

Conference Proceedings and Presentations

1. D. E. Gustafson, A. S. Willsky, S. K. Mitter, A. Akant, J.-Y. Wang, P. C. Doerschuk, M. E. Womble, M. C. Lancaster, J. H. Triebwasser, "A Prototype System for Automated Interpretation of Vectorcardiograms," *Proceedings of the 1977 Joint Automatic Control Conference*, June 22–24, 1977, San Francisco, CA (New York: Institute of Electrical and Electronics Engineers, 1977), pp. 776–781.
2. P. C. Doerschuk, D. E. Gustafson, A. S. Willsky, "Multifunctional Upper-extremity Prosthesis Control Signal Generation Using EMG Signal Processing," *Proceedings: 1979 Joint Automatic Control Conference*, June 17–21, 1979, Denver, CO (New York: American Institute of Chemical Engineers, 1979), pp. 414–419.
3. Peter C. Doerschuk, Robert R. Tenney, Alan S. Willsky, "Estimation-Based Approaches to Rhythm Analysis in Electrocardiograms," *Lecture Notes in Control and Information Sciences vol. 77: Detection of Abrupt Changes in Signals and Dynamical Systems* (Berlin: Springer-Verlag, 1986), pp. 297–313; *Proceedings of the "Centre National de la Recherche Scientifique" conference on "Detection of Abrupt Changes in Signals and Dynamical Systems,"* March 21–22, 1984, Paris, France.
4. Peter C. Doerschuk, Toshio M. Chin, and Alan S. Willsky, "Modeling of Cardiac Rhythms—A Signal Processing Perspective," 15th Annual Conference of the International Society for Computerized Electrocardiology, Virginia Beach, VA, April 22–27, 1990; *Journal of Electrocardiology*, vol. 23 (Supplement), pp. 102–110, 1991.
5. Peter C. Doerschuk, "Bayesian Signal Reconstruction from Fourier Transform Magnitude and X-ray Crystallography," *SPIE 36th Annual International Symposium on Optical Applied Science and Engineering*, San Diego, CA, July 21–26, 1991; *Stochastic and Neural Methods in Signal Processing, Image Processing, and Computer Vision*, Su-Shing Chen (Editor), *Proc. SPIE*, vol. 1569, pp. 70–79 (1991).
6. Peter C. Doerschuk, "Multidimensional Bayesian Signal Reconstruction from Fourier Transform Magnitude and X-ray Crystallography," IEEE Signal Processing Society, *Proceedings of the Seventh Workshop on Multidimensional Signal Processing*, Lake Placid, New York, September 23–25, 1991, Session 6, Paper 8, 2 pages, no page numbers.
7. Peter C. Doerschuk, "Signal Reconstruction from Fourier Transform Magnitude Using Markov Random Fields in X-ray Crystallography," *Proceedings: IEEE 1992 International Conference on Acoustics, Speech, and Signal Processing*, San Francisco, CA, March 23–26, 1992, vol. 4, pp. 141–144.
8. Peter C. Doerschuk, "X-ray Crystallography as a Bayesian Signal Reconstruction Problem," Optical Society of America, *Signal Recovery and Synthesis IV*, New Orleans, LA, April 14–16, 1992, 1992 Technical Digest Series Volume 11, pp. 28–30 (Invited).
9. Saul B. Gelfand, Peter C. Doerschuk, Mohamed Nahhas-Mohandes, "Simulated Annealing Algorithms for Continuous Optimization," *Transactions of the Tenth Army Conference on Applied Mathematics and Computing*, July 1992, ARO Report 93–1, pp. 273–281.
10. Saul B. Gelfand, Peter C. Doerschuk, M. Nahhas-Mohandes, "Continuous-State Simulated Annealing Algorithms: Theory and Application," *SPIE 37th Annual International Symposium on Optical Applied Science and Engineering*, San Diego, CA, July 19–24, 1992; *Neural and Stochastic Methods in Image and Signal Processing*, Su-Shing Chen (Editor), *Proc. SPIE*, vol. 1766, pp. 235–245 (1992).
11. Peter C. Doerschuk, "Bayesian Signal Reconstruction from Fourier Transform Magnitude and X-ray Crystallography," *SPIE 37th Annual International Symposium on Optical Applied Science and Engineering*, San Diego, CA, July 19–24, 1992; *Inverse Problems in Scattering and Imaging*, Michael A. Fiddy (Editor), *Proc. SPIE*, vol. 1767, pp. 409–418 (1992).
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13. Chi-hsin Wu, Peter C. Doerschuk, “Deterministic Parallel Computation of Bayesian Deblurring Using Cluster Approximations,” *Proceedings: 1993 IEEE International Symposium on Circuits and Systems*, Chicago, IL, May 3–6, 1993, vol. 1, pp. 395–398.
 14. Peter C. Doerschuk, “Computational X-ray Crystallography as a Signal Recovery Problem,” *SPIE’s 1993 International Symposium on Optical Applied Science and Engineering*, San Diego, CA, July 11–16, 1993; *Digital Image Recovery and Synthesis II*, Paul S. Idell (Editor), *Proc. SPIE*, vol. 2029, pp. 105–114 (1993).
 15. Chi-hsin Wu, Peter C. Doerschuk, “Cluster Approximations for Statistical Image Processing,” *SPIE’s 1993 International Symposium on Optical Applied Science and Engineering*, San Diego, CA, July 11–16, 1993; *Neural and Stochastic Methods in Image and Signal Processing II*, Su-Shing Chen (Editor), *Proc. SPIE*, vol. 2032, pp. 65–72 (1993) (Invited).
 16. George R. Wodicka, Shan Lu, Peter C. Doerschuk, “Parametric Estimation of Phase Delay for Sound Transmitted Through Human Lung,” *Proceedings of the 15th Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, San Diego, CA, October 28–31, 1993, pp. 373–374.
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 19. Peter C. Doerschuk, “Performance of Discrete-Time Nonlinear Filters: A Cramer-Rao Bound for a More General System Model,” *Proceedings of the 32nd Annual Allerton Conference on Communication, Control, and Computing*, Allerton House (University of Illinois), Monticello IL, September 28–30, 1994, pp. 814–821.
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 23. Peter C. Doerschuk, “X-ray Crystallographic Imaging,” *Proceedings: First IEEE International Conference on Image Processing*, Austin, TX, November 13–16, 1994, vol. 3, pp. 538–542 (Special Session on “Medical Imaging Modalities”).
 24. Yibin Zheng, Peter C. Doerschuk, John E. Johnson, “Symmetry as A Priori Information: Low-resolution Reconstruction of Viral Structure from Solution X-ray Scattering Data,” Optical Society of America, *Signal Recovery and Synthesis V*, Salt Lake City, UT, March 12–17, 1995, *1995 Technical Digest Series*, vol. 11, pp. 17–19.
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54. Wen Gao, Yibin Zheng, and Peter C. Doerschuk, "Inverse Problems Arising in Viral Structure Determination from X-ray and Electron Microscopy Data," *1999 IEEE Information Theory Workshop on Detection, Estimation, Classification and Imaging (DECI)*, Santa Fe, New Mexico, February 24–26, 1999, p. 16 (Invited).
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89. Seunghye Lee and Peter C. Doerschuk, "Determination of Helical Symmetry Parameters from Cryo Electron Microscopy Images and Applications to Virus Structure", Optical Society of America (OSA) Topical Meeting on Signal Recovery and Synthesis (SRS), 3 pages, Vancouver, British Columbia, June 18-20, 2007.
90. Yili Zheng, Peter C. Doerschuk, and John E. Johnson, "Automatic statistical symmetry classification of phage P22 portal electron microscopy images", *BMES*, Los Angeles, CA, September 26–29, 2007. Abstract only.
91. Youngha Hwang, Peter C. Doerschuk, and John E. Johnson, "3-D reconstruction from solution x-ray scattering of labeled and unlabeled objects", *BMES*, Los Angeles, CA, September 26–29, 2007. Abstract only.

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