

Curriculum vitae of C. Roos

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1 Personal data

Name: Cornelis Roos.
Date of birth: April 9, 1941.
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2 Degrees

- Doctoral degree in Mathematics, Delft University of Technology, 1975. Thesis title: Regularities of Rings.
- Master degree in Mathematics, Delft University of Technology, 1969. Thesis title: Error-Correcting Codes.

In both cases Prof. dr. F. Loonstra was the supervisor.

3 Professional career

2002– : Full professor, Department of Electrical Engineering, Computer Science and Mathematics, Delft University of Technology.
1998–2002: Professor (parttime), Department of Mathematics and Physical Sciences, University of Leiden.
1985–2002: Associate professor, Department of Technical Mathematics and Informatics, Delft University of Technology.
1969–1985: Assistant professor, Department of Technical Mathematics and Informatics, Delft University of Technology.
1964–1964: Research fellow, Research Laboratories of the Royal Dutch Steel Factories at IJmuiden, NL.
1962–1964: Electronics Officer, Academy for Electronic Officers and Subofficers (L.E.T.S.), Deelen, NL.
1961–1962: Research fellow, Research Laboratories of the Dutch PTT (DNL), Leidschendam, NL.

4 Professional Activities

4.1 Teaching

4.1.1 Undergraduate and graduate courses

Calculus, Linear Algebra, Differential Equations, Fourier and Laplace Transformations, Graph Theory, Coding Theory, Introduction to Operations Research, Network Models and Algorithms, Linear and Convex Optimization, Combinatorial Optimization, Complexity Theory.

4.1.2 Postgraduate course

Ph.D. course *Mathematical Optimization*, for the Landelijk Netwerk Mathematische Besliskunde (LNMB). This course is also incorporated in the program of the Stieltjes Instituut.

4.1.3 Master degree students

Supervised more than 70 master degree students in the field of Operations Research. Six of them (Dick den Hertog (1989), Astrid Wisse (1994), Sascha Lanser (1996), Lucie P. Aarts (1999), Anna de Jong (2000) and Bert Quak (2003)) were awarded by the Universiteitsfonds Delft (UfD) for the best master thesis of the year in the Department of Mathematics and Informatics. Three of them (Joost Warners in 1996, Arjan Berkelaar in 1997, and Lucie Aarts in 2000) received the annual VVS-price for the best master thesis in the field of Statistics and Operations Research in the Netherlands; in 2004 Alex Siem got an ‘honorful mentioning’ in this national competition. Moreover, Muriel Poelman was awarded by the UfD for the best master thesis of 2004 in the Department of Electrical Engineering, Computer Science and Mathematics.

4.1.4 Ph. D. students

Name	From	To	Financial support by
Ir. Dick den Hertog	June 1989	– September 1992	Shell Research
Drs. Benjamin Jansen	December 1991	– December 1995	NWO
Drs. Jos Sturm	September 1993	– September 1997	EUR (Timbergen Institute)
Drs. Etienne de Klerk	January 1994	– December 1997	TU Delft
Ir. Arie J. Quist	May 1995	– May 1999	IRI (DUT)
Jiming Peng	September 1997	– September 2001	NWO
Mohamed Elghami	May 2001	– November 2005	NWO
Diah Chaerani	October 2001	– November 2006	KNAW
Gamal Elabwabi	October 2003	– March 29, 2007	NWO (UvT)
Manuel Vieira	October 2003	– November 13, 2007	Portugal
Ivan Ivanov	September 2003	– June 5, 2008	TU Delft
Hossein Mansouri	April 2004	– June 16, 2008	Iran
Guoyong Gu	September 2005	– September 18, 2009	NWO
Bib P. Silalahi	March 2005	– March 2009	TUD
Alireza Asadi	January 2006	– January 2010	NWO
Maryam Zangiabadi	January 2006	– January 2010	ICT
Henk Post	April 2006	– April 2010	extern

Den Hertog, Jansen and Peng received their PhD degree cum laude. Den Hertog was a finalist for the Tucker Prize of the Mathematical Programming Society. His and Jansen’s thesis were published by Kluwer. Peng’s thesis was published by Princeton University Press; he received the Stieltjes Prize, for the Stieltjes student with the best mathematical Ph.D. thesis in 2001. I was external supervisor for Jos Sturm (Erasmus University) and member of several other PhD committees:

Arie Koster (University of Maastricht),
 Francois Glineur (Faculté Polytechnique de Mons, Belgium),
 René van Geemert (IRI, TU Delft),
 Tjark Vredeveld, Technical University of Eindhoven, (2002),
 Cor Veenman (Dpt. Electrical Engineering, TU Delft, 2002),
 Mischa van Bossum (University of Utrecht, 2002),
 Tom van der Hoeven (University of Groningen, 2004),
 Tran Minh Thuan (TU Delft, Fac. CT, 2004),
 Fernando A. Kuipers (TU Delft, Dpt. EWI, 2004),
 M. Salman A.N. (TU Twente, 2005),
 Vesulin Vavrek (TU Delft, Dpt. EWI, 2005),
 Edin Alijagic (TU Delft, Dpt. EWI, 2005),
 Koen Vervenne, (TU Delft, Dpt. WMTTM, 2005),
 Linda van Norden (TU Delft, Dpt. EWI, 2006),
 I Nengah Suparta, (TU Delft, Dpt. EWI, 2006),
 Pjotter Jaszczak, (TU Delft, Dpt. EWI, 2006),
 Michel Baes (UCL, CORE, Louvain-la-Neuve)
 Ion Necoara, (TU Delft, Dpt. Wb, 2006),

Camile Hol, (TU Delft, Dpt. EWI, 2006),
Brent Vermeulen, (TU Delft, Dpt. LR, 2007),
Niels Olieman, (Universiteit van Wageningen, 2008)
Nebojša Gvozdenović (Universiteit van Amsterdam, 2008)
Diana Radkova (TU Delft, Dpt. EWI, 2009),
Maarten van Turnhout (TU Delft, Dpt. Nat, 2009),
Robert Chares UCL (CORE, Louvain-la-Neuve).

4.2 Research

4.2.1 Memberships

1. Het Koninklijk Wiskundig Genootschap (Royal Dutch Mathematical Society),
2. Vereniging voor Statistiek (VVS),
3. Mathematical Programming Society (MPS),
4. American Mathematical Society (AMS),
5. Society of Industrial and Applied Mathematics (SIAM),
6. Institute for Operations Research and the Management Sciences (INFORMS),
7. Die Suid-Afrikaanse Akademie Vir Wetenskap en Kuns (corresponding member),
8. Dutch Research Institutes STIELTJES and EIDMA.

4.2.2 Editorships

1. Member editorial board of *Algorithmic Operations Research* (from 2006).
2. (with J. Zhang) Proceedings of Hangzhou (China) meeting in three special issues of *Optimization, Methods & Software*, Vol. 19 (3), 2003 and Vol. 20 (3–4), 2004.
3. Member editorial board of *SIAM Journal on Optimization* (since 2003).
4. (with F. Potra and T. Terlaky) Special issue of *Optimization, Methods & Software* on Interior-Point Methods, Vol. 11 (1–4) – 12 (1–4), 690 pages, with CD, 2000.
5. Member editorial board of *Optimization and Engineering* (since 1999).
6. Proceedings HPOPT'97 (with S. Zhang, H. Frenk and T. Terlaky). *High Performance Optimization Techniques*, 473 pages. Kluwer Academic Publishers, Dordrecht, The Netherlands, 1999.
7. (with Dr. T. Terlaky) Special issue *Applied Numerical Mathematics*. Proceedings International Stieltjes Workshop *High Performance Optimization Techniques (HPOPT'96)*, Delft, September 19-20, 1996, Volume 29, 1999.
8. (with Dr. F. Jarre, University of Würzburg, Germany) Special issue of *Optimization, Methods & Software* dedicated to Prof. Naum Shor on the occasion of his 60th birthday, Volume 9, No. 1–3, 1998.
9. Member editorial board of the electronic journal *Advanced Modeling and Optimization* (since 1998). Adres: <http://www.ici.ro/camo/hej.html>.
10. Editor of *International Journal of Mathematical Algorithms* (since 1997).
11. Associate editor of *Operations Research Letters* (1994 – 2000).
12. Member editorial board of *Optimization Methods & Software* (since 1994).
13. Member Editorial Committee of *Numerical Mathematics*, A Journal of the Chinese Universities (since 1993).
14. (with Prof. Dr. J.-Ph. Vial, University of Genève) *Interior Point Methods for Linear Programming: Theory and Practice*, Special issue of *Mathematical Programming (B series)* Volume 52, No. 3, 1991.
15. (with Prof. Dr. A.W. Grootendorst, TUD) *Autour de Frans, nine papers dedicated to Prof. Dr. Frans Loonstra on the occasion of his seventieth birthday*, CWI, Amsterdam, 1980.

4.2.3 Committees

1. Prize committee of the *Vereniging voor Statistiek* (VVS) (1995 – 1999).
2. Scientific Committee of the Department Information Technology and Systems (VCWb) (1997–2001).
3. Scientific Committee of the *Stieltjes Instituut* (October 1999 – January 2004).
4. Evaluation Committee Wiskunde of the Dutch Scientific Organisation (NWO), Open Competition (2000–2001).
5. Board of the Dutch *Landelijk Netwerk Mathematische Besliskunde* (2000–2003).
6. INFORMS Optimization Section Prize Committee for Young Researchers (2000).
7. Elected Member of the Council of the Mathematical Programming Society (2000 – 2003).
8. Program leader (with prof. dr. A. Schrijver) of the project *Discrete Mathematics and Optimization* of the Thomas Stieltjes Institute for Mathematics (2001 – present).
9. Evaluation Committee of the Dutch Scientific Organisation (NWO), VENI-programme, 2002.
10. Secretary/Treasurer of the Optimization Section of SIAM (elected) (2004 – 2008).

4.2.4 Organisation of meetings

1. 8th International Workshop *High Performance Optimization Techniques (HPOPT 2004)*. June 23–25, 2004, CWI, Amsterdam, Member program and organizing committee.
2. Summerschool *Modern Convex Optimization*. August 26–30, 2002, CORE, Université catholique de Louvain, Louvain-la-Neuve, Member organizing committee.
3. 7th International Workshop *High Performance Optimization Techniques (HPOPT 2002)*. June 27–28, 2002, KUB, Tilburg, Member program committee.
4. 7th SIAM Conference on *Optimization*. May 20–22, 2002, Toronto, Canada, Session organizer.
5. INFORMS *Fall 2001 Meeting*. November 3–7, 2001, Miami, Florida, USA, Organizer of 4 sessions.
6. 17th International Symposium on *Mathematical Programming*. August 7–11, 2000, Atlanta, Georgia, USA, Session organizer.
7. INFORMS *Spring 2000 Meeting*. May 7–10, 2000, Salt Lake City, Utah, USA, Session organizer.
8. Fifth International Workshop *High Performance Optimization Techniques (HPOPT 2000)*. June 7–9, 2000, World Trade Center, Rotterdam, Member program committee.
9. INFORMS *Fall 1999 Meeting*. November 7–10, 1999, Philadelphia, PA, USA, Session organizer.
10. Fourth International Workshop *High Performance Optimization Techniques*. June 16–18, 1999, World Trade Center, Rotterdam, Member organizing committee.
11. Sixth SIAM Conference on *Optimization*. May 10–12, 1999, Atlanta, Georgia, USA, Session organizer.
12. INFORMS *National Meeting*. October 25–28, 1998, Seattle, Washington, USA, Session organizer.
13. Third International Workshop *High Performance Optimization Techniques*. June 17–19, 1998, Rotterdam, Chairman organizing committee.
14. Second International Workshop *High Performance Optimization Techniques*. August 20–22, 1997, Rotterdam, Chairman organizing committee.
15. International Stieltjes Workshop *High Performance Optimization Techniques*. September 19–20, 1996, Delft, Chairman organizing committee.
16. Fifth SIAM Conference on *Optimization*. May 20–22, 1996, Victoria, British Columbia, Canada, Session organizer.
17. CALMA Symposium *Combinatorial Algorithms for Military Applications*. November 24, 1995, Scheveningen, Chairman organizing committee.
18. International Workshop *Optimization in Production and Transportation*. November 9 – 11, 1994, Scheveningen, Chairman organizing committee (with Prof. Dr. Schrijver).
19. International Workshop *Optimization in Engineering Design*. November 7 – 8, 1994, Louvain-La-Neuve, Belgium, Member Program Committee.

20. International Workshop *Interior Point and Complementary Pivoting Algorithms*. March 9, 1993, Delft, Program Committee (with Prof. Talman and Prof. Mitra).
21. International Workshop *Interior Point Methods for Mathematical Optimization*. January 7 – 9, 1993, Budapest, Program Committee (with Dr. T. Terlaky).
22. International Workshop *Nondifferentiable and Large Scale Optimization*. April 27-28, 1992, Genève, Program Committee (with Prof. Dr. J.-Ph. Vial, University of Genève).
23. International Symposium on *Interior Point Methods for Linear Programming: Theory and Practice*. January 18-19, 1990, Scheveningen, Chairman Program Committee (with Dr. T. Terlaky).
24. Weekly *Operations Research seminar*. 1992 – 2002, TU Delft, Coordinator.

4.2.5 Research Projects

NWO projects

1. Leader PhD project *Interior Point Methods for Linear and Nonlinear Programming* (December 1991 – December 1995);
2. Leader PhD project *Semidefinite Optimization and System Control* (June 1997 – June 2001);
3. Leader postdoc project *High Performance Parallel Algorithms for the Frequency Assignment Problem* (April 1997 – April 1999);
4. Coordinator of the national ‘Groot SWON project’ *High Performance Methods for Mathematical Optimization* (January 1, 1998 – January 1, 2002). With Dr. J. Brinkhuis (Erasmus University), Prof. Dr. J.K. Lenstra (Eindhoven University of Technology) and Prof. Dr. H.A. van der Vorst (University of Utrecht);
5. Leader PhD and postdoc project *New barrier functions for cone optimization* (September 2001 – September 2005).
6. Leader postdoc project *Semidefinite programming, nonnegative polynomials, and approximation theory* (December 2002 – December 2004).
7. Leader PhD project *New efficient methods for cone optimization* (September 2005 – September 2009).

EC projects

1. *Learning and teaching Operations Research and Management Science (OR/MS) with a Web based Hypermedia Learning Environment*, EC Programme IST-1999-11124. Local projectleader: C.Roos.
2. *High Performance interior-point based decomposition methods for structured convex optimization*, EC ERBFMBICT972478-TWI-97-017, TMR Marie Curie Research Training Grant for Dr. E.D. Andersen (Odense University, Denmark), February 1998 – February 2000. Projectleaders: C.Roos and T.Terlaky.
3. *EUCLID project (CALMA)* European project on *Solution methods for hard combinatorial optimization problems, especially the radio link frequency assignment problem*. Participating organizations: TUE (NL), TUD (NL), LU (NL), TNO (NL), CERT (Toulouse, France), Kings’ college (London, UK), Univ. of East Anglia (Norwich, UK). Project leader in Delft. See also Section 5.6.
4. Coordinator of the network proposal *High Performance Optimization Algorithms and Applications*. Other local coordinators: A. Ben-Tal & A. Nemirovski (Technion, Haifa, Israel), J.-Ph. Vial (Geneva, Switzerland), C. Lemaréchal (INRIA, Paris, France), J. Stoer (Würzburg, Germany), J. J. Júdice (Coimbra, Portugal), M. Goemans, Yu. Nesterov & L. Wolsey (CORE, Louvan-la-Neuve, Belgium).

STW projects

1. Participant in STW-project DPR66.4056: Design and Implementation of Mixed Integer Non-linear Programming Algorithms (Ph.D. project G.J. Kloosterman). In cooperation with Paragon Decision Technology B.V., Haarlem (Prof. Dr. J. Bischof) 1997–2001.
2. Participant in STW-project: Integral Linear LF Vermogensversterkers (Ph.D. project Reza Mahmoudi). In cooperation with Philips and the Faculty of Electrotechniek (DIMES, Prof. Dr. Ir. J.W. Slotboom, Prof. Dr. C.I.M. Beenakker, J.L.Tauritz, M.Sc) 1996–1999.

Other projects

1. *Ph.D. project in cooperation with IRI*. Subject: Optimal reloading patterns for nuclear reactor. Ph.D. project, financed by Interfacultair Reactor Instituut (IRI/TUD).
2. *Cooperation with Shell Research*. Leader of the project *Interior Point Methods* (September 1990 – September 1993).
3. *KNAW project Cooperation Netherlands – Indonesia*. Leader of the project *Discrete Mathematics and Optimization* (April 2000 – April 2004).
4. *KNAW project Cooperation Netherlands – China*. Leader of the project *Highly Efficient Interior-point Methods for Conic Optimization* (June 2006 – July 2008).
5. *Optimal safety of dikes in the Netherlands* (2007 - 2009).

4.2.6 Grants for visits and visitors

Several travel grants were given by the KNAW. In 1993 a two week visit to China and Japan was supported by the KNAW. In 1994 visitor grants were given by NWO for visits of Prof. Y. Ye (University of Iowa, USA) and Dr. Y. Nesterov (Russian Academy of Sciences, Moscow). Also in 1994 Dr. T. Illés (Eötvös University, Budapest) was a research fellow in the Optimization group with a grant of the Hungarian Ministry of Education. The Stieltjes Institute supported visits of Prof. A. Ben-Tal (Technion, Haifa, Israel), Prof. M.J. Todd (Cornell University, Ithaca, USA) and Prof. I.I. Dikin (Siberian Energy Institute, Irkutsk). In 1997 NWO supported visits of Prof. Y. Ye (University of Iowa, USA), Prof. Dr. L. Vandenberghe (Stanford University, USA) and Prof. Dr. J.E. Mitchell (Rensselaer Polytechnical Institute, Troy, NY, USA). Prof. Mitchell spends his sabbatical leave in Delft in the academic year 1997/1998. In 1998 the TUD supported a 6 month visit of Prof. Dr. A. Nemirovski (Technion, Haifa, Israel) as guest professor. Dr. Erling Andersen (Odense University, Odense, Denmark) spent two years in Delft with a TMR Marie Curie Research Training grant. In 1999 M. Újvári (Eötvös University, Budapest) spent three months in Delft, supported by the Hungarian Ministry of Education and F. Glineur (University Polytechnique de Mons, Belgium) got a grant of the Belgian Scientific Organization for a stay of 5 months in Delft. The TU Delft supported a 3 month visit of Prof. Dr. R.M. Freund (MIT, Cambridge, USA) as guest professor in 1999, and in 2000/2001 a 12 month visit of Prof. A. Ben-Tal (Technion, Haifa, Israel) and a 6 month visit of Prof. R. Monteiro (Georgia Tech, Atlanta, USA). In 2001, Yanqin Bai spends 12 months in Delft with a Chinese grant, and Maria Gonzalez spends 6 months of sabbatical leave in Delft; Prof. Dr. A. Nemirovski visits Delft for two months as Stieltjes Professor.

4.2.7 Recent Presentations (since 1996)

1. *Linear, Discrete and Semidefinite Optimization*, Seminar VU. Amsterdam, March 26, 1996.
2. *Nieuwe ontwikkelingen in de lineaire optimalisering*, Statistische Dag VVS. Utrecht, April 3, 1996. (Plenary talk)
3. *Initialization in linear and semidefinite optimization via a self-dual embedding*, Workshop: Semidefinite Programming and Interior-Point Approaches for Combinatorial Optimization Problems. The Fields Institute, Toronto, Ontario, Canada, May 15-17, 1996.
4. *Method of approximate centers for semidefinite programming*, Workshop: Semidefinite Programming and Interior-Point Approaches for Combinatorial Optimization Problems. The Fields Institute, Toronto, Ontario, Canada, May 15-17, 1996.
5. *A New Algorithm for the Computation of the Smallest Eigenvalue of a Symmetric Matrix and its Eigenspace*, SIAM Conference on Optimization. Victoria, BC, Canada, May 20, 1996.
6. *Recent Developments in Linear, Discrete and Semidefinite Optimization*, Philips Nat. Lab.. Eindhoven, May 28, 1996.
7. *Recent Developments in Linear, Discrete and Semidefinite Optimization*, 8th French-German Conference on Optimization. Trier, July 21-26, 1996. (Plenary talk)
8. *A Simple Polynomial Algorithm for Linear Optimization Yielding an Exact Solution in Polynomial Time*, International Symposium on Optimization and Computation. The Graduate University for Advanced Studies, Shonan Village, Hayama, Kanagawa, Japan, August 12-16, 1996.

9. *Recent Developments in Linear, Discrete and Semidefinite Optimization*, Second Scandinavian Workshop on Linear Programming. Institute of Mathematical Modelling, Lyngby, Denmark, August 21-24, 1996. (Plenary talk)
10. *A simple interior-point method for linear optimization yielding an exact solution in polynomial time*, INFORMS meeting. Atlanta, November 3-6, 1996.
11. *Polynomial Affine Scaling Algorithms for $P_*(\kappa)$ Linear Complementarity Problems*, Optimization Symposium. Haifa, Israel, April 14-16, 1997.
12. *Recent Developments in Linear, Discrete and Semidefinite Optimization*, Combinatorial Theory Seminar. TU Eindhoven, May 14, 1997.
13. *Polynomial Interior-Point Algorithms for Linear Optimization*, International Workshop High Performance Optimization Techniques II. Rotterdam, The Netherlands, August 20-22, 1997.
14. *An exact polynomial-time solution method for the self-dual linear optimization problem*, International Symposium on Mathematical Programming. Lausanne, Switzerland, August 25-29, 1997.
15. *An exponential example for the least-index-pivot variant of the criss-cross method*, International Symposium on Mathematical Programming. Lausanne, Switzerland, August 25-29, 1997.
16. *Polynomial Affine Scaling Algorithms for $P_*(\kappa)$ Linear Complementarity Problems*, INFORMS meeting. Dallas, USA, October 26-29, 1997.
17. *Interior Point Methods for Linear, Semidefinite and Discrete Optimization*, Seminar Mathematisch Instituut, RU Leiden. Leiden, NL, January 6, 1998.
18. *High Performance Methods for Mathematical Optimization*, First HPMMO Seminar, TU Delft. Delft, NL, March 25, 1998.
19. *Another sandwich theorem*, Second HPMMO Seminar, TU Eindhoven. Eindhoven, NL, May 13, 1998.
20. *New Tools for the Analysis of the Primal-Dual Newton Method for Linear Optimization*, Workshop Interior-point Methods, Theory and Applications, University of Trier. Trier, Germany, July 7, 1998.
21. *Interior-Point Approach to Linear and Nonlinear Optimization Problems*, Wiskunde Seminarium. University of Utrecht, June 5, 1998.
22. *New Tools for the Analysis of the Primal-Dual Newton Method for Linear Optimization*, Workshop Interior-point Methods, Theory and Applications, University of Trier. Trier, Germany, July 7, 1998.
23. *New Tools for the Analysis of the Primal-Dual Newton Method for Linear Optimization*, EURO XVI. Brussels, July 15, 1998.
24. *Maximization of a Quadratic form over the Intersection of Ellipsoids with Common Center*, Third HPMMO seminar. EUR, Rotterdam, October 9, 1998.
25. *New Tools for the Analysis of the Primal-Dual Newton Method for Linear Optimization*, INFORMS Fall meeting. Seattle, Washington, USA, October 25-28, 1998.
26. *Another Primal-Dual Search Direction for Semidefinite Optimization*, DIMACS. Princeton, USA, January 7-9, 1999.
27. *A New Path-following Algorithm for Semidefinite Optimization*, XIV. Int. Conf. on Math. Progr.. Mátraháza, Hungary, March 27-31, 1999.
28. *A New Path-following Algorithm for Semidefinite Optimization*, 6th SIAM Conf. on Optimization. Atlanta, USA, May 8-10, 1999.
29. *A Polynomial-Time Algorithm for Semidefinite Optimization Based on a New Search Direction*, 19th IFIP TC7 Conference, System Modelling and Optimization. Cambridge, UK, July 12-16, 1999.
30. *A Scaled Gauss-Newton Primal-Dual Search Direction for Semidefinite Optimization*, Third Scandinavian Workshop on Linear Programming. Lyngby, Denmark, August 26-28, 1999.
31. *A Scaled Gauss-Newton Primal-Dual Search Direction for Semidefinite Optimization*, 6th HPMMO Workshop. TU Eindhoven, September 1, 1999.
32. *Interior-point Methods for Linear Optimization. PART I: Theory*, Annual Conference of Dutch and Belgian Numerical Analysts. Woudschoten, NL, October 6-8, 1999.

33. *A Strongly Polynomial Rounding Procedure Yielding a Maximally Complementary Solution for a Class of Linear Complementarity Problem*, First Workshop on Nonlinear Optimization: Interior-point and Filter Methods. Coimbra, Portugal, October 27–30, 1999.
34. *A Polynomial-time Algorithm for Semidefinite Optimization based on a Scaled Gauss-Newton Direction*, INFORMS Fall meeting. Philadelphia, USA, November 7–10, 1999.
35. *Sensitivity Analysis in Linear Programming: Just be Careful!*, University of Rome. Rome, Italy, November 22–23, 1999.
36. *Modelleren en Optimaliseren met Wiskunde. Beoefening van Wiskunde in het Spoor van Newton*, Inaugurale rede. Universiteit Leiden, December 10, 1999.
37. *A New Large-update Method for LO (and SDO)*, Conference on ‘Kontinuierliche Optimierung und Industrieanwendungen’. Mathematisches Forschungsinstitut, Oberwolfach, January 9–15, 2000.
38. *Current research in Delft*, 8th HPMMO Workshop. University of Utrecht, Utrecht, February 18, 2000.
39. *A New Large-update Method for LO (and SDO)*, 9th HPMMO Workshop. TU Delft, April 28, 2000.
40. *Convex quadratic approximations*, Seminar at McMaster University. Hamilton, Canada, May 5, 2000.
41. *A New Large-update Method for LO (and SDO)*, INFORMS Spring meeting. Salt Lake City, USA, May 8, 2000.
42. *A New Polynomial Large-update Primal-Dual Method for Linear and for Semidefinite Optimization*, ISPM 2000. Georgia Tech, Atlanta, USA, August 10, 2000.
43. *Proximity Functions for Linear and for Semidefinite Optimization*, OHTA 2000. Hong Kong, China, October 23 – 25, 2000.
44. *Superconvex barrier functions for LO and SDO*, Chinese University. Hong Kong, China, October 26, 2000.
45. *The scaled Gauss-Newton and the dual HKM Directions for SDO and their Implementation*, Seventh DIMACS Challenge Workshop. Rutgers University, Piscataway, USA, November 2 – 3, 2000.
46. *Proximity Functions for Linear and for Semidefinite Optimization*, INFORMS 2000 Fall Meeting. San Antonio, Texas, USA, November 5 – 8, 2000.
47. *Robust Convex Optimization with Application to Antenne Design and Truss Topology Design Problems*, Trinity University. San Antonio, Texas, USA, November 9, 2000.
48. *New Efficient Large-update Methods for Linear (and Semidefinite) Optimization*, OR seminar. KUB, Tilburg, NL, December 7, 2000.
49. *Maximization of a quadratic form over the intersection of ellipsoids with common center*, Workshop *Novel Approaches to Hard Discrete Optimization*. University of Waterloo, Waterloo, Canada, April 28, 2001.
50. *What is wrong with the logarithmic barrier function?*, Seminar. McMaster University, Hamilton, Canada, April 30, 2001.
51. *On the maximal step size in primal-dual interior-point methods*, Seminar. McMaster University, Hamilton, Canada, April 30, 2001.
52. *Recent Developments in Interior-Point Methods for Linear (and Semidefinite) Optimization*, HPOPT 2001. Utrecht University, Utrecht, NL, June 6, 2001.
53. *New Developments in Linear (and Semidefinite) Optimization*, Seminar. ITB, Bandung, Indonesia, June 18, 2001.
54. *New ‘Efficient’ Barrier Functions for Linear (and Semidefinite) Optimization*, Workshop: *Optimization And Control With Applications*. International School of Mathematics “G. Stampacchia”, Erice, Italy, July 9–17, 2001.
55. *New primal-dual interior-point methods for Linear (and Semidefinite) Optimization*, Workshop: *Smooth and Nonsmooth Optimization. Theory and Applications*. EXPO & Conference Center, EUR, Rotterdam, NL, July 12–13, 2001.
56. *New ‘Efficient’ Barrier Functions for Linear (and Semidefinite) Optimization*, INFORMS 2001 Fall Meeting. Miami, Florida, USA, November 3 – 7, 2001.

57. *Extended Matrix Cube theorems*, Seminar. McMaster University, Hamilton, Canada, November 9, 2001.
58. *Robust versions of convex quadratic and conic-quadratic problems, 5th International Conference on Optimization: Techniques and Applications*. Chinese University, Hong Kong, December 15-17, 2001. (ICOTA 2001 Best Theoretical Paper Award).
59. *New 'Efficient' Barrier Functions for Linear (and Semidefinite) Optimization*, Seminar. University of Nanjing, Nanjing, China, December 19, 2001.
60. *The Matrix Cube Theorem and Some Recent Extensions*, Seminar. Southeast University of China, Nanjing, China, December 21, 2001.
61. *Robust versions of convex quadratic and conic-quadratic problems*, Tagung 'Optimization and Applications'. Mathematisches Forschungsinstitut, Oberwolfach, January 13-18, 2002.
62. *Robust versions of convex quadratic and conic-quadratic problems*, Seminar. McMaster University, Hamilton, Canada, May 17, 2002.
63. *New Barrier Functions for Large-update Primal-dual Interior-point Methods*, 7th SIAM Conference on Optimization. Sheraton, Toronto, Canada, May 20-22, 2002.
64. *Robust Conic Optimization, with examples*, EPAM meeting. Sheraton, Bandung, Indonesia, July 1-4, 2002.
65. *Robust versions of convex quadratic and conic-quadratic problems*, Second Japanese-Sino Optimization Meeting (JSOM 2002). Kyoto, Japan, September 25-27, 2002.
66. *New Search Directions for Primal-dual Interior-point Methods*, Workshop on Linear, Nonlinear and Semidefinite Optimization. TIT, Tokyo, Japan, September 28, 2002.
67. *Robust truss topology design by means of cone optimization*, Symposium on Industrial Optimization. Perth, Australia, September 30 - October 2, 2002.
68. *New Search Directions for Primal-dual Interior-point Methods*, 9th Australian Optimisation Day. Perth, Australia, October 3, 2002.
69. *New search directions for primal-dual interior-point methods*, The First International Conference on Optimization Methods and Software. Hangzhou, China, December 15-18, 2002.
70. *Robust truss topology design by means of cone optimization*, International Conference on Mathematical Programming. New Campus of Shanghai University at Baoshan, Shanghai, China, December 19 - 22, 2002.
71. *What is special with the logarithmic barrier function in optimization?*, IMA. Minneapolis, USA, March 25, 2003.
72. *A 0.878-approximation algorithm for MAX CUT*, Nederlands Mathematisch Congres. Nijmegen, May 1-2, 2003.
73. *What is special with the logarithmic barrier function in optimization?*, UCL Seminar. CORE, Louvain-la-Neuve, Belgium, June 17, 2003.
74. *Robust Electrical Network Topology Design by Conic Optimization*, HPMO 13. KUB, Tilburg, June 23, 2003.
75. *What is special with the logarithmic barrier function in optimization?*, ISMP2003. Copenhagen, Denmark, August 18-22, 2003.
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77. *Robust Electrical Network Topology Design by Conic Optimization*, Georgia Tech Seminar. Atlanta, USA, October 24, 2003.
78. *From Linear to Conic Optimization*, Nederlands Mathematisch Congres. Tilburg, April 16-17, 2004.
79. *On search directions for primal-dual interior-point methods*, McMaster Optimization Day. McMaster University, Hamilton, Canada, May 10, 2004.
80. *From Linear Optimization to Conic Optimization*, Seminar. Dpt of Math, Universitas Padjadjaran, Bandung, Indonesia, August 21, 2004.
81. *Introduction to Conic Optimization and SeDuMi. In memory of Jos Sturm (1971 - 2003)*, OR2004. Tilburg, September 1-3, 2004.

82. *From Linear to Semidefinite Optimization (with some recent applications)*, Third IAMS-N Seminar. Delft, October 21, 2004.
83. *Introduction to Conic Optimization and some recent applications*, Third IAMS-N Seminar. Philips Nat. Lab., Eindhoven, December 8, 2004.
84. *Introduction to Conic Optimization and some recent applications*, VOCAL. University of Veszprem, Hungary, December 13-15, 2004.
85. *Full-Newton-Step Infeasible Interior-Point Algorithm for Linear Optimization*, Workshop Optimization and Applications. Mathematisches Forschungsinstitut Oberwolfach, Jan.10-15, 2005.
86. *Conic Optimization with some recent applications*, 35th Annual International Mathematical Conference. Shahid Chamran University, Ahwaz, Iran, Jan. 26-29, 2005.
87. *Interior-point methods based on kernel functions*, Seminar. University of Isfahan, Iran, Jan. 31, 2005.
88. *Kernel functions. A new paradigm for interior-point methods*, Seminar. University of Shiraz, Iran, Feb. 1, 2005.
89. *On the convergence of the central path in semidefinite optimization*, SIAM conference on Optimization. Stockholm, Sweden, May 16-19, 2005.
90. *Kernel functions. A new paradigm for interior-point methods*, Seminar. Southern Yangtze University, WuXi, China, June 15, 2005.
91. *On Delft University of Technology*, Seminar. Southern Yangtze University, WuXi, China, June 16, 2005.
92. *On the irony of interior-point methods*, Seminar. University of Shanghai, China, June 22, 2005.
93. *Cone optimization and some new applications*, ICAM05, International Conference on Applied Mathematics. ITB, Bandung, Indonesia, August 22 - 26, 2005.
94. *A Full-Newton-Step Infeasible Interior-Point Algorithm for Linear Optimization*, Optimization Seminar. TU Delft, Oct. 11, 2005.
95. *A Full-Newton-Step Infeasible Interior-Point Algorithm for Linear Optimization*, INFORMS Annual Meeting. San Francisco, Nov. 13-16, 2005.
96. *Introduction to Conic Optimization with some recent applications*, Seminar at Georgia Southern University. Statesboro, USA, Nov. 18, 2005.
97. *Full-Newton step polynomial-time methods for LO based on locally self-concordant barrier functions*, Seminar at Georgia Tech. Atlanta, USA, Nov. 21, 2005.
98. *A Full-Newton-Step Infeasible Interior-Point Algorithm for Linear Optimization*, Seminar at Chinese University of Hong Kong. Hong Kong, March 1, 2006.
99. *Full-Newton step polynomial-time methods for LO based on locally self-concordant barrier functions*, International Conference on Scientific Computing. Hanoi, Vietnam, March 6-10, 2006.
100. *Modeling Robust Design Problems via Conic Optimization*, High Performance Optimization Techniques Workshop. TU Delft, The Netherlands, June 15-17, 2006.
101. *A Full-Newton-Step Infeasible Interior-Point Algorithm for Linear Optimization*, Workshop on Advances in Continuous Optimization. Reykjavik, Iceland, June 30, 2006.
102. *Full-Newton step polynomial-time methods for LO based on locally self-concordant barrier functions*, International Symposium on Mathematical Programming. Rio De Janeiro, Brazil, July 30 - August 04, 2006.
103. *A Full-Newton-Step Infeasible Interior-Point Algorithm for Linear Optimization*, 37th Annual Iranian Mathematics Conference. Tabriz, Iran, September 2 - 5, 2006.
104. *Target-following methods. A new approach*, Seminar. University of Bergen, Norway, October 26, 2006.
105. *Introduction to Conic Optimization*, Seminar. University of Bergen, Norway, October 26, 2006.
106. *A Comparative Study of Kernel Functions for Primal-Dual Interior-Point Algorithms*, Veszprém Optimization Conference: Advanced Algorithms (VOCAL 2006). Regional Centre of the Hungarian Academy of Sciences. University of Pannonia, Hungary, December 13-15, 2006.
107. *Chaotic Behavior in Optimization*, Convex optimization and applications in control theory, probability and statistics. CIRM, Luminy, France, April 10 - 14, 2007.

108. *A Full-Newton-Step Infeasible Interior-Point Algorithm for Linear Optimization*, Workshop on Advances in Optimization. Celebration 60th birthday of Masakazu Kojima. Tokyo Institute of Technology, Tokyo, Japan, April 19 – 21, 2007.
109. *Topics in Conic Optimization*, Seminar. Shanghai University, Shanghai, China, April 27, 2007.
110. *A short introduction to Conic Optimization*, Seminar. Chinese University of Hong Kong, Hong Kong, China, May 8, 2007.
111. *Chaotic Behavior in Optimization*, Seminar. Shanghai University, Shanghai, China, May 11, 2007.
112. *Topics in Conic Optimization*, Seminar. Fudan University, Shanghai, China, May 11, 2007.
113. *Conic Optimization with some recent applications*, Seminar. YunNan University, Kunming, China, May 17, 2007.
114. *Chaotic Behavior in Optimization*, Joint EUROPT-OMS Meeting. Prague, Czech Republic, July 8, 2007.
115. *A short introduction to Conic Optimization*, EURO XXII. Prague, Czech Republic, July 9, 2007.
116. *A New Search Direction for Self-dual Conic Optimization*, ICCOPT II - MOPTA 2007. Mc Master University, Hamilton, Canada, August 12–17, 2007.
117. *Chaotic Behavior in Optimization*, 38th Annual Iranian Mathematical Conference. Zanjan, Iran, September 3 – 6, 2007.
118. *Computing safe dike heights at minimal costs*, Numerical Analysis and Optimization. Muscat, Sultanate of Oman, April 6–8, 2008.
119. *Computing safe dike heights at minimal costs*, SIAM Conference on Optimization. Boston Park Plaza Hotel, Boston, Massachusetts, May 10 – 13, 2008.
120. *Computing safe dike heights at minimal costs*, EURO Mini Conference. Continuous Optimization and Knowledge-Based Technologies. Neringa, Lithuania, May 20 – 23, 2008.
121. *Computing safe dike heights at minimal costs*, Seminar. University of Bergen, Bergen, Norway, May 29, 2008.
122. *Computing safe dike heights at minimal costs*, INFORMS 2008 Annual Meeting. Washington, DC, October 12-15, 2008.
123. *An MINLO model for optimizing dike-segment heights in the Netherlands*, Workshop Mixed Integer Nonlinear Optimization: Algorithmic Advances and Applications,. Institute for Mathematics and its Applications, November 17 – 21, 2008.
124. *Computing safe dike heights at minimal costs*, 4th International Conference on High Performance Scientific Computing. Hanoi, Vietnam, March 2 – 6, 2009.
125. *Mathematical analysis of the homogeneous dike height optimization problem*, Workshop Dike Height Optimization. Tilburg University, April 16, 2009.
126. *Computing safe dike heights at minimal costs*, International Conference on Nonlinear Analysis and Optimization (NAOP2009). University of Isfahan, Iran, May 13 – 15, 2009.
127. *Computing safe dike heights at minimal costs*, Mini-Workshop on Optimization and Applications in Engineering. K.N. Toosi University of Technology, Tehran, Iran, May 18, 2009.
128. *Full-Newton step polynomial-time methods for LO based on locally self-concordant barrier functions*, Mini-Workshop on Optimization and Applications in Engineering. K.N. Toosi University of Technology, Tehran, Iran, May 18, 2009.
129. *Computing safe dike heights at minimal costs*, Second International Conference of Iranian Operations Research Society. Mazandaran University, Babolsar, Iran, May 20 – 22, 2009.
130. *Conic optimization with some recent applications*, First Workshop of the Open Laboratory of Operations Research and Cybernetics. University of Shanghai, China, June 13, 2009.
131. *Full-Newton step polynomial-time methods for LO based on locally self-concordant barrier functions*, MOPTA 2009. Modelling and Optimization: Theory and Applications. LEHIGH University, Bethlehem, PA, USA, August 19 – 21, 2009.
132. *A Large-update Infeasible Interior-Point Algorithm for Linear Optimization*, 20th International Symposium of Mathematical Programming (ISMP). Marriott hotel, Chicago, Illinois, USA, August 23 – 28, 2009.

133. *Computing safe dike heights at minimal cost*, 20th International Symposium of Mathematical Programming (ISMP). Gleacher Center, Chicago, Illinois, USA, August 23 – 28, 2009.
134. *Computing safe dike heights at minimal cost*, Mathematical Programming seminar at CORE - ECORE. Louvain-la-Neuve, Belgium, October 30, 2009.
135. *Counter example to a conjecture on the homotopy path for infeasible interior-point methods*, INFORMS Annual meeting. San Diego, USA, October 12 – 14, 2009.
136. *Conic Optimization: a short introduction*, 3rd International Conference of Iranian Operations Research Society. Sharif University, Teheran, Iran, May 3, 2010.
137. *Redundant Klee-Minty models: a computational approach*, Mini-Workshop on Optimization and Applications in Engineering. K.N. Toosi University of Technology, Teheran, Iran, May 4, 2010.
138. *Conic Optimization: a short introduction*, 3rd International Conference of Iranian Operations Research Society. Amirkabir University of Technology, Teheran, Iran, May 5 – 6, 2010.
139. *Computing safe dike heights at minimal cost*, University of California at LA. Los Angeles, USA, October 15, 2009.
140. *Local self-concordance: a new paradigm for optimization?*, Fifth International Conference on Operations Research. Cadi Ayyad University, Marrakech, Morocco, May 24 - 27, 2010.
141. *Conic Optimization: a short introduction*, Seminar. University Mohammed V, Rabat, Morocco, May 27, 2010.
142. *Safe dike heights at minimal costs*, Operations Research for the Public Interest Conference. Stanford University, Stanford, USA, June 17 – 18, 2010.
143. *Full-Newton-step interior-point methods for linear optimization based on locally self-concordant barrier functions*, 8th EUROPT Workshop Advances in Continuous Optimization. Aveiro, Portugal, July 9 – 10, 2010.

5 Publications

5.1 Papers in refereed journals

5.1.1 Algebra

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- [2] G.J. Hauptfleisch and C. Roos. A note on the Morita equivalence of rings. *Tydskrif vir Natuurwetenskappe*, 16:56–59, 1976.
- [3] C. Roos. Ideals of matrixrings over nonassociative rings. *Acta Mathematica Academia Scientiarum Hungaricae*, 27:7–20, 1976.
- [4] L.C.A. van Leeuwen, C. Roos, and R. Wiegandt. Characterizations of semisimple classes. *Journal of the Australian Mathematical Society (Series A)*, 23:172–182, 1977.
- [5] G.A.P. Heyman and C. Roos. Essential extensions in radical theory of rings. *Journal of the Australian Mathematical Society (Series A)*, 23:340–347, 1977.
- [6] C. Roos. A class of regularities for rings. *Journal of the Australian Mathematical Society (Series A)*, 27:437–453, 1979.
- [7] G.J. Hauptfleisch and C. Roos. A characterization of weakly regular rings. *Studia Scientiarum Mathematicarum Hungaricae*, 16:381–384, 1981.
- [8] C. Roos and R. Wiegandt. On the radical theory of graded rings which are inversive hemirings. *Studia Scientiarum Mathematicarum Hungaricae*, 32:107–117, 1996.

5.1.2 Discrete Mathematics

- [1] C. Roos. On the structure of convolutional and cyclic convolutional codes. *IEEE Transactions on Information Theory*, IT-25:676–683, 1979.
- [2] C. Roos. On t -constant codes and designs. *IEEE Transactions on Information Theory*, IT-27:640–643, 1981.
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- [5] C. Roos. A generalization of the BCH bound for cyclic codes, including the Hartmann-Tzeng bound. *Journal of Combinatorial Theory (Series A)*, 33:229–232, 1982.
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- [7] C. Roos and M.J. Schoeman. Hoe foto’s van planete op die aarde kom. *Natuurwetenschap en Technologie*, 2:38–41, 1983.
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- [9] C. Roos and A.J. van Zanten. On the existence of certain generalized Moore geometries, Part I. *Discrete Mathematics*, 51:179–190, 1984.
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- [11] C. Roos and A.J. van Zanten. On the existence of certain generalized Moore geometries, Part II. *Discrete Mathematics*, 51:227–282, 1984.
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- [13] C. Roos, A.J. van Zanten, and M.J. Coster. On the existence of certain generalized Moore geometries, Part IV. *Discrete Mathematics*, 62:139–144, 1986.
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- [6] C. Roos. An exponential example for Terlaky’s pivoting rule for the criss–cross method. *Mathematical Programming*, 46:79–84, 1990.
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- [8] D. den Hertog, C. Roos, and T. Terlaky. A potential reduction variant of Renegar’s short–step path–following method for linear programming. *Linear Algebra and its Applications*, 152:43–69, 1991.
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5.7 Books

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- [6] C. Roos. *De tijd zal het leren*. Delft University of Technology, Delft, The Netherlands, 2003. Inaugural speech (in Dutch).
- [7] E. de Klerk, C. Roos, and T. Terlaky. *Nemlinearis Optimalizálás*, volume 6 of *Operációkutatás*. Aula Publishing, Budapest, 2004. Hungarian (English Title: Nonlinear Optimization).
- [8] Cornelis Roos, Tamás Terlaky, and Jean-Philippe Vial. *Interior point methods for linear optimization*. Springer, New York, 2006. Second edition of *Theory and algorithms for linear optimization* [Wiley, Chichester, 1997; MR1450094].

Appendix

A List of master degree students (since 1985)

	Year	Student	Title Master thesis	Company/Institute
1.	1985	W. VAN DER PLICHT	<i>Het 2-Machine Flow-Shop Pro-bleem met Omsteltijden</i>	CQM, Philips
2.	1986	A.J.M. BROUWER	<i>Een Statistisch en een Dynamisch LP Model voor een Personeelsplan-ningsprobleem bij de Koninklijke Landmacht</i>	FEL/TNO
3.	1986	N.C.J. GROENENBOOM	<i>Preplanning: The Generation of Replenishment Quantities in a vehi-cle Routing and Scheduling System</i>	Shell Research
4.	1987	O. ACHTERBERG	<i>Goed geroosterd zit je gebakken</i>	Rabobank
5.	1987	F. SCHOOF	<i>Beschrijving van een Methode ter Bepaling van het Optimale Aantal Tankwagens voor de KLM Tank-dienst (scriptie)</i>	KLM
6.	1987	R.J.A. ZEESTRATEN	<i>Two-dimensional Compaction</i>	Nat. Lab. Philips
7.	1988	G.H. VAN DEN BEUKEL	<i>Beschrijving van een Simu-latiemodel voor het Aanbod en de Afzet van Aardgas met Nadruk op het Ontwikkelde Rekenalgoritme</i>	MT/TNO
8.	1988	W. OSMAN	<i>Two-dimensional Compaction of Abstract Layouts with Statistical Cooling</i>	Nat. Lab. Philips
9.	1989	M. CLAESSENS	<i>De Bepaling van een Contour in Dijkzicht Linkerventrikelbeelden: Een Kort-ste Padprobleem (scriptie)</i>	
10.	1989	G.J. DE PENDER	<i>Optimaal Rioleren, een Vervolg-onderzoek naar het Automatisch Genereren van Riooltraceés</i>	Hollandse Wegenbouw Za- nen bv
11.	1989	DICK DEN HERTOOG	<i>Inwendige punt methoden voor lin-eaire programmering</i>	Intern, CL/UFD
12.	1990	R.W. VUYCK	<i>Optimalisering Beheer en Planning Centrale Helder Bier Bereiding</i>	Heineken
13.	1990	ERIC BOERSMA	<i>Gegeneraliserde netwerken</i>	Intern
14.	1990	HENK DE MAN	<i>The effect of centering in an interior point algorithm</i>	Intern
15.	1990	RENE QUALM	<i>Interior Point Methods and Integer Programming Problems</i>	Intern
16.	1991	HANLI LIEM	<i>Optimalisatie van het Transport en de Opslag in de Gist- en Lagerkelder van Heineken Brouw-erij Zoeterwoude</i>	Heineken
17.	1992	PATRICK VAN MOURIK	<i>EXTASE. Extra aflossen of sparen: Strategiebepaling bij een Spaarhy-potheek</i>	Intern
18.	1992	PETER BAAS	<i>Verkeersafwikkeling op Schiphol</i>	Schiphol
19.	1992	GIGI VAN RHEE	<i>Gate assignment</i>	Schiphol
20.	1993	FRED C.Q.A. DE VREEDE	<i>Indicators as stopping criteria in IPMs for LP</i>	Intern
21.	1993	WERNER VAN DER LELY	<i>BIN, a Binary Integer Program-ming Code using Interior Point Methods</i>	Intern

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23. 1993 JEROEN C. SMAKMAN *Optimization Algorithms for Complex River Basin Sysytems* Delft Hydraulics
24. 1993, UFD ASTRID WISSE *A New Approach to the Frequency Assignment Problem* PTT Research
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26. 1993 ERWIN VERVAART *An Optimization Problem in Magnetic Resonance Imaging* Philips Nat. Lab.
27. 1994 IRINE GAASBEEK *Robust Crude Supply Planning by means of Multi-Scenario Optimisation* KSLA, A'dam
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30. 1994 JAAP W.P. KARELSE *A decomposition approach to solving the refinery-wide optimising scheduling problem* KSLA, A'dam
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36. 1995 TONY VREDENBERG *Optimized Control of Multi Purpose Water Sysytems* Fac. CT, TUD
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39. 1995 SASCHA LANSER *Barrier Functions for Interior Point Methods for Nonlinear Programming and their Relation to the Characteristic Function* Intern, CL/UFD
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CL
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62. 2000 YVONNE WERTWIJN *Haalbaarheidsonderzoek, ten behoeve van het distributieprobleem van Brooklands Plus Products B.V.* Brooklands Plus Products B.V., Alphen aan de Rijn
63. 2002, BRAM VAN TIEL *The length restricted q reliable paths problem in international fixed telephony networks* PricewaterHouse Coopers, Amsterdam
01/11
64. 2003, GERDIEN KLUNDER *The auction algorithm compared with other algorithms for the shortest path problem* Connexxion
20/02,
CL
65. 2003, BERT QUAK *Bus line planning. A passenger oriented approach to the construction of a global line network and an efficient timetable.* Connexxion, CL/UFD
04/09
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03/07,
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31/10

68. 2003, 14/11 REMKO ZILLIG *Planning van bouwtechnische keuringen. Onderzoek naar de optimale planning van bouwtechnische keuringen bij bouwkundigen onder nevenvoorwaarden* VEH, Amersfoort
69. 2004, 23/01 MARISKA VAN STEIJN *Real Time Softkill Scheduling* FEL/TNO, Den Haag
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80. 30 aug. 2005, CL ERIC ZIJP *Simultaneous Scheduling of Vehicles and Crew Planning problems in public transit* Connexxion/FT
81. 11 mei 2006 YUKO KAWABATA *Containerstromen in de binnenvaart. Benadering van een netwerk van containerlijnen gebaseerd op vervoersvragen* TNO, Delft (HM)
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84. 28 sept., 2006 GEORGIOS SARIGIANNIDIS *Localization for Ad Hoc Wireless Sensor Networks* intern
85. 2006 ARJEN TJALLEMA *Dynamic positioning for FPSO* Maritieme Techniek
86. 8 juni, 2007 JANTIEN HARTOG *Schoolroosters* intern
87. 29 juni, 2007 ARJAN DE RIDDER *Robust Optimization of Portfolios* ABNAMRO
88. 26 juni, 2008 JOCHEN VERMEULEN *UPSILAMBDA. Solving polynomial systems using homotopy continuation methods* Tokyo (Kojima)
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