 10:45: “Modelling gene regulatory networks with piecewise linear differential equations”, Part 1, *Nicole Radde, University of Cologne, Center for Applied Computer Science, Germany*

10:45 - 11:15 Coffee-Break

11:15 - 12:00: “Modelling gene regulatory networks with piecewise linear differential equations”, Part 2, *Jutta Gebert, University of Cologne, Center for Applied Computer Science, Germany*

12:00 - 13:00: Lunch

15:00 - 16:00: "Clustering and classification via nonsmooth and global optimization" *Alexander Rubinov, School of Information Technology and Mathematical Sciences, University of Ballarat, Australia*

16:00 - 16:30: Coffee-Break

16:30 - 17:30: “Newton method and its use in optimization”, *Boris Polyak, Institute of Control Science, Moscow, Russia*

18:00 - 19:00: Dinner



July 9 - July 25, 2004,
Middle East Technical University Ankara, Turkey

Friday, July 16, 2004

Chair: J. Kogan

8:00 - 9:00: Breakfast

9:00 - 10:00: "Clustering and classification via nonsmooth and global Optimization" *Alexander Rubinov, School of Information Technology and Mathematical Sciences, University of Ballarat, Australia*

10:00 - 10:45: "Support vector machines and artificial neural networks", *Stefan Lessmann, Institute University of Hamburg, Department of Business Administration, Germany*

10:45 – 11.15 Coffee-Break

11:15 - 12:00: "Partitioning cographs into cliques and stable sets", *Tinaz Ekim, Ecole Polytechnique de Lausanne, Department of Mathematics, Switzerland*

12:00 - 13:00: Lunch

15:00- 16:00 "Newton method and its use in optimization", *Boris Polyak, Institute of Control Science, Moscow, Russia*

16:30 - 17:00: Coffee-Break

17:00 - 18:00: "Abstract convexity with applications to optimization", *Alexander Rubinov, School of Information Technology and Mathematical Sciences, University of Ballarat, Australia*

18:00 - 19:00: Reception by the Operations Research Society of Turkey

19.00 - 20.00: Dinner



July 9 - July 25, 2004,
Middle East Technical University Ankara, Turkey

Saturday, July 17, 2004

8:00 - 9:00: Breakfast

Trip to Cappadocia

Sunday, July 18, 2004

16:00: Back to Ankara



July 9 - July 25, 2004,
Middle East Technical University Ankara, Turkey

Monday, July 19, 2004

Chair: B. Polyak

8:00 - 9:00: Breakfast

9:00 - 10:00: “Differential equations and games”, *Sjur Didrik Flam, University of Bergen, Department of Economics, Norway*

10:00 - 10:45: “A reconstruction and optimization problem in discrete tomography”, *Öznur Yaşar, Inst. of Applied Math. & Departments of Math., Middle East Technical University, Turkey*

11:15 - 12:00: “Soft computing techniques for high dimensional problems: an illustration with bond reating-prediction”,
Sethuraman J, Indian Institute of Management Calcutta, India

12:00 - 13:00: Lunch

15:00 – 16:00: “Recent advances in barrier methods in nonlinear programming”, *Larry Biegler, Carnegie Mellon University, Chemical Eng Department, USA*

16:00 - 16:30 Coffee-Break

16:30 – 17:15: “Model combination in neural-based forecasting”,
Paulo S.A. Freitas, Dep. de Matemática e Engenharias, Universidade da Madeira, Portugal

18:00 - 19:00: Dinner



July 9 - July 25, 2004,
Middle East Technical University Ankara, Turkey

Tuesday, July 20, 2004

Chair: R. Güllü

8:00 - 9:00: Breakfast

9:00 - 10:00: “Trust region algorithms for parameter estimation”,
*Larry Biegler, Carnegie Mellon University,
Chemical Eng Department, USA*

10:00 - 10:45: “A patient adaptable ECG beat classifier based on
neural networks”, *Arnaldo Risi, Istituto di Analisi dei
Sistemi ed Informatica "Antonio Ruberti", Italy*

10.45- 11.15: Coffee Break

11.15-12.00: “The Mizuno-Todd-Ye predictor-corrector algorithm
for sufficient matrix linear complementarity
problem”, *Marianna Nagy, Eotvos Lorand
University of Sciences, Department of Applied
Math., Hungary*

12:00 - 13:00: Lunch

Chair: H. Söral

15:00 - 16:00: “Extremal convolutions and core solutions”, *Sjur
Didrik Flam, University of Bergen, Department of
Economics, Norway*

16:00 - 16:30 Coffee Break

16:30 - 17:15: “Solving the least squares method problem in the
AHP”, *Sándor Bozóki, Budapest University of
Economic Sciences and Public Administration,
Hungary*

17.15- 18.00: “Association rules discovery for DNA microarray
data”, *Mohammed Khabzaoui, Universite des Sci. et
Techn. de Lille, Laboratoire da Informatique
Fondamentale, France*

18:00 - 19:00: Dinner



July 9 - July 25, 2004,
Middle East Technical University Ankara, Turkey

Wednesday, July 21, 2004

Chair: M. Akhmet

8:00 - 9:00: Breakfast

9:00 - 10:00: “Optimization algorithms for M-estimators in data reconciliation”, *Larry Biegler, Carnegie Mellon University, Chemical Eng Department, USA*

10:00 - 10:45: “On the root invariant regions structure for linear systems”, *Elena Gryazina, Moscow Inst. of Physics and Techn., Department of Aerophysics and Space Research, Russia*

10.45 – 11.15: Coffee Break

11:15 - 12:00: “Dealing with low demand in cutting stock problems - constructive heuristics versus versus column generation approaches”, *Kelly Christian Poldi, University of Sao Paulo, Department Computer Sciences and Computational Math., Brazil*

12:00 - 13:00: Lunch

13:00 – 18:00: Social Activity

18:00 - 19:00: Dinner



Thursday, July 22, 2004

Chair: H. Öktem

8:00 - 9:00: Breakfast

9:00 - 10:00: “Market games and finance”, *Sjur Didrik Flam, University of Bergen, Department of Economics, Norway*

10:00- 10:45: “On the subproblem of cutting angle method of global optimization”, *Burak Ordin, Ege University, Department of Mathematics, Turkey*

10.45 – 11.15: Coffee Break

11:15 - 12:00: “On dominating and residual metrics in problems of intellectual data handling” *Gleb Nikitov, Computer Center of the Russian Academy of Sciences, Russia*

12:00 - 13:00: Lunch

15:00 - 16:00: “Treatment of unknown information for steady-state optimization”, *Larry Biegler, Carnegie Mellon University, Chemical Eng Department, USA*

16:00 - 16:30: Coffee Break

16:30 - 17:30: “On gradient methods”, *Sjur Didrik Flam, University of Bergen, Department of Economics, Norway*

18:00 - 19:00: Dinner



Friday, July 23, 2004

Chair: L. Biegler

8:00 - 9:00: Breakfast

9:00 - 9:45: “Multiclass logical analysis of data algorithm for protein structure prediction Problems”, *Piotr Lukasiak Poznan University of Technology, Institute of Computing Science, Poland*

9.45 – 10.30: “Classification of folding types in proteins using MILP”, *Fadime Üney, Graduate School of Engineering, Koç University, İstanbul, Turkey*

10:30 – 11:00: Coffee Break

11:00 - 11:45: “Two group classification via a biobjective margin maximization model”, *Belén Martín Barragán, Fac. Matemáticas. Universidad de Sevilla, Spain*

12:00 - 13:00: Lunch

13:00 – 18:00: Social Activity

18:00 - 19:00: Dinner



July 9 - July 25, 2004,
Middle East Technical University Ankara, Turkey

Saturday, July 24, 2004

8:00 - 9:00: Breakfast

9:00-9.45: “Customer segmentation via mathematical programming”, *Burcu Sağlam, Graduate School of Engineering, Koç University, İstanbul, Turkey*

9:45-10:30: Coffee Break

10:30: 11:00: Conclusion of ESI 2004

12:00 - 13:00: Lunch

19:00 - 22:00: ESI 2004 Dinner and Farewell-Party

Sunday, July 25, 2004

8:00 - 9:00: Breakfast

9:00 Trip to home