Chunhui Chen

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Computer Sciences Department
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Personal Information

Female, birthdate: January 31, 1963

Chinese Citizen. U.S. Permanent Resident

Education

Ph.D. University of Wisconsin-Madison, expected May 1995, Computer Sciences
Specialization: Mathematical Programming, Neural Networks, Parallel Computing
Advisor: John von Neumann Professor Olvi L. Mangasarian
Minor: Mathematics

M.S. University of Wisconsin-Madison, Computer Sciences
December, 1992. GPA 4.0.

M.S. Peking University, Beijing, P.R. China, Mathematics
Area of concentration: Numerical Analysis.
July, 1987. Graduated with distinction. GPA 3.9.

B.S. Peking University, Beijing, P.R. China, Mathematics
July, 1984. GPA 3.8.

Experience

1991–present: Research Assistant, Computer Sciences Department,
University of Wisconsin-Madison

1989–1991: Teaching Assistant, Mathematics Department,
University of Wisconsin-Madison

1987–1989: Teaching Assistant, Department of Mathematics, Peking University

Memberships

Association of Computing Machinery

Operations Research Society of America

American Mathematical Society

Publications

1. "On a numerical method for robust pole assignment by output feedback ", Math. Numer. Sinica 1(1988), 59-67 (Chinese). Selected for English Translation, Numerical Mathematics and Applications 10:2(1988), 52-61.

2. "An algorithm for pole assignment by output feedback", Math. Numer. Sinica 2(1988), 138-145 (Chinese).

3. "Perturbation bounds for solutions of algebraic Riccati equations", J. Comp. Math. 6:4(1988), 336-347.

4. (with J. Sun): "Perturbation bounds for the polar factors", J. Comp. Math. 7(1989), 397-401.

5. (with J. Sun): "Generalized polar decomposition", Math. Numer. Sinica. 11(1989), 262-273 (Chinese).

6. (with O.L. Mangasarian): "Smoothing methods for convex inequalities and linear complementarity problems", University of Wisconsin Computer Sciences Tech. Rpt. 1191, November 1993, submitted to Mathematical Programming.

7. (with O.L. Mangasarian): "A class of smoothing functions for nonlinear and mixed complementarity problems", University of Wisconsin Computer Sciences Math. Prog. Tech. Rpt. 94-11, August 1994, submitted to Computational Optimization and Applications.

Honors

May 4th Prize of the Beijing Association of Sciences and Technology of 1987.

Beijing Association of Numerical Mathematics Price of 1987.

References

Professor O.L. Mangasarian, Computer Sciences Department,
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Professor R.R. Meyer, Computer Sciences Department,
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Professor S.M. Robinson, Industrial Engineering Department,
University of Wisconsin, 1513 University Ave., Madison, WI 53706.
Telephone: (608) 263-6862. Email: smr@cs.wisc.edu.

Professor M.C. Ferris, Computer Sciences Department,
University of Wisconsin, 1210 West Dayton St., Madison, WI 53706.
Telephone: (608) 262-4281. Email: ferris@cs.wisc.edu.

Professor J. Sun, Institute of Information Processing,
University of Umea, S-901 87 Umea, Sweden.
Telephone: 46-090-166125. Email: jisun@cs.umu.edu.

Course Work

Linear Programming Methods
Nonlinear Programming Theory and Application
Nonsmooth Optimization
Integer Programming
Seminar in Operations Research
Advanced Linear Programming
Network Flows
Nonlinear Programming Algorithms
Topics in Computing: Parallel Computing

Database Management Systems
Programming Languages and Compilers
Machine Organization and Programming
Foundation of Software
Operating System
Data Structure
Algebraic Language Programming

Numerical Methods for ODE
Difference Methods for Initial Value Problems
Spline and Computational Geometry
Finite Element Methods
Numerical Analysis
Numerical Algebra
Numerical Approximations
Numerical Functional Analysis

Probability and Statistics
Matrix Theory
Functional Analysis
Applied Mathematics
Mathematical Physics Methods
Abstract Algebra
Analysis