

Michael A. Saunders

Curriculum Vitae, September 5, 2018

Personal Data

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Internet: saunders@stanford.edu <http://stanford.edu/~saunders>
Birth: January 6, 1944, Christchurch, New Zealand

Education

1965 BSc (Hons), Mathematics, University of Canterbury, New Zealand
1970 MS, Computer Science, Stanford University
1972 PhD, Computer Science, Stanford University

Employment

1965–67 Scientific Officer, Applied Mathematics Division, Dept of Scientific and Industrial Research (DSIR), Wellington, New Zealand
1967–72 Research Assistant and Teaching Assistant, Computer Science Dept, Stanford University; Graduate Study Leave (part salary) from DSIR
1972–74 Scientific Officer, Applied Mathematics Division, DSIR, Wellington, New Zealand
1975–76 Research Associate, Systems Optimization Laboratory, Dept of Operations Research, Stanford University
1977–78 Scientist, Applied Mathematics Division, DSIR, Wellington, New Zealand
1979–87 Senior Research Associate, Systems Optimization Laboratory, Dept of Operations Research, Stanford University
1987–present Research Professor, Systems Optimization Laboratory, Depts of OR, EESOR, and Management Science and Engineering, Stanford University

Other Employment

1972 (Oct) Visiting Research Fellow, Division of Numerical Analysis and Computing, National Physical Laboratory, Teddington, England
1981 (May–Jun) Visiting Scholar, Dept of Mathematics, University of Linköping, Linköping, Sweden
1990 (Jul–Aug) Visiting Fellow, Dept of Operations Research, University of Canterbury, Christchurch, New Zealand
1995–96 Visiting Scholar, IBM Almaden Research Center (2 days/week)
1998 (Jul–Oct) Visiting Professor, Dept of Engineering Science, University of Auckland, New Zealand (taught Master's class on Nonlinear Optimization)
1999 (Aug) Visiting Professor, Institute of Mathematical Modelling (IMM), Technical University of Denmark, Lyngby, Denmark
2000 (Jul) Visiting Professor, Dept of Mathematics and Physics, Mälardalen University, Västerås, Sweden
2001 (Aug) Visiting Professor, IMM, Technical University of Denmark

Honors

1962–64 New Zealand University National Scholarship
1965 New Zealand University Senior Scholarship
1968–71 New Zealand University Postgraduate Scholarship
1967, 1972 US Fulbright Travel Grant
1985 William Orchard-Hays Prize in Computational Mathematical Programming, Mathematical Programming Society, first recipient

1988	Visiting Scientist, Special Year on Numerical Linear Algebra, University of Tennessee and Oak Ridge National Laboratory
1990	Erskine Visiting Fellowship, University of Canterbury, New Zealand
1997	Inventor Recognition Award, Office of Technology Licensing, Stanford University
2001	IBM Faculty Partnership Award
2004	Best Paper award (with M. P. Friedlander), ICCOPT 1, RPI, NY
2004	ISI Highly Cited Researcher, Computer Science
2005	First Prize in software section (with H. H. Jin , M. W. Carter, and Y. Ye) Stanford-Berkeley Innovators' Challenge
2007	ISI Highly Cited Researcher, Mathematics
2007	Elected Hon FRSNZ (Honorary Fellow of the Royal Society of New Zealand)
2012	SIAM Linear Algebra Prize (with S.-C. Choi and C. C. Paige), awarded three-yearly by the SIAM Activity Group on Linear Algebra
2012	Inducted into Stanford University Invention Hall of Fame (Optimization software, with Philip Gill, Walter Murray, Bruce Murtagh, and Margaret Wright)
2013	SIAM Fellow

Grants

Co-Principal Investigator with Walter Murray

1987–1989	AFOSR	Annual budget	\$ 50,000
1988–1991	DOE	Annual budget	\$316,000
1992–1995	DOE	Annual budget	\$ 75,000
1987–1998	NSF	Annual budget	\$100,000
2000–2002	NSF	Annual budget	\$150,000
2003–2006	NSF	Annual budget	\$172,000
1989–2001	ONR	Annual budget	\$150,000
2002–2004	ONR	Annual budget	\$163,000
2004–2007	ONR	Annual budget	\$170,000
2007–2010	ONR	Annual budget	\$180,000
2010–2013	ONR	Annual budget	\$200,000

Co-Principal Investigator with Stephen Boyd and David Donoho

1998–2000	NSF	Annual budget	\$133,000
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Co-Principal Investigator with Yinyu Ye

2009–2012	DOE	Annual budget	\$484,000	incl subcontracts to UCSD, Univ of Iceland
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Principal Investigator

2010–2011	NSF	Annual budget	\$114,000	
2012–2017	NIH	Annual budget	\$373,000	incl subcontract to UCSD
2013–2016	ARO	Annual budget	\$100,000	
2016–2017	FRIC	Annual budget	\$133,000	(Ford Research and Innovation Center)

2001	IBM Faculty Partnership Award, \$20,000
2001–2003	General Motors, Work Systems Lab, faculty participant
2004	Research Gift, Robert Bosch Corp, \$25,000
2005	Contract, Robert Bosch Corp, \$108,500
2005	Research Gift, COMSOL Inc, \$42,000
2005	Birdseed Funding, Stanford OTL, \$15,000
2008	Stanford/KAUST AEA Agreement, \$100,000
2008–2009	Member, Technical Area 4, AHPCRC, Stanford
2010–2012	Member, Technical Area 1, AHPCRC, Stanford

Professional Affiliations

ACM	Association for Computing Machinery
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INFORMS	Institute for Operations Research and the Management Sciences
MOS	Mathematical Optimization Society
NAG	Numerical Algorithms Group Limited
ORSNZ	Operational Research Society of New Zealand
SIAM	Society for Industrial and Applied Mathematics
SIAG	SIAM Activity Group on Optimization
SIGPLAN	ACM Fortran Forum

Professional Activities

1982–2004	Associate Editor, ACM TOMS (<i>ACM Transactions on Mathematical Software</i>)
1989–2002	Associate Editor, SIOPT (<i>SIAM Journal on Optimization</i>)
1999–present	Associate Editor, OPTE (<i>Optimization and Engineering</i>)
2002–2012	Member, International Scientific Advisory Board, NZIMA (New Zealand Institute of Mathematics and its Applications)
2010–2016	Associate Editor, NACO (<i>Numerical Algebra, Control and Optimization</i>)
2011–present	Advisory Council, LATNA, National Research University Higher School of Economics, Nizhny Novgorod, Russia
1980	Co-organizer, Conference on Practical Optimization, Stanford University
1988	Member, Orchard-Hays Prize committee, Mathematical Programming Society
1995	Proposal Review panelist, NSF DMII, Production Systems and OR
1999	Organizer, Minisymposium, SIAM Conference on Optimization, Atlanta
2000	Member, Beale/Orchard-Hays Prize committee, Math. Programming Society
2001	Member, Dantzig Dissertation Prize committee, INFORMS
2002	Proposal Review panelist, NSF DMII, Operations Research
2002	Organizer, Minisymposium, SIAM Conference on Optimization, Toronto
2005	Organizer, Minisymposium, IFORS Triennial Conference, Honolulu
2005	Member, Student Paper Competition committee, IMACS
2006	Organizer, Minisymposium, ISMP Triennial Symposium, Rio de Janeiro
2007	Co-organizer, Stanford 50: Conference on State of the Art and Future Directions of Computational Mathematics and Numerical Computing, Stanford University
2007	Organizer, Minisymposium, INFORMS Annual Meeting, Seattle
2008	Co-organizer, Symposium on Gene Golub's Legacy: Matrix Computations – Foundation and Future, Stanford University, Mar 1
2008	Technical program committee, MELT08, First ACM International workshop on Mobile Entity Localization and Tracking in GPS-less Environments, San Francisco
2009	Proposal Review panelist, NSF DMS, Numerical Linear Algebra and Optimization
2009	Cluster Chair, ISMP, Chicago
2009	Minisymposium Organizer, SIAM Conf on Applied Linear Algebra, Monterey
2012	Cluster Chair, ISMP, Berlin
2014	Co-organizer, BIRS Workshop on Sparse Representations, Numerical Linear Algebra, and Optimization, Banff

Referee for Journals, Publishers, Foundations, etc

ACM TOMS, Acta Numerica 2005, AFOSR, AOAS, APMOD, APNUM, Applied Numerical Mathematics, Bioinformatics, BIT Numerical Mathematics, BSF, CDC04, COAP, EPSRC (Britain), European J. of Operational Research, FCAR (Canadian Research Foundation), GRIS, HPSC, IEEE Signal Processing, IEEE TOIT, IJHPCA, IMA J. of Numerical Analysis, IJHPCA, IMACS student paper competition, Institute of Physics J. on Inverse Problems, International J. Mathematics in OR, International Science Foundation, Inverse Problems, Italian Research and University Evaluation Agency, J. of Combinatorial Optimization, J. of Comp. and Applied Mathematics, J. of Comp. and Graphical Statistics, J. of Global Optimization, J. of Industrial and Management Optimization, JMAA, JOSCO, JOTA, Johns Hopkins University Press, LAA, MELT08, MMOR, Mathematical Programming, MPC, Mathematics and Computers in Simulation, NAOIII, NAOIV, NSERC, NSF,

Numerical Algorithms, Numerische Mathematik, NZFRST, NZ J. of Mathematics, NZIMA, OMP, OMS, OPTE, ORSA J. on Computing, Parallel Processing Letters, PLOS ONE, PNAS, Research Grants Council, Hong Kong, RSNZ, SIAM, SIGPRO, SIMAX, SIOPT, SISC, Springer, Swedish Research Council for Eng. Sciences, VQR (Italy), Wiley & Sons

Consulting

1981–1986 General Electric
 1990–2011 Barra
 1989–2011 McDonnell-Douglas (then Boeing)
 2000–2011 DemandTec (Science Advisory Board)
 2007–present Cardinal Optimization Inc (Chief Scientist)
 2011–2013 ProPlus Design Solutions (Technical Advisory Board)
 2012–2013 Sodao Network Technology (Board)
 2013–present Wellong Logistics Company (Chief Scientist)
 2016–present Inovelli Inc (Chief Scientist)

Teaching

1997 EESOR 406 Colloquium, Winter and Spring
 EESOR 408 Tutorial (3 students)
 1998 EESOR 406 Colloquium, Winter
 EESOR 408 Tutorial (2 students)
 Master’s class, Nonlinear Optimization, Dept of Engineering Science, University of Auckland, New Zealand (12 students)
 1999 EESOR 406 Colloquium, Winter
 EESOR 408 Tutorial (1 student)
 2000 MS&E 406 Colloquium, Winter and Spring
 MS&E 408 Tutorial (1 student)
 1989–2001 SCCM Affiliated Faculty member
 2001–present SCCM Core Faculty member
 2004–present ICME Affiliated Faculty member
 2003–present MS&E 318 (CME 338) Large-scale Numerical Optimization
<http://stanford.edu/class/msande318>
 2001–2004 CS 531 Linear Algebra Seminar
 2005–present CME 510 Linear Algebra and Optimization Seminar
<http://icme.stanford.edu>
 2015 July Block course, Numerical Methods for Large-scale Optimization, USI Lugano
 2016 March Block course, Large-scale Optimization, USI Lugano

Graduate Advising

1987 Engineer, **R. Entriiken**
 1988 Engineer, **S. K. Eldersveld**
 1991 PhD co-principal advisor, **S. K. Eldersveld**
 2001 PhD co-principal advisor, **M. J. O’Sullivan**
 2002 PhD principal advisor, **M. P. Friedlander, B. Kim**
 2003 PhD co-principal advisor, **C.-M. Fransson**
 2005 PhD co-principal advisor, **Z. Su, H. H. Jin**
 2006 PhD principal advisor, **S.-C. Choi**
 2006 Postdoctoral advisor, **H. H. Jin**
 2008 PhD co-principal advisor, **C. Green**
 2008 PhD principal advisor, **H. M. Huynh**
 2009 PhD principal advisor, **D. F. Gleich, L. Tenenblat**
 2009–2011 Postdoctoral co-advisor, **D. Kourounis**
 2010 PhD principal advisor, **L. Deng, C. M. Maes**

2011	PhD principal advisor, D. C.-L. Fong
2014	PhD principal advisor, X. Meng
2015	PhD principal advisor, S. Akle, Y. Sun
2016	PhD principal advisor, J. Yang
2016	MS advisor, Y. Park
2017	MS advisor, S. Kim
2018	PhD coadvisor, X. Suo
Current	PhD principal advisor, D. Ma, R. Estrin
1981	PhD external examiner, J. Eriksson, Linköping University, Sweden
2000	PhD external examiner, M. Adlers, Linköping University, Sweden
1979–2016	PhD reading committee member, 88 students
1987–2018	PhD defense committee member, 178 students

Contributions to Books

- [B1] P. E. Gill, W. Murray, B. A. Murtagh, M. A. Saunders, and M. H. Wright, GAMS/MINOS, in A. Brooke, D. Kendrick, and A. Meeraus, *GAMS: A User's Guide*, The Scientific Press, Redwood City, CA, 201–224 (1988).
- [B2] P. E. Gill, W. Murray, M. A. Saunders, and M. H. Wright, Constrained nonlinear programming, in G. L. Nemhauser, A. H. G. Rinnooy Kan, and M. J. Todd (eds.), *Optimization*, Handbooks in Operations Research and Management Science, Volume 1, North-Holland, Amsterdam, 171–210 (1989).
- [B3] P. E. Gill, W. Murray, M. A. Saunders, and M. H. Wright, Some theoretical properties of an augmented Lagrangian merit function, in P. M. Pardalos (ed.), *Advances in Optimization and Parallel Computing*, North-Holland, Amsterdam, 101–128 (1992).
- [B4] M. A. Saunders, Cholesky-based methods for sparse least squares: The benefits of regularization, in L. Adams and J. L. Nazareth (eds.), *Linear and Nonlinear Conjugate Gradient-Related Methods*, SIAM, Philadelphia, 92–100 (1996).
- [B5] M. A. Saunders, Commentary on Methods for modifying matrix factorizations, in R. H. Chan, C. Greif, and D. P. O’Leary, *Milestones in Matrix Computation: Selected Works of Gene H. Golub, With Commentaries*, Oxford University Press, Oxford, 310–310 (2007).
- [B6] D. Ma and M. A. Saunders, Solving multiscale linear programs using the simplex method in quadruple precision, in M. Al-Baali, L. Grandinetti and A. Purnama (eds.), *Numerical Analysis and Optimization, NAO-III, Muscat, Oman, January 2014*, Springer Proceedings in Mathematics & Statistics, Volume 134, Springer International Publishing Switzerland (2015).
- [B7] P. E. Gill, M. A. Saunders, and E. Wong, On the performance of SQP methods for nonlinear optimization, in B. Defourny and T. Terlaky (eds.), *Modeling and Optimization: Theory and Applications, MOPTA, Bethlehem, PA, USA, August 2014*, Springer Proceedings in Mathematics & Statistics, Volume 147, Springer International Publishing AG (2015).
- [B8] D. Ma, K. L. Judd, D. Orban and M. A. Saunders, Stabilized optimization via an NCL algorithm, pp. 173–191 in M. Al-Baali et al. (eds.), *Numerical Analysis and Optimization, NAO-IV, Muscat, Oman, January 2017*, Springer Proceedings in Mathematics & Statistics, Volume 235, Springer International Publishing AG (2018).

Refereed Journal Articles

- [J1] P. E. Gill, G. H. Golub, W. Murray, and M. A. Saunders, Methods for modifying matrix factorizations, *Math. Comput.* 28, 505–535 (1974).
- [J2] P. E. Gill, W. Murray, and M. A. Saunders, Methods for computing and modifying the LDV factors of a matrix, *Math. Comput.* 29, 1051–1077 (1975).
- [J3] C. C. Paige and M. A. Saunders, Solution of sparse indefinite systems of linear equations, *SIAM J. Numer. Anal.* 12, 617–629 (1975).

- [J4] C. C. Paige and M. A. Saunders, Least squares estimation of discrete linear dynamic systems using orthogonal transformations, *SIAM J. Numer. Anal.* 14, 180–193 (1977).
- [J5] B. A. Murtagh and M. A. Saunders, Large-scale linearly constrained optimization, *Math. Program.* 14, 41–72 (1978).
- [J6] C. C. Paige and M. A. Saunders, Towards a generalized singular value decomposition, *SIAM J. Numer. Anal.* 18, 398–405 (1981).
- [J7] P. E. Gill, W. Murray, M. A. Saunders, and M. H. Wright, Aspects of mathematical modelling related to optimization, *Applied Mathematical Modelling* 5, 71–83 (1981).
- [J8] P. E. Gill, W. Murray, M. A. Saunders, and M. H. Wright, A note on a sufficient decrease criterion for a non-derivative steplength procedure, *Math. Program.* 23, 349–352 (1982).
- [J9] B. A. Murtagh and M. A. Saunders, A projected Lagrangian algorithm and its implementation for sparse nonlinear constraints, *Math. Program. Stud.* 16 (Constrained Optimization), 84–117 (1982).
- [J10] C. C. Paige and M. A. Saunders, LSQR: An algorithm for sparse linear equations and sparse least squares, *ACM Trans. Math. Softw.* 8(1), 43–71 (1982).
- [J11] C. C. Paige and M. A. Saunders, Algorithm 583; LSQR: Sparse linear equations and least-squares problems, *ACM Trans. Math. Softw.* 8(2), 195–209 (1982).
- [J12] P. E. Gill, W. Murray, M. A. Saunders, and M. H. Wright, Computing forward-difference intervals for numerical optimization, *SIAM J. Sci. Statist. Comput.* 4, 310–321 (1983).
- [J13] P. E. Gill, N. I. M. Gould, W. Murray, M. A. Saunders, and M. H. Wright, A weighted Gram-Schmidt method for convex quadratic programming, *Math. Program.* 30, 176–195 (1984).
- [J14] P. E. Gill, W. Murray, M. A. Saunders, and M. H. Wright, Sparse matrix methods in optimization, *SIAM J. Sci. Statist. Comput.* 5, 562–589 (1984).
- [J15] P. E. Gill, W. Murray, M. A. Saunders, and M. H. Wright, Procedures for optimization problems with a mixture of bounds and general constraints, *ACM Trans. Math. Softw.* 10, 282–298 (1984).
- [J16] P. E. Gill, W. Murray, M. A. Saunders, and M. H. Wright, Trends in nonlinear programming software, *European J. of Operational Research* 17, 141–149 (1984).
- [J17] S. M. Gorelick, C. I. Voss, P. E. Gill, W. Murray, M. A. Saunders, and M. H. Wright, Aquifer reclamation design: the use of contaminant transport simulation combined with nonlinear programming, *Water Resources Research* 20, 415–427 (1984).
- [J18] P. E. Gill, W. Murray, M. A. Saunders, G. W. Stewart, and M. H. Wright, Properties of a representation of a basis for the null space, *Math. Program.* 33, 172–186 (1985).
- [J19] P. E. Gill, W. Murray, M. A. Saunders, J. A. Tomlin, and M. H. Wright, On projected Newton barrier methods for linear programming and an equivalence to Karmarkar’s projective method, *Math. Program.* 36, 183–209 (1986).
- [J20] P. E. Gill, W. Murray, M. A. Saunders, and M. H. Wright, Maintaining LU factors of a general sparse matrix, *Linear Algebra Appl.* 88/89, 239–270 (1987).
- [J21] M. A. Saunders, H. D. Simon, and E. L. Yip, Two conjugate-gradient-type methods for unsymmetric linear equations, *SIAM J. Numer. Anal.* 25, 927–940 (1988).
- [J22] P. E. Gill, W. Murray, M. A. Saunders, and M. H. Wright, Recent developments in constrained optimization, *J. Computational and Applied Mathematics* 22, 257–270 (1988).
- [J23] P. E. Gill, W. Murray, M. A. Saunders, and M. H. Wright, A practical anti-cycling procedure for linearly constrained optimization, *Math. Program.* 45, 437–474 (1989).
- [J24] P. E. Gill, W. Murray, M. A. Saunders, and M. H. Wright, Inertia-controlling methods for general quadratic programming, *SIAM Rev.* 33, 1–36 (1991).
- [J25] F. Jarre and M. A. Saunders, An adaptive primal-dual method for linear programming, *Math. Prog. Soc., Committee on Algorithms Newsletter* 19, 7–16 (1991).

- [J26] **S. K. Eldersveld** and M. A. Saunders, A block-LU update for large-scale linear programming, *SIAM J. Matrix Anal. Appl.* 13, 191–201 (1992).
- [J27] P. E. Gill, W. Murray, D. B. Ponceleón and M. A. Saunders, Preconditioners for indefinite systems arising in optimization, *SIAM J. Matrix Anal. Appl.* 13, 292–311 (1992).
- [J28] M. A. Saunders, Major Cholesky would feel proud, *ORSA J. Comput.* 6, 23–27 (1994).
- [J29] H.-D. Chen, P. M. Pardalos, and M. A. Saunders, The simplex algorithm with a new primal and dual pivot rule, *Oper. Res. Lett.* 16, 121–127 (1994).
- [J30] F. Jarre and M. A. Saunders, A practical interior-point method for convex programming, *SIAM J. Optim.* 5, 149–171 (1995).
- [J31] J. W. Chinneck and M. A. Saunders, MINOS(IIS) version 4.2: Analyzing infeasibilities in linear programming, *Eur. J. Oper. Res.* 81, 217–218 (1995).
- [J32] P. E. Gill, W. Murray, D. B. Ponceleón, and M. A. Saunders, Primal-dual methods for linear programming, *Math. Program.* 70, 251–277 (1995).
- [J33] M. A. Saunders, Solution of sparse rectangular systems using LSQR and CRAIG, *BIT Numerical Mathematics* 35, 588–604 (1995).
- [J34] P. E. Gill, M. A. Saunders, and J. R. Shinnerl, On the stability of Cholesky factorization for quasi-definite systems, *SIAM J. Matrix Anal. Appl.* 17(1), 35–46 (1996).
- [J35] M. A. Saunders, Computing projections with LSQR, *BIT Numerical Mathematics* 37:1, 96–104 (1997).
- [J36] W. R. Purcell, L.-X. Cheng, D. D. Dixon, R. L. Kinzer, J. D. Kurfess, M. Leventhal, M. A. Saunders, J. G. Skibo, D. M. Smith, and J. Tueller, OSSE mapping of galactic 511 keV positron annihilation line emission, *Astrophysical J.* 491, 725–776, Dec. 1997.
- [J37] S. S. Chen, D. L. Donoho, and M. A. Saunders, Atomic decomposition by basis pursuit, *SIAM J. Sci. Comput.* 20(1), 33–61 (1998).
- [J38] S. S. Chen, D. L. Donoho, and M. A. Saunders, Atomic decomposition by basis pursuit, SIGEST article, *SIAM Rev.* 43(1), 129–159 (2001).
- [J39] P. E. Gill, W. Murray, and M. A. Saunders, SNOPT: An SQP algorithm for large-scale constrained optimization, *SIAM J. Optim.* 12(4), 979–1006 (2002).
- [J40] M. Jacobsen, P. C. Hansen, and M. A. Saunders, Subspace preconditioned LSQR for discrete ill-posed problems, *BIT Numerical Mathematics* 43:5, 975–989 (2003).
- [J41] **M. P. Friedlander** and M. A. Saunders, A globally convergent linearly constrained Lagrangian method for nonlinear optimization, *SIAM J. Optim.* 15(3), 863–897 (2005).
- [J42] R. Tibshirani, M. Saunders, S. Rosset, J. Zhu, and K. Knight, Sparsity and smoothness via the fused lasso, *J. Royal Statistical Society B* 67(1), 91–108 (2005).
- [J43] P. E. Gill, W. Murray, and M. A. Saunders, SNOPT: An SQP algorithm for large-scale constrained optimization, SIGEST article, *SIAM Rev.* 47(1), 99–131 (2005).
- [J44] M. W. Carter, **H. H. Jin**, M. A. Saunders, and Y. Ye, SpaseLoc: An adaptive subproblem algorithm for scalable wireless sensor network localization, *SIAM J. Optim.* 17(4), 1102–1128 (2006).
- [J45] **M. P. Friedlander** and M. A. Saunders, Discussion: The Dantzig selector: Statistical estimation when p is much larger than n , *Annals of Statistics* 35(6), 2385–2391 (2007).
- [J46] P. E. Gill, W. Murray, M. A. Saunders, J. A. Tomlin, and M. H. Wright, George B. Dantzig and systems optimization, *J. Discrete Optimization* 5(2), 151–158 (2008), in memory of George B. Dantzig. <http://dx.doi.org/10.1016/j.disopt.2007.01.002>.
- [J47] G. Chantas, N. Galatsanos, A. Likas, and M. A. Saunders, Variational Bayesian image restoration based on a product of t -distributions image prior, *IEEE Trans. Image Processing* 17(10), 1795–1805 (2008).

- [J48] **C.-M. Fransson**, T. Wik, B. Lennartson, M. A. Saunders, and P.-O. Gutman, Nonconservative robust control: Optimized and constrained sensitivity functions, *IEEE Trans. Contr. Sys. Tech.* 17(2), 298–308 (2009).
- [J49] **M. J. O’Sullivan** and M. A. Saunders, Stabilizing policy improvement for large-scale infinite-horizon dynamic programming, *SIAM J. Matrix Anal. Appl.* 31:2, 434–459 (2009).
- [J50] V. Pereyra, M. A. Saunders, and J. Castillo, Equispaced Pareto front construction for constrained bi-objective optimization, *Mathematical and Computer Modelling* (2011), doi: 10.1016/j.mcm.2010.12.044, 10 pp.
- [J51] **S.-C. Choi**, C. C. Paige, and M. A. Saunders, MINRES-QLP: a Krylov subspace method for indefinite or singular symmetric systems, *SIAM J. Sci. Comput.* 33:4 (2011) 1810–1836. (2012 Linear Algebra Prize, SIAM Activity Group on Linear Algebra.)
- [J52] **D. C.-L. Fong** and M. A. Saunders, LSMR: An iterative algorithm for sparse least-squares problems, *SIAM J. Sci. Comput.* 33:5 (2011) 2950–2971, Copper Mountain Special Issue 2010.
- [J53] R. M. T. Fleming, **C. M. Maes**, M. A. Saunders, Y. Ye, and B. Ø. Palsson, A variational principle for computing nonequilibrium fluxes and potentials in genome-scale biochemical networks, *J. Theoretical Biology* 292 (2012) 71–77.
- [J54] S. P. Ponnappalli, M. A. Saunders, C. F. Van Loan, and O. Alter, A higher-order generalized singular value decomposition for comparison of global mRNA expression from multiple organisms, *PLoS ONE* 6(12): e28072 (2011). doi:10.1371/journal.pone.0028072, 11 pp.
- [J55] **D. C.-L. Fong** and M. A. Saunders, CG versus MINRES: An empirical comparison, *SQU Journal for Science* 17:1 (2012) 44–62.
- [J56] P. Berman, A. Leshem, O. Etziony, O. Levi, Y. Parmet, M. Saunders, and Z. Wiesman, Novel 1H low field nuclear magnetic resonance applications for the field of biodiesel, *Biotechnology for Biofuels* 6:55 (2013) 20 pp.
- [J57] P. Berman, O. Levi, Y. Parmet, M. Saunders, and Z. Wiesman, Laplace inversion of low-resolution NMR relaxometry data using sparse representation methods, *Concepts in Magnetic Resonance Part A* 42A:3 (2013) 72–88.
- [J58] **Y. Sun**, R. M. T. Fleming, I. Thiele, and M. A. Saunders, Robust flux balance analysis of multiscale biochemical reaction networks, *BMC Bioinformatics* 14:240, 2013, 6 pp.
- [J59] **S.-C. Choi** and M. A. Saunders, Algorithm 937: MINRES-QLP for symmetric and Hermitian linear equations and least-squares problems, *ACM Trans. Math. Softw.* 40(2), Article 16, Feb 2014, 12 pp.
- [J60] **X. Meng**, M. A. Saunders, and M. W. Mahoney, LSRN: a parallel iterative solver for strongly over- or underdetermined systems, *SIAM J. Sci. Comput.* 36:2 (2014) C95–C118.
- [J61] J. D. Lee, **Y. Sun**, and M. A. Saunders, Proximal Newton-type methods for minimizing composite functions, *SIAM J. Optim.* 24:3 (2014) 1420–1443.
- [J62] Y. Choi, C. Farhat, W. Murray, and M. Saunders, A practical factorization of a Schur complement for PDE-constrained distributed optimal control, *J. Sci. Comput.* 2014, DOI 10.1007/s10915-014-9976-0.
- [J63] P. Berman, N. Meiri, L. A. Colnago, T. B. Moraes, C. Linder, O. Levi, Y. Parmet, M. Saunders, and Z. Wiesman, Study of liquid-phase molecular packing interactions and morphology of fatty acid methyl esters (biodiesel), *Biotechnology for Biofuels* 8:12 (2015), DOI 10.1186/s13068-014-0194-7, 16 pp.
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- [P2] Plenary speaker, “Least Squares Methods: Theory, Algorithms and Applications”, International conference in celebration of Åke Björck’s 60th Birthday, Linköping University, Sweden, Jan 9–10, 1995.

- [P3] Distinguished lecturer, Mathematics Dept, University of California, San Diego, La Jolla, CA, Mar 6–10, 1995.
- [P4] Plenary speaker, Householder Symposium XIII, Pontresina, Switzerland, Jun 17–21, 1996.
- [P5] Keynote speaker, 33rd Annual Conference, Operational Research Society of New Zealand, Auckland, New Zealand, Aug 31–Sep 1, 1998.
- [P6] Keynote speaker, Symposium on Optimisation and Data Analysis in honor of Michael Osborne’s 70th birthday, Canberra, ACT, Australia, Sep 21–23, 2005.
- [P7] Plenary speaker, MOPTA 06: Modeling and Optimization: Theory and Applications, University of Waterloo, Waterloo, ON, Canada, Jul 24–27, 2006.
- [P8] Dash Optimization lecturer, Center for Applied Optimization, University of Florida, Gainesville, FL, Feb 15, 2007.
- [P9] PIMS distinguished speaker, Computer Science Dept, University of British Columbia, Canada, Aug 7, 2008.
- [P10] Plenary speaker (with **C. M. Maes**), Advanced methods and perspectives in nonlinear optimization and control, RTRA STAE Workshop, Toulouse, France, Feb 3–5, 2010.
- [P11] Plenary speaker (with **D. C.-L. Fong**), 2nd International Conference on Numerical Linear Algebra and Optimisation, University of Birmingham, UK, Sep 13–15, 2010.
- [P12] Keynote speaker (with **C. M. Maes**), OPTEC Workshop on Large-Scale Convex Quadratic Programming — Algorithms, Software, and Applications, Katholieke Universiteit Leuven, Leuven, Belgium, Nov 25–26, 2010.
- [P13] Plenary speaker (with **D. C.-L. Fong**), Second International Conference on Numerical Analysis and Optimization, Sultan Qaboos University, Muscat, Oman, Jan 3–6, 2011.
- [P14] Keynote speaker, Workshop on Computational Linear Algebra and Optimization for the Digital Economy, ICMS, Edinburgh, UK, Oct 31–Nov 1, 2013.
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- [P16] 1st Fletcher-Powell lecture, 26th Biennial Numerical Analysis Conference, University of Strathclyde, Glasgow, Jun 23–26, 2015.
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- [I1] Invited speaker, 14th International Symposium on Mathematical Programming, Amsterdam, The Netherlands, Aug 5–9, 1991.
- [I2] Speaker and session organizer, TIMS/ORSA Joint National Meeting, San Francisco, California, Nov 2–4, 1992.
- [I3] Invited speaker, Conference on Large-Scale Optimization, University of Florida, Gainesville, FL, Feb 15–17, 1993.
- [I4] Invited speaker, The RAND Corporation, Santa Monica, California, Apr 29, 1993.
- [I5] Invited speaker, Workshop on Operations Research for Managers, Stanford University, Sep 9–11, 1993.
- [I6] Colloquium speaker, Dept of Operations Research, Stanford University, Nov 17, 1993.
- [I7] Minisymposium speaker, Cornelius Lanczos International Centenary Conference, University of North Carolina, Raleigh, North Carolina, Dec 12–17, 1993.
- [I8] Invited speaker, Sparse Days at St Girons, International meeting on Sparse Matrix Methods, St Girons, France, Jul 10–16, 1994.

- [I9] Invited speaker and session organizer, 15th International Symposium on Mathematical Programming, Ann Arbor, Michigan, Aug 15–19, 1994.
- [I10] Speaker, Tenth Annual Operations Research Symposium for Industrial Affiliates and Corporate Friends, Dept of Operations Research, Stanford University, Jan 30, 1995.
- [I11] Distinguished lecturer, Mathematics Dept, University of California, San Diego, La Jolla, CA, Mar 6–10, 1995.
- [I12] Invited speaker, AMS-IMS-SIAM Summer Research Conference on Linear and Nonlinear Conjugate Gradient-Related Methods, University of Washington, Seattle, Jul 9–13, 1995.
- [I13] Speaker, 32nd Australasian Applied Mathematics Conference, Masterton, New Zealand, Feb 4–8, 1996.
- [I14] Minisymposium speaker, 5th SIAM Conference on Optimization, Victoria, BC, May 20–22, 1996.
- [I15] Invited speaker, International Symposium on Optimization and Computation, Hayama, Kanagawa, Japan, Aug 12–16, 1996.
- [I16] Colloquium speaker, Dept of EESOR, Stanford University, Jan 15, 1997.
- [I17] Invited speaker, WSC97-HK, Workshop on Scientific Computing, Chinese University of Hong Kong, Mar 10–12, 1997.
- [I18] Invited speaker, Post-conference of WSC97-HK, Chinese Academy of Sciences, Beijing, Mar 14, 1997.
- [I19] Invited speaker (with P. E. Gill), 16th International Symposium on Mathematical Programming, Lausanne, Switzerland, Aug 24–29, 1997.
- [I20] Colloquium speaker (with W. Murray), Dept of EESOR, Stanford University, Oct 14, 1997.
- [I21] Colloquium speaker, Mathematics Dept, University of Waterloo, Canada, Apr 22, 1998.
- [I22] Invited speaker, 3rd International Conference on High Performance Optimization Techniques, Rotterdam, The Netherlands, Jun 17–19, 1998.
- [I23] Invited speaker, 8th Stockholm Optimization Days, KTH, Stockholm, Sweden, Jun 25–26, 1998.
- [I24] Colloquium speaker, Applied Computational and Industrial Mathematics Seminar, Dept of Mathematics, University of Auckland, New Zealand, Oct 7, 1998.
- [I25] Seminar speaker, Courant Institute, New York University, Mar 12, 1999.
- [I26] Colloquium speaker, Dept of EESOR, Stanford University, Apr 21, 1999.
- [I27] Seminar speaker, Dept of Mathematics, Linköping University, Sweden, Aug 17, 1999.
- [I28] Seminar speaker, Center for Mathematical Modeling, Mälardalen University, Sweden, Aug 20, 1999.
- [I29] Invited speaker, Third Scandinavian Workshop on Linear Programming, Danish Technical University, Lyngby, Aug 26–28, 1999.
- [I30] Colloquium speaker, NERSC, Lawrence Berkeley Laboratory, Berkeley, CA, Oct 29, 1999.
- [I31] Invited speaker, Pacific-West Algorithmic Science Meeting, Washington State University, Pullman, WA, Apr 8, 2000.
- [I32] Invited speaker (with **M. P. Friedlander**), 17th International Symposium on Mathematical Programming, Atlanta, GA, Aug 6–11, 2000.
- [I33] Minisymposium talk (with **M. P. Friedlander**), SIAM Conference on Optimization, Toronto, Canada, May 20–22, 2002.
- [I34] Minisymposium speaker (with **M. J. O’Sullivan**), SIAM Conference on Optimization, Toronto, Canada, May 20–22, 2002.
- [I35] Invited speaker (with **M. J. O’Sullivan**), Householder Symposium XV on Numerical Linear Algebra, Peebles, Scotland, Jun 17–21, 2002.

- [I36] Invited speaker (with Y. Sun and G. H. Golub), Conference on Sparse Matrices and Grid Computing, St Giron, France, Jun 10–13, 2003.
- [I37] Invited paper (with **M. P. Friedlander**), 18th International Symposium on Mathematical Programming, Copenhagen, Denmark, Aug 18–22, 2003.
- [I38] Invited speaker, Sandia CSRI workshop on Solution Methods for Saddle Point Systems in Computational Mechanics, Santa Fe, NM, Dec 3–6, 2003.
- [I39] Invited speaker (with **M. P. Friedlander**), International Conference on Continuous Optimization (ICCOPT 1), RPI, Troy, NY, Aug 2–4, 2004.
- [I40] Invited speaker, Optimization and Transportation Scheduling Workshop, Mount Ruapehu, New Zealand, Sep 8–10, 2004.
- [I41] Invited speaker, Workshop on Optimization and Applications, Oberwolfach, Germany, Jan 9–15, 2005.
- [I42] Invited speaker (with **M. P. Friedlander**), SIAM Conference on Optimization, Stockholm, Sweden, May 15–19, 2005.
- [I43] Invited paper (with U. Ringertz and P. E. Gill), SIAM Conference on Optimization, Stockholm, Sweden, May 15–19, 2005.
- [I44] Invited speaker (with **M. J. O’Sullivan**), IFORS Triennial Conference, Honolulu, HI, Jul 11–15, 2005.
- [I45] Invited paper (with **H. H. Jin** and M. W. Carter), IFORS Triennial Conference, Honolulu, HI, Jul 11–15, 2005.
- [I46] Seminar speaker, Linear Algebra/Optimization seminar, SCCM, Stanford University, Feb 8, 2006.
- [I47] Invited speaker (with **H. M. Huynh**), SIAM Conference on Parallel Processing for Scientific Computing, San Francisco, CA, Feb 22–24, 2006.
- [I48] Invited speaker, Sparse Days at CERFACS, Toulouse, France, Jun 15–16, 2006.
- [I49] Invited speaker (with **H. M. Huynh**), 19th International Symposium on Mathematical Programming, Rio de Janeiro, Brazil, Jul 30–Aug 4, 2006.
- [I50] Invited paper (with **H. H. Jin**), 19th International Symposium on Mathematical Programming, Rio de Janeiro, Brazil, Jul 30–Aug 4, 2006.
- [I51] Invited paper (with **L. Tenenblat**), 19th International Symposium on Mathematical Programming, Rio de Janeiro, Brazil, Jul 30–Aug 4, 2006.
- [I52] ICME seminar speaker, Stanford University, Oct 23, 2006.
- [I53] Invited speaker (with **L. Tenenblat**), INFORMS Annual Meeting, Pittsburgh, PA, Nov 5–8, 2006.
- [I54] Seminar speaker, Numerical Analysis History @ Stanford series, SCCM, Stanford University, Mar 14, 2007.
- [I55] Invited speaker (with **M. P. Friedlander**), West Coast Optimization meeting, University of Washington, Apr 28–29, 2007.
- [I56] Invited speaker (with **S.-C. Choi**), ICIAM 07, 6th International Congress on Industrial and Applied Mathematics, Zurich, Switzerland, Jul 16–20, 2007.
- [I57] Linear Algebra and Optimization seminar speaker, ICME, Stanford University, Oct 3, 2007.
- [I58] Linear Algebra seminar speaker, Mathematics Dept, University of California, Berkeley, Oct 31, 2007.
- [I59] Linear Algebra and Optimization seminar speaker, ICME, Stanford University, Jan 23, 2008.
- [I60] Invited speaker, Symposium on Gene Golub’s Legacy: Matrix Computations – Foundation and Future, Stanford University, Mar 1, 2008.
- [I61] Optimization seminar speaker, IWR, University of Heidelberg, Germany, Jun 12, 2008.

- [I62] Invited presentation (with **H. H. Jin**), MMDS08: Workshop on Algorithms for Modern Massive Data Sets, Stanford University, Jun 25–28, 2008.
- [I63] Minisymposium speaker (with **H. H. Jin**), SIAM Annual Meeting, San Diego, Jul 7–11, 2008.
- [I64] Seminar speaker, School of Computer Science, McGill University, Canada, Nov 14, 2008.
- [I65] Seminar speaker, School of Computer Science, McGill University, Canada, Nov 17, 2008.
- [I66] Invited presentation (with **C. M. Maes**), BIRS Workshop 09w5101, Advances and Perspectives on Numerical Methods for Saddle Point Problems, Banff, Alberta, Canada, Apr 12–17, 2009.
- [I67] Invited presentation, Sparse Matrices for Scientific Computation: In Honour of John Reid’s 70th Birthday, Abingdon, Oxfordshire, UK, Jul 15–16, 2009.
- [I68] Seminar speaker, Dept of Computer Science, Katholieke Universiteit Leuven, Leuven, Belgium, Jul 22, 2009.
- [I69] Invited presentation (with J. Tomlin and V. Bharadwaj), 2009 INFORMS Annual Meeting, San Diego, CA, Oct 11–14, 2009.
- [I70] Invited presentation (with **C. M. Maes**), 2009 SIAM Conference on Applied Linear Algebra, Monterey, CA, Oct 26–29, 2009.
- [I71] Mathematics and Systems Biology seminar, University of Iceland, Reykjavik, Iceland, Oct 4, 2010.
- [I72] Seminar (with **D. C.-L. Fong**), Delft Institute of Applied Mathematics, Delft, The Netherlands, Nov 29, 2010.
- [I73] Seminar (with **D. C.-L. Fong**), Applied Analysis and Computational Science (AACCS), University of Twente, Enschede, The Netherlands, Dec 2, 2010.
- [I74] Industrial Engineering and Management Seminar, Ben Gurion University of the Negev, Israel, Jan 10, 2011.
- [I75] Optimization Day, Mechanical Engineering Affiliates and Sponsors Program, Stanford University, Feb 1, 2011.
- [I76] Invited speaker (with I. Thiele, R. M. T. Fleming, B. Ø. Palsson, Y. Ye, S. Akle, O. A. Dalal, J. A. Lerman, Y. Sun, and N. A. Taheri), DOE Genomic Science Awardee Meeting IX, Crystal City, VA, Apr 10–13, 2011.
- [I77] Invited poster presentation (with **D. C.-L. Fong** and P. C. Hansen), Householder Symposium XVIII on Numerical Linear Algebra, Tahoe City, CA, Jun 12–17, 2011.
- [I78] Invited presentation (with **D. C.-L. Fong**), Householder Symposium XVIII on Numerical Linear Algebra, Tahoe City, CA, Jun 12–17, 2011.
- [I79] Invited presentation (with **C. M. Maes**), Householder Symposium XVIII on Numerical Linear Algebra, Tahoe City, CA, Jun 12–17, 2011.
- [I80] Invited presentation (with **D. C.-L. Fong**), ICIAM 7, Vancouver, BC, Jul 18–22, 2011.
- [I81] Invited presentation (with **C. M. Maes**), ICIAM 7, Vancouver, BC, Jul 18–22, 2011.
- [I82] Seminar (with **D. C.-L. Fong**), Max-Planck-Institut für Dynamik komplexer technischer Systeme, Magdeburg, Germany, Jan 12, 2012.
- [I83] Seminar (with **D. C.-L. Fong**), Dept of Mathematics, Philipps-Universität Marburg, Germany, Jan 17, 2012.
- [I84] Invited presentation, Workshop on Matrix Computations in Memory of Professor Gene Golub, ICM, Hong Kong Baptist University, Feb 29, 2012.
- [I85] Invited presentation (with **S. Akle**), 12th Copper Mountain Conference on Iterative Methods, Copper Mountain, CO, Mar 25–30, 2012.
- [I86] ICME Colloquium, ICME, Stanford University, Apr 16, 2012.
- [I87] Linear Algebra Prize presentation (with **S.-C. Choi** and C. C. Paige), SIAM Conference on Applied Linear Algebra, Valencia, Spain, Jun 18–22, 2012.

- [I88] Invited presentation (with **C. M. Maes**), 21st International Symposium on Mathematical Programming, Berlin, Germany, Aug 19–24, 2012.
- [I89] Seminar on Optimization, Dept of Mathematics, Linköping University, Sweden, Aug 30, 2012.
- [I90] Invited presentation, 40 Years of Forrest and Tomlin, INFORMS, Phoenix, AZ, Oct 14–17, 2012.
- [I91] Invited presentation, Workshop on Sparse Representation of Functions: Analytic and Computational Aspects, TU Berlin and Matheon, Berlin, Germany, Dec 10–14, 2012.
- [I92] Institutskolloquium, Institute of Mathematics, Universität Kassel, Germany, Dec 17, 2012.
- [I93] Seminar, Dept of Mathematics, Virginia Tech, Blacksburg, VA, Mar 22, 2013.
- [I94] Invited presentation, Conference on New Frontiers in Numerical Analysis and Scientific Computing, on the occasion of Lothar Reichel’s 60th birthday and the 20th anniversary of ETNA, Kent State University, OH, Apr 19–20, 2013.
- [I95] Invited presentation, Conference on Recent Advances in Optimisation, on the occasion of Philippe Toint’s 60th birthday, CERFACS, Toulouse, France, Jul 24–26, 2013.
- [I96] Invited presentation, Workshop on Linear Algebra and Optimization, on the occasion of Michael Overton’s 60th birthday, University of British Columbia, Vancouver, BC, Aug 8–10, 2013.
- [I97] Invited presentation (with **Y. Sun** and **D. Ma**), 2013 BMES Annual Meeting, Seattle, WA, Sep 25–28, 2013.
- [I98] Invited presentation (with **D. Ma**), 2014 SIAM Conference on Optimization, San Diego, CA, May 18–22, 2014.
- [I99] Invited poster presentation (with N. W. Henderson, **D. Ma**, and **Y. Sun**). Householder Symposium XIX, Spa, Belgium, Jun 8–13, 2014.
- [I100] Seminar, USI, Lugano, Switzerland, Jun 25, 2014.
- [I101] Invited presentation (with **D. Ma**), 2014 INFORMS Annual Meeting, San Francisco, CA, Nov 9–12, 2014.
- [I102] Seminar, ICMSEC, Chinese Academy of Sciences, Beijing, China, Dec 15, 2014.
- [I103] Seminar, ICME, Stanford University, Jan 29, 2015.
- [I104] Seminar, Dept of Mathematics, University of California, Berkeley, Feb 25, 2015.
- [I105] Invited presentation (with **S. Kim**), SIAM Conference on Computational Science and Engineering (CSE 15), Salt Lake City, UT, Mar 13–18, 2015.
- [I106] Seminar, ICME, Stanford University, Oct 15, 2015.
- [I107] Invited presentation (with N. W. Henderson and **D. Ma**), SIAM Conference on Applied Linear Algebra, Atlanta, GA, Oct 26–30, 2015.
- [I108] Invited presentation (with **D. Ma**), International Conference on Continuous Optimization (ICCOPT 2016), Tokyo, Japan, Aug 6–11, 2016.
- [I109] Seminar, ICME, Stanford University, Sep 29, 2016.
- [I110] Seminar, Dept of Mathematics, UC Berkeley, 12 Oct 2016.
- [I111] Invited presentation (with N. I. M. Gould and J. Scott), SIAM Conference on Computational Science and Engineering (CSE 17), Atlanta, GA, Feb 27–Mar 3, 2017.
- [I112] Invited presentation, 2017 SIAM Conference on Optimization, Vancouver, BC, Canada, May 22–27, 2017.
- [I113] Seminar, Center for Science of Information (CSoI), Dept of Computer Science, Purdue University, West Lafayette, IN, Sep 13, 2017.
- [I114] Invited presentation, 11th US–Mexico Workshop on Optimization and its Applications, Huatulco, Mexico, Jan 8–12, 2018.
- [I115] Seminar, ICME, Stanford University, Apr 5, 2018.

- [I116] Invited presentation, 4th Bay Area Optimization Meeting, Stanford University, May 19, 2018.
- [I117] Invited presentation, 23rd ISMP, Bordeaux, France, July 1–6, 2018.
- [I118] Seminar, Dept of Mathematics, UC Berkeley, Aug 29, 2018.
- [I119] Seminar, Dept of Mathematics, Linköping University, Sweden, Sep 13, 2018.

Contributed Presentations

- [T1] Contributed paper (with **M. P. Friedlander**), SIAM Annual Meeting, San Diego, CA, Jul 9–13, 2001.
- [T2] Contributed paper (with J. A. Tomlin), 18th International Symposium on Mathematical Programming, Copenhagen, Denmark, Aug 18–22, 2003.
- [T3] Contributed paper (with **H. H. Jin**, M. W. Carter, and Y. Ye), CORS/INFORMS Meeting, Banff, Alberta, Canada, May 16–19, 2004.
- [T4] Contributed paper (with **H. H. Jin** and M. W. Carter), INFORMS Annual Meeting, Denver, CO, Oct 24–27, 2004.
- [T5] Contributed paper (with **H. H. Jin** and M. W. Carter), SIAM Conference on Optimization, Stockholm, Sweden, May 15–19, 2005.
- [T6] Contributed paper (with **H. H. Jin**), INFORMS Annual Meeting, San Francisco, CA, Nov 13–16, 2005.
- [T7] Contributed paper (with U. Shanhbag and W. Murray), INFORMS Annual Meeting, San Francisco, CA, Nov 13–16, 2005.
- [T8] Contributed paper (with **D. C.-L. Fong**), 11th Copper Mountain Conference on Iterative Methods, Copper Mountain, CO, Apr 4–9, 2010.
- [T9] Contributed paper (with **D. C.-L. Fong**), 5th International Conference on High Performance Scientific Computing, Hanoi, Vietnam, Mar 5–9, 2012.
- [T10] Poster (with **Y. Sun**, R. M. T. Fleming, and I. Thiele), 2012 MSM Consortium Meeting, NIH Campus, Bethesda, MD, Oct 22–23, 2012.
- [T11] Poster (with N. W. Henderson, **D. Ma**, and **Y. Sun**), 2013 MSM Consortium Meeting, NIH Campus, Bethesda, MD, Oct 2–3, 2013.
- [T12] Poster (with N. W. Henderson, **D. Ma**, and **Y. Sun**), 2014 MSM Consortium Meeting, NIH Campus, Bethesda, MD, Sep 3–5, 2014.
- [T13] Poster (with **D. Ma**, R. M. T. Fleming, and I. Thiele), 2015 MSM Consortium Meeting, NIH Campus, Bethesda, MD, Sep 8–10, 2015.
- [T14] Poster (with **D. Ma** and L. Yang), 4th Conference on Constraint-Based Reconstruction and Analysis, Heidelberg, Germany, Sep 16–18, 2015.
- [T15] Poster (with R. M. T. Fleming, N. W. Henderson, **S. Kim**, **D. Ma**, I. Thiele, and L. Yang), 2017 MSM Consortium Meeting, NIH Campus, Bethesda, MD, Mar 22–24, 2017.