

Publications for 2003

Refereed Article Publications

Author	Title
Dharam V. Chopra	Chopra, D.V. and Bsharat, M. <i>Contributions to balanced arrays of strength four with two symbols</i> . Congressus Numerantium 2002, Vol.157, pp 183-189.
	Chopra, D.V. and Dios, R. <i>A note on an upper bound for the constraints of some balanced arrays</i> . The Journal of Combinatorial Mathematics and Combinatorial Computing, Vol.45,2003, pp 129-135.
Thomas K. DeLillo Victor Isakov	T. DeLillo, V. Isakov, N. Valdivia, and L. Wang, <i>The detection of surface vibrations from interior acoustical pressure</i> , Inverse Problems, 19 (2003) 507-524.
Thomas K. DeLillo	N. Benchama and T. DeLillo, <i>A brief overview of Fornberg-like methods for conformal mapping of simply and multiply connected regions</i> , Bulletin of the Malaysian Mathematical Society (Second Series) 26 (2003) 53-62.
Alan Elcrat Kenneth Miller	(with Ken Miller) <i>A monotone iteration for axisymmetric vortices with swirl</i> , Differential and Integral Equations, 16(8)(2003):949-968.
Buma Fridman Daowei Ma	<i>Perturbations of Domains and Automorphism Groups</i> (with D. Ma), Journal of the Korean Mathematical Society, 40 (3)(2003),487-502.
	<i>Upper semicontinuity of the dimensions of automorphism groups of domains in C^n</i> (with D. Ma, E. Poletsky) Amer. J. of Math., 125(2003), 289-299
Tomasz Hrycak	<i>A fast numerical method for evaluation of Calderon commutators</i> (with M. Goldberg and S. Kim), Journal of Applied and Computational Mathematics 158 (2003), no. 2, 473--484.
Victor Isakov	(with O. Imanuvilov, M. Yamamoto) <i>An inverse problem for the dynamical Lamé system with two sets of boundary data</i> , Comm. Pure Appl. Math.,56(2003): 1366-1382.
	(with G. Nakamura, J.-N. Wang) <i>On uniqueness of the continuation for the dynamical Lamé system with residual stress</i> , Contemporary Math., AMS, 333(2003): 99-115.
	(with M. Yamamoto) <i>Stability in a wave source problem by Dirichlet data on subboundary</i> , J. Inverse Ill-Posed problems, 11 (2003):1-11.
Zhiren Jin Kirk Lancaster	(with Kirk Lancaster) <i>Phragmen-Lindelof theorems and the behavior at infinity of solutions of non-hyperbolic equations</i> , Pacific J. of Math., 211 (2003), 101-121.
	(with Hasan Almeftleh and Kirk Lancaster) <i>Asymptotic behavior of solutions of certain equations</i> , Communication on Applied Nonlinear Analysis, 10 (2003), 73-79.

- Zhiren Jin** *Existence of positive solutions for Dirichlet problems of some singular elliptic equations*, Electron. J. Diff. Eqns., **2003**(2003), No. 49, pp. 1-16.
- Growth rate estimates for solutions of a class of quasilinear elliptic equations*, Indiana Univ. Math. J., **52** (2003), 1579-1594
- Convergent rate estimate for solutions of Dirichlet problems for quasilinear equations*, Electron. J. Diff. Eqns., **2003**(2003), No. 122, pp. 1-14.
- Kirk Lancaster** Kirk Lancaster, *Phragmen-Lindelof theorems in slabs for some systems of non-hyperbolic second-order quasilinear equations*, Proceedings of the Royal Society of Edinburgh, Vol. 133A (2003), 1155-1173.
- Chunsheng Ma** *Long memory continuous-time covariance models*. Journal of Applied Probability, 40, 1133-1146.
- Families of spatio-temporal stationary covariance models*. Journal of Statistical Planning and Inference, 116, 489-501
- Spatio-temporal stationary covariance models*. Journal of Multivariate Analysis, 86, 97-107.
- Power-law correlations and other models with long-range dependence on a lattice*. Journal of Applied Probability, 40, 690-703.
- Nonstationary covariance functions that model space-time interactions*. Statistics and Probability Letters, 62, 411-419.
- Daowei Ma** *Characterization of the Hilbert ball by its automorphisms*, J. Korean Math. Soc., 40(2003): 503--516. (with K.-T. Kim)
- Hari Mukerjee** *Estimation of Cumulative Incidence Functions in Competing Risks Studies Under and Order Restriction*, (with H. El Barmi, S. Kochar and F. Samaniego), Journal of Statistical Planning and Inference, 118(2004): 145-165.
- Ziqi Sun** *An Inverse Problem for Inhomogeneous Conformal Killing Field Equations*, Proceedings of American Mathematical Society, 131(2003): 1583-1590.
- Anisotropic Inverse Problems in Two Dimensions*, with G. Uhlmann, Inverse Problems, 19(2003):1001-1010.
- Christian Wolf** (with L. Barreira), *Measures of maximal dimension for hyperbolic diffeomorphisms*, Communications in Math. Physics 239 (2003), 93-113.
- On measures of maximal and full dimension for polynomial automorphisms of C^2* , Transactions of the AMS 355 (2003), 3227-3239.
- (with R. Shafikov), *Filtrations, hyperbolicity and dimension for polynomial automorphisms of C^n* , Michigan Math. Journal 51 (2003), 631-649.

Published Conference Proceedings

Author	Title
Alexandre Boukhgueim	"Exact formulas and algorithms in emission tomography", Proceedings of the conference Tomography in clinic applications, Tomsk,(2003),56-59.
Dharam V. Chopra	Chopra, D.V. and Dios, R. On balanced reduced factorial designs of resolution V.Bulletin of the International Statistical Institute 2003,Vol.LX ,pp 197-198.
Victor Isakov	"The inverse problem of option pricing", Recent Developments in Theories and Numerics, International Conference on Inverse Problems, Hong Kong, 9-12 January, 2002, World Scientific, 2003, pp. 47-56.
Chunsheng Ma	Spatiotemporal models with the spatial autoregressive margin. Annual Meeting of WNAR and IMS Western Regional, June 22 - 25, 2003, Colorado School of Mines, Colorado, U.S.A. Autoregressive and Moving Averaging Random Fields. Bernoulli Society East Asian and Pacific Regional (EAPR) Conference 2003}, 18-20 December, 2003, Hong Kong University of Science and Technology, Hong Kong.

Formal Papers Delivered at Professional Meetings

Author	Title
Dharam V. Chopra	Further contributions to balanced arrays. Thirty-Fourth International conference on Combinatorics,Graph theory,and Computing held in Boca Raton(Florida),March 2003. D.V. Chopra, R. Dios. Further investigations on Orthogonal arrays of strength four.Seventeenth Mid-West Conference on Combinatorics,Cryptography,and computing held in Las Vegas(Nevada),November 2003. Factorial Designs and Balanced Arrays.Presented at the 54th session of the International Statistical Institute held in Berlin,August 2003.
Alan Elcrat	Multiply Connected Schwarz-Christoffel Transformations, ICIAM, Sydney, Australia,July 9,2003.
Buma Fridman	Invited talk <i>On the dimension of holomorphic automorphism groups</i> , October 31, 2003, Pohang University of Science and Technology (South Korea).
Xiaomi Hu	"Data reduction on partial parameters in regression", International Workshop on Matrices and Statistics 2003, Dortmund, Germany 08/08/2003
Victor Isakov	"Uniqueness of obstacles and boundary conditions in inverse scattering", International Workshop on Scattering and Inverse Scattering, Banff, Canada, March 2003; "On nearfield acoustical holography", International Workshop "Inverse Problems in Wave Scattering and Impedance Tomography", Oberwolfach, Germany, April 2003; "Uniqueness of the continuation and inverse problems for some systems of mathematical physics", Conference on Control Theory for PDE, Georgetown University, Washington, DC, USA, May 2003; "Uniqueness of the continuation and inverse problems for elasticity system", First Joint Meeting between RSME and the AMS, Seville, Spain, June 2002;

“Stability in the recovery of the Source of the Acoustical Noise”, Sixth International Conference on Theoretical and Computational Acoustics, Honolulu, Hawaii, August 2003;

“Carleman Estimates. Uniqueness and Stability in the Cauchy Problem.”, Symposium on Inverse Problems, The Fields Institute, University of Toronto, Canada, October 2003;

“On nearfield acoustic holography”, International workshop “Computational Methods for Inverse Problems and Applications”, IPAM, UCLA, Los Angeles, CA, November 2003;

“Available mathematical results and possible models for inverse problems in hydraulics and oil exploration”, Inverse Problems Cuminated Workshop at Lake Arrowhead, IPAM, UCLA, Los Angeles, CA, December 2003.

Zhiren Jin

Convergent Rate of Solutions of Dirichlet Problems for Quasilinear Equations, American Mathematical Society East Section Meeting, San Francisco, May 3-4, 2003.

Kenneth Miller

Steady vortex flows past a cylinder or sphere, AMS-SIAM Summer Research Conference on Hydrodynamic Stability and Flow Control, Snowbird, UT, July 6-10, 2003.

Hari Mukerjee

Inferences about Distributions with New Better Than Used Property, WNAR/IMS Western Regional Meeting, Boulder, CO, June 22.

Phillip E. Parker

C. Jang and P.E. Parker, "Examples of Conjugate Loci of Pseudoriemannian 2-step Nilpotent Lie Groups with Nondegenerate Center," Special Session on Recent Advances in Riemannian and Lorentzian Geometry, AMS Annual Meeting (Baltimore MD), January 2003. Presenter was Parker.

Christian Wolf

Morse-Smale diffeomorphisms in the Henon family, Dynamical Systems Conference, University of North Texas, May 2003

Measures of maximal dimension for hyperbolic diffeomorphisms, Dynamical Systems Conference, Penn State University, October 2003

Measures of maximal dimension for hyperbolic diffeomorphisms, Prairie Analysis Seminar, Kansas State University, October 2003

Book Reviews Published in Professional Journals and Abstracts

Author

Title

Dharam V. Chopra

Interpreting quantitative data by D.Byrne.Choice 40(2002),pp312-313.

Doing Statistics with SPSS by A.W.Kerr.Choice 40 (2002),p 665.

Computational financial mathematics using Mathematica:Optimal trading in stocks and options by S.Stojanovic.Choice 40(2003),p 1583.

Testing statistical hypothesis of equivalence by S.Wellek.Choice 40 (2003),p 1782.

Victor Isakov

“Point Sources and Multipoles in Inverse Scattering Theory”, R. Potthast, SIAM Review,45, 1 (2003): 149-150.