PUBLICATIONS BY SUBJECTS

1 POLYNOMIAL COMPUTATIONS: EVALUATION, INTERPOLATION, MULTIPLICATION, AND DIVISION, INCLUDING GCDs

BOOKS
2. “Structured Matrices and Polynomials: Unified Superfast Algorithms” (XXV + 278 pages), Birkhäuser/Springer

REVIEW ARTICLES AND BOOK CHAPTERS

RESEARCH PAPERS (in journals and refereed proceedings of conferences).


2 UNIVARIATE POLYNOMIAL ROOT-FINDING AND FACTORIZATION

A BOOK


REVIEW ARTICLES AND BOOK CHAPTERS

RESEARCH PAPERS (in journals and refereed proceedings of conferences).


3 MULTIVARIATE POLYNOMIAL ROOT-FINDING

RESEARCH PAPERS (in journals and refereed proceedings of conferences).


4 MATRIX EIGEN-SOLVING

A BOOK CHAPTER


RESEARCH PAPERS (in journals and refereed proceedings of conferences).


5 MATRIX MULTIPLICATION

A BOOK


REVIEW ARTICLES


RESEARCH PAPERS (in journals and refereed proceedings of conferences).


6 NEWTON’S ITERATION WITH GENERAL AND STRUCTURED MATRICES

RESEARCH PAPERS (in journals and refereed proceedings of conferences).


7 MULTIGRID ALGORITHMS

RESEARCH PAPERS (in journals and refereed proceedings of conferences).


8 COMPUTATION OF A MATRIX DETERMINANT

A BOOK


RESEARCH PAPERS (in journals and refereed proceedings of conferences).


9 OTHER GENERAL MATRIX COMPUTATIONS

A BOOK


REVIEW ARTICLES AND BOOK CHAPTERS


RESEARCH PAPERS (in journals and refereed proceedings of conferences).


5. "Fast and Efficient Linear Programming and Linear Least-Squares Computations” (by V. Y. Pan and J. Reif), Computers and Mathematics (with Applications), 12A, 12, 1217–1227 (1986).


10 COMPUTATIONS WITH SPARSE AND STRUCTURED MATRICES

BOOKS


CHAPTERS IN BOOKS AND SURVEY ARTICLES


RESEARCH PAPERS (in journals and refereed proceedings of conferences).


11 PARALLEL AND VLSI COMPUTATIONS

CHAPTERS IN BOOKS AND SURVEY ARTICLES, including prefaces


RESEARCH PAPERS (in journals and refereed proceedings of conferences).


12 GRAPH ALGORITHMS

CHAPTERS IN BOOKS AND SURVEY ARTICLES


RESEARCH PAPERS (in journals and refereed proceedings of conferences).


13 COMPUTATIONS WITH INTEGERS, OVER INTEGERS AND RATIONALS, AND IN FINITE FIELDS

RESEARCH PAPERS (in journals and refereed proceedings of conferences).


14 LOWER BOUNDS

REVIEW ARTICLE


RESEARCH PAPERS (in journals and refereed proceedings of conferences).


15 THEORY OF REAL AND COMPLEX FUNCTIONS

RESEARCH PAPERS (in journals).


16 ECONOMICS AND MATHEMATICAL ECONOMICS

RESEARCH PAPERS (in journals and refereed proceedings of conferences).


3. "On Solving a Distribution Problem with Upper Bounds on the Variables and a Simplified Criterion for Optimizing Foreign Trade”, Trudy 4-oy Zimney Schkoly po Matematicheskomu Programmirovaniyu i Smezhnym Voprosam (in Russian), (Transactions of the 4-th Winter School on Mathematical Programming and Adjacent Problems), (edited by S. I. Zukhovitskiy), Iss. 5, 26–49, Drogobych (1972).


