CURRICULUM VITAE

PRAMOD KUMAR VARSHNEY

BORN: July 1952, Allahabad, India, U.S. Citizen.

EDUCATION:

Ph.D. in Electrical Engineering, University of Illinois, 1976.
Title of Thesis: "Models and Efficient Receivers for Communication Channels with Memory"

M.S. in Electrical Engineering, University of Illinois, 1974.
Title of Thesis: "Markov Gap Model with Memory for Digital Channels"

B.S. in Electrical Engineering and Computer Science, University of Illinois, (Highest Honors), 1972.

EXPERIENCE:

Distinguished Professor, Syracuse Univ., 2007-present.
Executive Director, The Center for Advanced Systems and Engineering (CASE), 2009-2023
Director Joint Syracuse University-Xidian University Center for Information Fusion, 2018-2023.
Guest professor in the School of Electronic Engineering at Xidian University, 2018-2023.
International mentor of the prestigious 'Bi Dexian Class', Xidian University, 2018-2023.
Professor, Syracuse Univ., 1986-2007.
Research Director, NY State Center for Advanced Technology in Computer Applications and Software Engineering, Syracuse University, 2001-2008.
Leader, Intelligent Control and Management, Center of Excellence in Environmental Systems, Syracuse University, 2002-present.
Adjunct Professor, Department of Radiology, Upstate Medical University, 2003-present.
Visiting Scientist, AFRL at Rome Research Site, 1997-1999.
Visiting Professor, De LaSalle University, Manila, Philippines, 1997.
Associate Chair, Electrical & Computer Engineering Dept., Syracuse Univ., 1993-1996.
Associate Professor, Syracuse University, 1980-1986.
Assistant Professor, Syracuse University, 1976-1980.
Visiting Professor, Indian Institute of Technology, Delhi, India, 1984-1985.
Research Associate, Rome Air Development Center, Summer 1979.
Graduate Assistant, University of Illinois, 1972-1976.

AREAS OF INTEREST:

Data and Information Fusion
Wireless Sensor Networks
Signal and Image Processing
Wireless Communications and Networks

Statistical Communication Theory
Detection and Estimation Theory
Radar Signal Processing
Physical Layer Security
Machine Learning

HONORS AND AWARDS:

Lifetime Achievement Award, Syracuse University, 2023.
Pioneer Award, IEEE Aerospace and Electronic Systems Society, 2021.
Claude Shannon-Harry Nyquist Technical Achievement Award, IEEE Signal Processing Society, 2021
Yaakov Bar-Shalom Award for a Lifetime of Excellence in Information Fusion, 2018
UIUC ECE Distinguished Alumni Award, 2015
Doctor of Engineering *honoris causa*, Drexel University, 2014.
ACM CCS Test-of-Time Award, 2013
IEEE Judith A. Resnik Award, 2012.
Appointed Distinguished Professor at Syracuse University, 2007.
Honorable Mention for paper at the 2nd International Innovations and Real-time Applications of Distributed Sensor Networks Symposium 2006.
Best Paper Award, Fusion'2004.
Chancellor's Citation for Exceptional Academic Achievement 2000, Syracuse University.
IEEE Third Millennium Medal, 2000.
Crouse-Hinds Award for Excellence in Scholarship, Syracuse University, 1998.
Distinguished Lecturer, IEEE Aerospace and Electronic Systems Society, 1997-2012.
IEEE Fellow, 1997.
Dow Outstanding Young Faculty Award, St. Lawrence Section, American Society of Engineering Education, 1981.
AFOSR/SCEEE Fellow, 1979.
University of Illinois Fellow, 1972.
Bronze Tablet Senior, University of Illinois, 1972.
James Scholar; University of Illinois, 1970-1972.

PROFESSIONAL SOCIETY MEMBERSHIPS AND SELECTED ACTIVITIES:

Life Fellow, IEEE
Member, Tau Beta Pi
Member, International Society of Information Fusion
Vice President, Int. Society for Information Fusion, 2000
President, Int. Society for Information Fusion, 2001
Member, Board of Directors of the Int. Society for Information Fusion, 1998-2006
Technical Program Chair, FUSION 1999
Chair, Syracuse Section IEEE AES/COM Chapter 1990-2000
IEEE, Fellow Evaluation Committee (AES), 1998-2009

Member IEEE Fellow Committee, 2014-2016
Co-General Chair, 1997 IEEE National Radar Conference.
Guest Editor, Proceedings of the IEEE, Special Issue on Data Fusion, January 1997
Tech. Program Chair, IEEE Conf. on Adv. Video and Signal Based Surveillance, 2003
Co-General Chair IEEE Int. Conference on Ultra Wideband Communications, 2012
Editorial Boards of Paritantra, Cluster Computing, Information Fusion, Information Sciences, IEEE Trans. on Signal Processing, Journal on Advances on Information Fusion, IEEE Signal Processing Magazine
Co-TPC Chair, Int. Conf. on Computing, Networking and Communications (ICNC 2017)
Co-General Chair, Int. Conf. on Computing, Networking and Commun. (ICNC 2018)
Co-Chair of ACM Mobihoc Workshop on Dist. Info. Proc. in Wireless Networks, 2017

BIOGRAPHICAL LISTINGS:

Who's Who in Technology Today
Outstanding Young Men of America
Directory of World Researchers' 1980's Subjects
International Who's Who in Engineering
Dictionary of International Biography
American Men and Women of Science

PATENTS

Method and Apparatus for Wireless Image Transmission (with L. Ramac), US patent 6,915,016, B2, Awarded July 2005.

H. Chen, J. Michels and P.K. Varshney, Optimized Stochastic Resonance Method for Signal Detection and Image Processing, US 7,668,699 B2, Issued Feb. 23, 2010.

Anna Scaglione, Yao-Win Hong, Pramod K Varshney: Methods and systems for obtaining data from networks of sources. Cornell Research Foundation. Apr, 19 2011: US7929411

R. Peng, H. Chen and P.K. Varshney, "Optimized Stochastic Resonance Signal Detection Method." U.S. Patent Number 8,214,177, July 3, 2012.

SCHOLARLY PUBLICATIONS

BOOKS:

1. P.K. Varshney, *Distributed Detection and Data Fusion*, Springer-Verlag, 1997.
2. G.L.Foresti, C. S. Regazzoni and P.K.Varshney, Editors, *Multisensor Surveillance Systems: The Fusion Perspective*, Kluwer Academic Publishers, 2003

3. P.K. Varshney and M.K. Arora (Eds.), *Advanced Image Processing Techniques for Remotely Sensed Hyperspectral Data*, Springer Verlag, 2004.
4. Modern Approaches in Applied Intelligence: Part 1 (Eds. K. Mehrotra, C. Mohan, J. Oh, P. Varshney, and M. Ali), Springer LNAI 6703
5. Modern Approaches in Applied Intelligence: Part 2 (Eds. K. Mehrotra, C. Mohan, J. Oh, P. Varshney, and M. Ali), Springer LNAI 6704
6. Developing Concepts in Applied Intelligence (Eds. K. Mehrotra, C. Mohan, J. Oh, P. Varshney, and M. Ali), Springer: *Studies in Computational Intelligence 363*
7. A. Vempaty, B. Kailkhura and P. K. Varshney, *Secure Networked Inference with Unreliable Data Sources*, Springer, 2018.

BOOK CHAPTERS:

1. P.K. Varshney, "Decentralized Bayesian Detection Theory", Published in *Stochastic Large-Scale Engineering Systems*, S. Tzafestas and K. Watanabe, Editors, Marcel Dekker Inc., 1992.
2. P.K. Varshney, "Information Theory and Coding", Published in the *MacMillan Encyclopedia of Computers*, Vol. 1, Gary G. Bitter, Editor, Macmillan, 1992.
3. P.K. Varshney, "Coding Theory", Published in the *MacMillan Encyclopedia of Computers*, Vol. 1, Gary G. Bitter, Editor, Macmillan, 1992.
4. P. K. Varshney, "Information Theory", in *Wiley Encyclopedia on Electrical and Electronics Engineering*, Vol. 10, pp. 139-145, 1999.
5. Lit-Hsin Loo, Erwei Lin, Moshe Kam and Pramod Varshney, "Cooperative Multi-Agent Constellation Formation under Sensing and Communication Constraints", in *Cooperative Control and Optimization*, pp.143-170, Kluwer Academic Press, 2002.
6. P. K. Varshney, "An Introduction to Distributed Detection Theory", in *Multisensor Fusion*, pp. 163-182, Kluwer Academic Press, 2002.
7. Lisa Osadciw, Pramod Varshney, and Kalyan Veeramachaneni, "Optimum Fusion Rules for Multimodal Biometric Systems", Chapter 15, *Multisensor Surveillance Systems: The Fusion Perspective*, Kluwer Academic Publishers, 2003.
8. H.M. Chen and P.K.Varshney, "MI Based Registration of Multi-Sensor and Multi-Temporal Images," Chapter 7 of *Advanced Image Processing Techniques for Remotely Sensed Hyperspectral Data*, pp.181-198. Editors: P.K. Varshney and M.K. Arora. Publisher: Springer Verlag, 2004.
9. S.A.Robila and P.K. Varshney, "Feature Extraction from Hyperspectral Data Using ICA," Chapter 8 of *Advanced Image Processing Techniques for Remotely Sensed Hyperspectral Data*, pp.199-216. Editors: P.K. Varshney and M.K. Arora. Publisher: Springer Verlag, 2004.
10. T. Kasetkasem, M.K.Arora, and P.K.Varshney, "An MRF Model Based Approach for Sub-pixel Mapping from Hyperspectral Data," Chapter 11 of *Advanced Image Processing Techniques for Remotely Sensed Hyperspectral Data*, pp.279-307. Editors: P.K. Varshney and M.K. Arora. Publisher: Springer Verlag, 2004.
11. T. Kasetkasem and P.K.Varshney, "Image Change Detection and Fusion Using MRF Models," Chapter 12 of *Advanced Image Processing Techniques for Remotely Sensed Hyperspectral Data*, pp.257-277. Editors: P.K. Varshney and M.K. Arora. Publisher: Springer Verlag, 2004.

12. H. M. Chen and P. K. Varshney, "Mutual Information Based Image Registration with Application to Medical Brain Imagery," Chapter 2 of *Multi-Sensor Image Fusion and Its Applications*, pp. 37-56, editors: R. S. Blum and Z. Liu. CRC Press, Taylor & Francis Group, 2005.
13. H. M. Chen and P. K. Varshney ,"Techniques for Mutual Information-Based Brain Image Registration and Their Application" for *Medical Imaging Systems Technology:Vol 1: Analysis and Computational Methods* edited by Cornelius T. Leondes. Publisher: World Scientific Publishing, Sept. 2005.
14. P.K.Varshney and C.K.Mohan, "On Sensor Networking and Signal Processing for Smart and Safe Buildings," in *Advances in Pervasive Computing and Networking*, B.K. Szymanski and B. Yener (Eds.) Springer, 2005.
15. P.K. Varshney and R. Viswanathan, "Detection in Communications and Radar", in *Encyclopedia of Statistical Sciences*, McGraw Hill, 2005.
16. P. K .Varshney, "Pervasive Sensing and Control," Invited Festschrift Contributions in *Glimpses of Systems Theory and Novel Applications*, H. S. Sekhon, R. K. Varshney, P. Kumar, J. M. Singh, and R. Prasad, Eds. Aligarh, India: Systems Society of India Punjab Chapter, 2005, pp. 144-148
17. Yao-Win Hong and Pramod K. Varshney, *Advanced Signal Processing for Sensor MAC Protocols*, in "Wireless Sensor Networks: Signal Processing and Communications Perspectives", Editors: A. Swami, Z. Qing, Y.-W. Hong and L. Tong, John Wiley and Sons, 2007.
18. D. Chen and P. K. Varshney, "Contention-Based Geographic Forwarding: A communication paradigm for efficient data delivery in wireless mesh networks," Wireless Mesh Networking: With 802. 16, 802. 11, and ZigBEE, pp. 42-50, 2008.
19. D. Chen and P. K. Varshney, "Geographic routing in wireless ad hoc networks," Guide to Wireless Ad Hoc Networks, Springer, 2008.
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21. Luca Bixio, Andrea F. Cattoni, Carlo S. Regazzoni, Pramod K. Varshney, "Embodied Cognition-Based Distributed Spectrum Sensing for Autonomic Wireless Systems", in M. K. Denko, L. T. Yang, Y. Zhang , Autonomic Computing and Networking, Springer, USA, 2009
22. Arlene Cole-Rhodes and P.K.Varshney, "Image registration using mutual information." in Image Registration for Remote Sensing, edited by LeMoigne et al., May 2011
23. M. Xu and P.K.Varshney, "Bounding the performance of image registration" in Image Registration for Remote Sensing, edited by LeMoigne et al., May 2011
24. S. G. Iyengar, P. K. Varshney and T. Damarla, "Biometric Authentication: A Copula Based Approach", in B. Bhanu and V. Govindraju, Multibiometrics for Human Identification, Cambridge Univ. Press, June 2011
25. R. Niu, L. Zuo, E. Masazade, and P. K. Varshney, ``Conditional posterior Cramer-Rao lower bound and its applications in adaptive sensor management", in Distributed Video Sensor Networks, Bhanu, B.; Ravishankar, C.V.; Roy-Chowdhury, A.K.; Aghajan, H.; Terzopoulos, D. (Eds.) Springer, 2011.

26. P.K. Varshney and R. Viswanathan, “Detection in Communications and Radar,” in Methods and Applications of Statistics in Engineering, Quality Control, and the Physical Sciences, Editor: N. Balakrishnan, Wiley, NY, pp. 154-170, 2011
27. P.K. Varshney, E. Masazade, P. Ray, and R. Niu, “Distributed Detection in Wireless Sensor Networks,” in Distributed Data Fusion for Network-Centric Operations, edited by D. L. Hall, C. Y. Chong, J. Llinas, and M. E. Liggins, CRC Press, 2012.
28. Q. Cheng, R. Niu, A. Sundaresan and P.K. Varshney, "Distributed Detection and Decision Fusion with Applications to Wireless Sensor Networks", Integrated Tracking, Classification, and Sensor Management: Theory and Applications, Wiley/IEEE, June 2012.
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31. S. G. Iyengar, H. He, A. Subramanian, R. Niu and P. K. Varshney, “Distributed Detection and Data Fusion with Heterogeneous Sensors,” in Multisensor Data Fusion: From Algorithm and Architecture Design to Applications, H. Fourati, Ed. , pp. 127-145, CRC Press, 2015.
32. B. Kailkhura, A. Vempaty, and P. K. Varshney, "Collaborative Spectrum Sensing in the Presence of Byzantine Attacks", in Cooperative and Graph Signal Processing, Petar M. Djuric and Cedric Richard, Ed. Elsevier. 2018
33. D. Devicharan, C. K. Mohan, K. G. Mehrotra and P. K. Varshney, “Perturbed Attractor Particle Swarm Optimization for Image Restoration,” Chapter 24 in Swarm Intelligence: From Concepts to Applications, ed. Ying Tan, Pub. Institute for Eng. Technology, UK, 2018.
34. A. Vempaty, B. Kailkhura, and P. K. Varshney, “Robust Fusion of Unreliable Data Sources Using Error Correcting Output Codes", in Data Fusion in Wireless Sensor Network: A Statistical Signal Processing Perspective edited by Domenico Ciuonzo and Pierluigi Salvo Rossi, IET International Book Series on Sensing, 2019.
35. T. Wimalajeewa, and P. K. Varshney, “Compressed Distributed Detection and Estimation”, in Data Fusion in Wireless Sensor Network: A Statistical Signal Processing Perspective edited by Domenico Ciuonzo and Pierluigi Salvo Rossi, IET International Book Series on Sensing, 2019.
36. P. K. Varshney, Sensor Fusion, in Computer Vision: A Reference Guide, edited by Katsushi Ikeuchi, Springer, 2021
37. Geng, Baocheng, Pramod K Varshney, and Muralidhar Rangaswamy. "Information Integration from Human and Sensing Data for Cognitive Radar (Preprint)." Ed. by Muralidhar Rangaswamy, Kumar Vijay Mishra, and Bhavani Shankar Mysore. IET Press Radar, Electromagnetics and Signal Processing Technologies Series. (To appear in 2024).

BOOK REVIEWS:

1. P.K. Varshney, "Review of Fundamentals of Multisite Radar Systems", Signal Processing, vol. 81, 2001.

REFEREED JOURNAL PAPERS:

1. P.K. Varshney and A.H. Haddad, "A Receiver with Memory for Fading Channels", *IEEE Trans. on Communications*, vol. COM-26, pp.278-283, Feb.1978.
2. P.K. Varshney and A.H. Haddad, "A One-Bit Memory Receiver for Channels with Memory", *IEEE Trans. on Aerospace and Electronic Systems*, vol. AES-14, pp. 906-911, Nov.1978.
3. P.K. Varshney, "On Analytical Modeling of Intermittent Faults in Digital Systems", *IEEE Trans. on Computers*, vol. C-28, pp.786-791, Oct.1979.
4. P.K. Varshney, "Quantization of a Signal Having Multiple Hypotheses", *Proc. IEEE* (letters), vol. 68, pp. 628-629, May 1980.
5. P.K. Varshney, "Combined Quantization-Detection of Uncertain Signals", *IEEE Trans. on Information Theory*, vol. IT-27, pp.262-265, March 1981.
6. P.K. Varshney, C.R.P. Hartmann, and J.M. Faria, "Application of Information Theory to Sequential Fault Diagnosis", *IEEE Trans. Computers*, vol. C-31, pp.164-170, Feb.1982.
7. C.R.P. Hartmann, P.K. Varshney, K.G. Mehrotra and C.L. Gerberich, "Application of Information Theory to the Construction of Efficient Decision Trees", *IEEE Trans. on Information Theory*, vol. IT-28, pp.565-577, July 1982.
8. J.G. Shanthikumar, P.K. Varshney and K. Sriram, "A Priority Cutoff Flow Control Scheme for Integrated Voice-Data Multiplexers", *ACM-Sigmetrics Performance Evaluation Review*, vol.11, pp.8-14, Fall 1982.
9. V.C. Vannicola and P.K. Varshney, "Spectral Dispersion of Modulated Signals Due to Oscillator Phase Instability: White and Random Walk Phase Model", *IEEE Trans. on Communications*, vol. COM-31, pp.886-895, July 1983.
10. K. Sriram, P.K. Varshney and J.G. Shanthikumar, "Discrete-Time Analysis of Voice-Data Multiplexers With and Without Speech Activity Detectors", *IEEE Journal on Selected Areas in Communications*, vol. SAC-1, pp.1124-1132, Dec. 1983.
11. P.K. Varshney and C.R.P. Hartmann, "Sequential Fault Diagnosis of Modular Systems", *IEEE Trans. Computers*, vol. C-33, pp.194-197, Feb.1984.
12. C.R.P. Hartmann, W.H. Debany, and P.K. Varshney, "Multiple Fault Detection in Fanout-Free Combinational Networks", *Electronics Letters*, vol. 20, No. 12, pp. 516-517, June 1984.
13. Z. Chair and P.K. Varshney, "Optimal Data Fusion in Multiple Sensor Detection Systems", *IEEE Trans. on Aerospace and Elect. Syst.*, vol. AES-22, pp. 98-101, January 1986.
14. W.H. Debany, Jr., P.K. Varshney and C.R.P. Hartmann, "Network Reliability Evaluation Using Probability Expressions", *IEEE Trans. on Reliability*, vol. R-35, pp.161-166, June 1986.
15. W.H. Debany, Jr., P.K. Varshney and C.R.P. Hartmann, "Random Test Length With and Without Replacement", *Electronics Letters*, vol. 22, No. 20, pp. 1074-75, September 25, 1986.
16. R.K. Varshney and P.K. Varshney, "Recursive Estimation with Uncertain Observations in a Multisensor Environment", *IEE Proceedings*, Part F, pp. 527-533, October 1986.
17. Z. Chair and P.K. Varshney, "Distributed Bayesian Hypothesis Testing with Distributed Data Fusion", *IEEE Trans. on Systems, Man and Cybernetics*, vol. 18, pp. 695-699, Sept.-Oct. 1988.

18. M. Barkat and P.K. Varshney, "Decentralized CFAR Signal Detection", *IEEE Trans. on Aerospace and Elect. Systems*, vol. 25, pp. 41-149, March 1989.
19. I.Y. Hoballah and P.K. Varshney, "An Information Theoretic Formulation of the Distributed Detection Problem", *IEEE Trans. on Information Theory*, vol. 35, pp. 988-994, Sept. 1989.
20. I.Y. Hoballah and P.K. Varshney, "Distributed Bayesian Signal Detection", *IEEE Trans. on Information Theory*, vol. 35, pp. 995-1000, Sept.1989.
21. M. Barkat, S.D. Himonas, and P.K. Varshney, "CFAR Detection for Multiple Target Situations", *IEE Proceedings*, vol. 136, Part F, No. 5, pp.193-209, October 1989.
22. P.K. Varshney and S. Dey, "Fairness in Computer Networks: A Survey", *Journal of Institute of Electronic and Telecommunication Engineers*, Special Issue on Digital Communications, May-June, 1990.
23. A.M. Kabakcioglu, P.K. Varshney and C.R.P. Hartmann, "Application of Information Theory to Switching Function Minimization", *IEE Proceedings*, Part E, pp. 389-393, Sept. 1990.
24. M. Barkat and P.K. Varshney, "Adaptive Cell-Averaging CFAR Detection in Distributed Sensor Networks", *IEEE Trans. on Aerospace and Electronic Systems*, vol. 27, pp. 424-429, May 1991.
25. K.T. Newport and P.K. Varshney, "Design of Survivable Communication Networks under Performance Constraints", *IEEE Trans. on Reliability*, vol. 40, pp. 433-440, October 1991.
26. W.A. Hashlamoun and P.K. Varshney, "An Approach to the Design of Distributed Bayesian Detection Structures", *IEEE Trans. on Systems, Man and Cybernetics*, vol. 21, Sept./Oct. 1991.
27. R. Vaidyanathan, C.R.P. Hartmann and P.K. Varshney, "PRAM's with Variable Word-Size", *Information Processing Letters*, vol. 42, pp. 217-222, June, 1992.
28. J. Han, P.K. Varshney and R. Srinivasan, "Distributed Binary Integration", *IEEE Trans. on Aerospace and Elect. Systems*, vol. 29, pp. 2-8, Jan. 1993.
29. R. Vaidyanathan, C.R.P. Hartmann and P.K. Varshney, "Running ASCEND, DESCEND, and PIPELINE Algorithms in Parallel Using Small Processors", *Information Processing Letters*, vol. 46, pp.31-36, April 1993.
30. T.C. Wang and P.K. Varshney, "A Tracking Algorithm for Maneuvering Targets", *IEEE Trans. on Aerospace and Elect. Systems*, vol. 29, pp. 910-924, July 1993.
31. W.A. Hashlamoun and P.K. Varshney, "Further Results on Decentralized Bayesian Signal Detection", *IEEE Trans on Info. Theory*, vol. 39, Sept. 1993.
32. T.C. Wang and P.K. Varshney, "Measurement Preprocessing Approach for Nonlinear Target Tracking", *IEE Proceedings, Part F.*, vol. 140, pp. 316-322, Oct.1993.
33. S. Dey and P.K. Varshney, "Flow Control Methodology for Virtual Circuit Networks", *IEE Proceedings, Part I.*, vol. 140, pp .494-504, Dec. 1993.
34. J.H. Michels, P.K. Varshney and D.D. Weiner, "Synthesis of Correlated Random Signals for Performance Evaluation of Multichannel Systems", *IEEE Trans. on Signal Processing,* vol. 42, pp. 367-375, Feb. 1994.
35. W.A. Hashlamoun, P.K. Varshney and V.N.S. Samarasooriya, "A Tight Upper Bound on the Bayesian Probability of Error", *IEEE Trans. on Pattern Analysis and Machine Intelligence*, vol. 16, pp.220-224, Feb. 1994.
36. T.C. Wang and P.K. Varshney, "Measurement Preprocessing Approach for Target Tracking in a Cluttered Environment", *IEE Proceedings, Part F,* vol. 141, pp. 151-158, June 1994.

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38. R. Vaidyanathan, C. R. P. Hartmann and P. K. Varshney, "Parallel Integer Sorting Using Small Operations", *Acta Informatica*, vol. 32, pp. 79-92, 1995.
39. S. Alhakeem and P.K. Varshney, "A Unified Approach to the Design of Decentralized Detection Systems", *IEEE Trans. on Aerospace and Elect. Syst.,* vol. 31, pp. 9-20, Jan. 1995.
40. J. Michels, P.K. Varshney and D.D. Weiner, "Multichannel Signal Detection Involving Temporal and Cross-Channel Correlation", *IEEE Trans. on Aerospace and Elect. Syst.,* vol. 31, pp. 866-880, July 1995.
41. C. Tumuluri and P.K. Varshney, "An Evidential Extension of the MRII Training Algorithm for Detecting Erroneous MADALINE Responses", *IEEE Trans. on Neural Networks*, vol. 6, pp. 880-892, July 1995.
42. M.K. Uner and P.K. Varshney, "Distributed CFAR Detection in Homogeneous and Nonhomogeneous Backgrounds", *IEEE Trans. on Aerospace and Electronic Systems*, vol. 32, pp. 84-97, Jan. 1996.
43. W.A. Hashlamoun and P.K. Varshney, "Near-Optimum Quantization for Signal Detection", *IEEE Trans. on Communications*, vol. 44, pp. 294-297, March 1996.
44. V.N.S. Samarasooriya and P.K. Varshney, "A Sequential Approach to Asynchronous Decision Fusion", *Optical Engineering*, vol. 35, pp. 625-633, March 1996.
45. S. Alhakeem and P.K. Varshney, "Decentralized Bayesian Detection with Feedback", *IEEE Trans. on Systems, Man and Cybernetics*, vol. 26, pp. 503-513, July 1996.
46. P.K. Varshney, "Scanning the Issue", Guest Editorial in the *Proceedings of the IEEE*, vol. 85, pp. 3-5, January 1997.
47. R. Viswanathan and P.K. Varshney, "Distributed Detection with Multiple Sensors: Part I - Fundamentals", Invited Paper in the *Proceedings of the IEEE*, vol. 85, pp. 54-63, January 1997.
48. V.N.S. Samarasooriya and P.K. Varshney, "Decentralized Signal Detection with Fuzzy Information", *Optical Engineering*, vol. 36, pp. 658-668, March 1997.
49. L.C. Ramac and P.K. Varshney, "Image Thresholding Based on Ali-Silvey Distance Measures", *Pattern Recognition*, vol. 30, pp. 1161-1174, July 1997.
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51. C.T. Yu and P.K. Varshney, "Sampling Design for Gaussian Detection Problems", *IEEE Trans. on Signal Processing*, vol. 45, pp. 2328-2337, Sept. 1997.
52. P.K. Varshney, "Multisensor Data Fusion", *Electronics and Communications Engineering Journal*, vol. 9, pp. 245-253, Dec. 1997.
53. C.T. Yu and P.K. Varshney, "Paradigm for Distributed Detection Under Communication Constraints," *Optical Engineering*, Vol. 37, pp. 417-426, February 1998.
54. C.T. Yu and P.K. Varshney, "Bit Allocation for Discrete Signal Detection", *IEEE Trans. on Communication*, vol. 46, pp. 173-175, February, 1998.
55. P.L. Chang and P.K. Varshney, "Integration of Optimal Routing and Flow Control in ATM Networks," *IEE Proc.- Comm.,* vol. 145, pp. 1-7, February, 1998.
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57. P.L. Chang and P. K. Varshney, "Node-oriented Optimal Flow Control Protocols for ATM Networks, *Proc. IEE-Communications*, vol. 146, pp. 171-179, June 1999.
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555. J. Bondarchuk, A. Trezza, D. J. Bucci and P. K. Varshney, 'Deterministic multi-sensor measurement adaptive birth using labeled random finite sets,' Proc. IEEE 26th Int. Conf. Inf. Fusion, July 2023.
556. Anthony Trezza, Donald J Bucci Jr, Pramod K Varshney, "On Gibbs Sampling Architecture for Labeled Random Finite Sets Multi-Object Tracking," Proc. IEEE 26th Int. Conf. Inf. Fusion, July 2023
557. S. Bulusu, V. Gandikota, and P.K. Varshney, "1-Bit Compressed Sensing with Local Sparsity Patterns," in IEEE International Symposium on Information Theory (ISIT), July 2023, pp. 1172-1177.
558. A. Trezza, A. Murray, A. Y. Rothschild, L. Rosenberg, D. J. Bucci and P. K. Varshney, 'Track-before detect using generic observation model labeled random finite sets,' Proc. IEEE Int. Conf. Radar, Nov. 2023
559. P Rajput, L Wu, MRB Shankar, PK Varshney, "Joint Transmit Precoders and Passive Reflection Beamformer Design in IRS-Aided IoT Networks," Proc. of 2024 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), April 2024.
560. Ziyang Lu, M Cenk Gursoy, Chilukuri K Mohan, Pramod K Varshney, "Learning-Based Resource Management in Integrated Sensing and Communication Systems," IEEE INFOCOM 2024-IEEE Conference on Computer Communications Workshop, May 2024.
561. Tang, Hanning; Shen, Xiaojing; Zhao, Hua; Wang, Zhiguo; Varshney, Pramod K., " Bures-Wasserstein Barycentric Coordinates with Application to Diffusion Tensor Image Smoothing," Proc. IEEE 27th Int. Conf. Inf. Fusion, July 2024.
562. Zhang, Mei; Shen, Xiaojing; Wang, Zhiguo; Varshney, Pramod K., "Robust Primal-Dual

Proximal Algorithm for Cooperative Localization in WSNs," Proc. IEEE 27th Int. Conf. Inf. Fusion, July 2024.

563. Fan, Mengchen; Geng, Baocheng; Li, Keren; Wang, Xueqian; Varshney, Pramod K. Interpretable Data Fusion for Distributed Learning: A Representative Approach via Gradient Matching, Proc. IEEE 27th Int. Conf. Inf. Fusion, July 2024.

564. Zhang, Guoxin; Liang, Yunfei; Wang, Cong; Yi, Wei; Ngo, Hien Quoc; Matthaiou, Michail; Varshney, Pramod K. Decentralized Direct Localization Based on Gauss-Newton Method in Multi-Sensor Networks," Proc. IEEE 27th Int. Conf. Inf. Fusion, July 2024.

RESEARCH GRANTS AND CONTRACTS:

1. "Electromagnetic Compatibility of Digital Systems", with H. Schwarzlander, Reliability and Compatibility Division, Rome Air Development Center, 1977-1978, $33,000.
2. "Integrated Voice-Data Communications", AFOSR/SCEEE Fellowship, 1979, $5,350.
3. "Integrated Voice-Data Communications", Senate Research Committee, Syracuse University 1979-1980, $3,500.
4. "Integrated Switching Techniques," Air Force Office of Scientific Research, 1980-1981, $10,000.
5. "Integrated Switching Techniques", Communications Division, Rome Air Development Center, 1981-1982, $25,000.
6. Baule Grant, College of Engineering, Syracuse University 1982, $4,100.
7. "Network Susceptibility Assessment", Communication Division, Rome Air Development Center, 1982-1983, $20,000.
8. "Packet Radio Networks", Communications Division, Rome Air Development Center, 1983, $14,500.
9. "Modeling of Oscillator Phase Instability", Surveillance Division, Rome Air Development Center, 1984, $25,000.
10. "Multiple Sensor Networks and Data Fusion," Surveillance Division, Rome Air Development Center, 1984, $50,000.
11. CASE Center Award, Syracuse University, 1984, $4,200.
12. Visit to India as a Guest Scientist, National Science Foundation, 1984-1985, $25,860.
13. "Modeling of Oscillator Phase Instability," Surveillance Division, Rome Air Development Center, 1985, $21,000.
14. "Multiple Sensor Networks and Data Fusion," Surveillance Division, Rome Air Development Center, 1985, $41,000.
15. "Complexity of AI Algorithms," with C.R.P. Hartmann, Command and Control Division, Rome Air Development Center, 1985, $85,799.
16. "Network Susceptibility Assessment," Communications Division, Rome Air Development Center, 1986, $50,000.
17. "Distributed Detection and Estimation," Senate Research Committee, 1986, $3,000.
18. "Network Susceptibility Evaluation," Rome Air Development Center, 1987, $50,000.
19. "Multiple Sensor Networks and Data Fusion," with D.D. Weiner, Rome Air Development Center, 1987, $150,000.
20. "Network Simulation Techniques," Rome Air Development Center, 1988, $50,000.

21. "Multiple Sensor Networks and Data Fusion," Rome Air Development Center, 1988, $90,000.
22. "Analysis of Parallel Algorithms," with C.R.P. Hartmann, Rome Air Development Center, $100,000.
23. "Sensor Fusion Algorithms," Southeastern Center for Electrical Engineering Education, $52,093.
24. "Bistatic Radar Analysis," Rome Laboratory, $199,690.
25. "Signal Processing Using Remotely Located Sensors," Southeastern Center for Electrical Engineering Education, $94,540.
26. "Expert Systems for Surveillance Radar," Kaman Sciences Corp., $79,000.
27. "Distributed Detection Theory and Data Fusion," AFOSR, $61,670.
28. "Investigation of Ambiguity Function and Multichannel Detection," Rome Laboratory, $25,645.
29. "Distributed Detection Theory and Data Fusion," AFOSR, $63,659.
30. "Sensor Fusion Algorithms and Performance Limits," Rome Laboratory, $300,000.
31. "Knowledge-based Interference Suppression/Avoidance System," (with D. Weiner), Rome Laboratory, $200,000.
32. Net HPCC: A Design Tool for High Performance Computing and Communication Systems, (with S. Hariri), $125,000, 1 ½ years, Rome Laboratory.
33. Design, Development, Benchmarking and Evaluation of Parallel Applications for High-Performance Embedded Systems, (with D. Weiner and A. Choudhary), $359,000, 2 years, Rome Laboratory.
34. Intergovernmental Personnel Assignment, $158,170, 2 years, Air Force Research Laboratory.
35. Image Fusion for Concealed Weapons Detection, $20,020, one year, Stiefvater Consultants, Research grant through the CASE Center.
36. Distributed Detection Theory and Data Fusion, $165,383, 3 years, AFOSR.
37. Sensor Fusion Algorithms and Performance Limits, $300,000, 3 years, Rome Laboratory.
38. Image Fusion for Concealed Weapons Detection, $20,020, one year, Stiefvater Consultants, Research grant through the CASE Center.
39. Support for the E3 EXPERT system (with D. Weiner), $15,000, Andro Consulting, Research grant through the CASE Center.
40. Multi-modality Image Fusion Study, $20,000, Eastman Kodak, Research grant through the CASE Center.
41. Distributed, Real-time Sensor Project, (with S. Taylor, T. K. Sarkar, S. K. Chin), $1.89 M, 1.5 years, DARPA/U.S. Space and Naval Warfare Systems Center.
42. Response of Complex Ecosystems to Atmospheric Deposition (with Driscoll, Costello, Johnson and Read) $1M, 3 years W. M. Keck Foundation.
43. Mobile Augmented Battlespace Visualization, (with K. Mehrotra and C. Mohan), $850,000, 5 years, MURI grant from Army Research Office.
44. Radar Signal Detection based on Bayesian Hierarchical Models and Image Analysis Techniques (with B. Chen), $183K, 2 years, AFRL.
45. Application of SAID Technologies to NASA's Earth Science Enterprise (with S. K. Chin), $1M, 4 years, NASA.

46. Adaptive Antennas and Diversity Techniques for Wireless Communication, (with T. K. Sarkar) $271,000, 5 years, National Science Foundation.
47. Millimeter Wave Imager, $17.8 K, 6 months, ITT Industries.
48. ASW Systems with Large Numbers of Advanced Autonomous Distributed Sensors, 21 K, 6 months, STTR project from Office of Naval Research via Alphatech Inc.
49. Multi-sensor Registration Engineering Support, $15 K, 3 months, Sensis Corp.
50. Spatial Multi-sensor Autonomous Registration Toolkit (SMART), $50K, Two years, ANDRO Computational Solutions, LLC.
51. Strategically Targeted Research in Intelligent Built Environmental Systems (with Khalita, Zhang, Tarlarides), $4,468,877, 3 years, Environmental Protection Agency.
52. Research on Data Fusion, $33828, ANDRO Computational Solutions via the CASE Center.
53. Strategically Targeted Research in Intelligent Built Environmental Systems (with Khalifa, Zhang, Tavlarides), $3,568,476, 3 years, Environmental Protection Agency.
54. Distributed Sensor Networks, AU$ 1.13M, Partner Investigator, Department of Education Science and Technology (DEST), Australia
55. Research on Data Fusion, $65,010, ANDRO Computational Solutions via the CASE Center.
56. Stochastic Resonance in Signal Detection and Human Perception, $30,000, 9 months, JHM Technologies.
57. Research on Data Fusion, $107,206, ANDRO Computational Solutions via the CASE Center.
58. Stochastic Resonance in Signal Detection and Human Perception, $350,000, 2 years, JHM Technologies.
59. Sensor Fusion for Personnel Detection, $85,000, 3 years, Department of the Army,
60. Detection and Tracking of Spatio-Temporal Phenomena: Moving Target in Crowded Environments, $200,000, 1.75 years, UT-Battelle / US Department of Energy.
61. Advanced Radar Data Fusion : Application of MIMO Radar Technology, $30,000, 0.5 years, ANDRO Computational Solutions, LLC.
62. UAV Operations in Civilian and Military Airspaces, $62,5000, 1 year, Digicomp Research Corporation.
63. Adaptive Models and Fusion Algorithms for Intelligent Information Exploitation, $750,000, 3 years, Air Force Office of Scientific Research.
64. Personnel Detection via Fusion of Heterogeneous Data, $240,000, 3 years, US Army Research Office.
65. Intelligent Sensor Networks for Improved Indoor Air Quality, $100,000, 1 year, Syracuse University / EPA
66. Centers for Advanced Technology (CAT) Program (with Shiu-Kai Chin), $4.0M, 4 years, NY State Office of Science, Technology, and Academic Research.
67. Research on Data Fusion, $98,872, ANDRO Computational Solutions via the CASE Center.
68. Fusion, Analysis, Simulation and Testing, $33,400, 4 months, Black River Systems.
69. Detection and Tracking of Spatio-Temporal Phenomena: Moving Target in Crowded Environments, $150,000, 2.75 years, UT-Battelle / US Department of Energy.

70. Centers for Advanced Technology (CAT) Program (with Gina Lee-Glauser), $4.0M, 4 years, NY State Office of Science, Technology, and Academic Research.
71. Strategically Targeted Research in Intelligent Built Environmental Systems (with Khalifa, Zhang, Tavlarides), $3,568,476, 2005-2009, Environmental Protection Agency.
72. Distributed Sensor Networks, AU$ 1.13M, Partner Investigator, Department of Education Science and Technology (DEST), Australia
73. Sensor Fusion for Personnel Detection, $85,000, 2006-2010, Department of the Army.
74. Detection and Tracking of Spatio-Temporal Phenomena: Moving Target in Crowded Environments, $150,000, 2006-2009, UT-Battelle / US Department of Energy.
75. Adaptive Models and Fusion Algorithms for Intelligent Information Exploitation (with Mehrotra and Mohan), $750,000, 2006-2009, Air Force Office of Scientific Research.
76. Personnel Detection via Fusion of Heterogeneous Data, $240,000, 2006-2009, US Army Research Office.
77. Centers for Advanced Technology (CAT) Program, $2.8M, 2008-2011, NY State Office of Science, Technology, and Academic Research.
78. Syracuse Center of Excellence in Environmental and Energy Systems (with Ed A Bogucz), $11.3 M, 2005-2010, Environmental Protection Agency.
79. Noise Enhanced Sensory Signal Processing, $735,000, 2009-2011, Air Force Office of Scientific Research.
80. The Syracuse University CASE Center Managed AFRL-IT Summer Faculty Program, $725,535, 2009-2011, US Air Force Research Labs/Rome.
81. Advancement of Intelligent Aerospace Systems (AIAS) for U.S. Air Force (with Mark Glauser), $863,250, 2008-2011, Clarkson University.
82. Cyber Superiority for Air Force Combatant Commanders: Integrated Air/Space/C2/Cyber Dynamic Spectrum Exploitation for Enhanced Situational Awareness (with Du), $40,070, 2009-2010, ANDRO Computational Solutions, LLC.
83. Multimodal Signal Processing for Personnel Detection and Activity Classification for Indoor Surveillance, $400,000, 2009-2013, Department of the Army.
84. The Syracuse University CASE Center Managed AFRL-IT Summer Faculty Program, $725, 535, 2009-2011, US Air Force Research Labs/Rome.
85. A Unifying Framework for Distributed Inference in Networked Systems: ARRA (with Biao Chen and Hao Chen), $350,000, 2009-2012, National Science Foundation.
86. Sensor Fusion Algorithm Research at ARL, $17,116, 2009, Booz Allen Hamilton, Inc.
87. Advanced Radar Data Fusion: Application of MIMO Radar Technology, Phase II (with R. Niu), Department of Defense, through Andro Computational Solutions, LLC, 2009-2011, $303,000.
88. MRI : Acquisition of a High Performance Computer Cluster Supporting Computational Science Research and Learning, National Science Foundation, CNS-0922644, $190,010; 2009-2012, Senior personnel for effort at Montclair State University, NJ
89. Forecasting Change and Societal Threats (with Hermann, Mohan), S.U. Chancellor's Leadership Grant, $100,000, 7/2009-6/2011.
90. Road Network Conflation Based on Radar Tracks (with Ruixin Niu), 12/2010-12/2013, Air Force Research Laboratory, $150, 000
91. Adaptive Compressed Sensing for Mission Prioritized Data Collection and Analysis (with M. Glauser), Leskiw Associates, 11/2011-7/2012, $46,000.

92. Dynamic Cross-Layer Routing using Cognitive Spectrum Allocation Techniques (with C. Mohan), $42,736, 4/2011-1/2012, Critical Technologies
93. Beyond Spectrum: Multiobjective Joint Optimization for Efficient Utilization of the Radio Frequency Transmission (with C. Mohan and W. Du), $394,280, 2010-2011, ANDRO Computational Solutions
94. Cyber Superiority for Air Force Combatant Commanders: Integrated Air/Space/C2/Cyber Dynamic Spectrum Exploitation for Enhanced Situational Awareness Phase II, $285,000, 2/2011-9/2012 ANDRO Computational Solutions, LLC.
95. Dynamic Information Collection and Fusion (with Biao Chen), $900,000, 2010-2015, University of Illinois.
96. Hard-soft Information Fusion (with C. Mohan and K. Mehrotra), $307,476, 2010-2013, Department of Army.
97. Adaptive Information Fusion and Sensor Management for Enhanced Situational Awareness (with R. Niu), $525,000, 2010-2013, Air Force Office of Scientific Research.
98. Centers for Advanced Technology (CAT) Program, $3.7M, 2011--2015, NY State Office of Science, Technology, and Academic Research.
99. Cognitive Radio Spectrum Management and Waveform Adaptation for Advanced Wideband Space Communication Systems, ANDRO Computation Solutions, 4/2012-1/2013, $33,000.
100. Automatic Modulation Classification, ANDRO Computation Solutions, 9/2012-9/2014, $185K
101. Compressive Sensing based Inference in Distributed Networks, NSF, 8/2013-7/2016, $324,915
102. Social Media Assisted Heterogeneous Information Fusion for Data-to-Decision Applications, US Army, 9/2013-9/2016, $225K
103. Fusion of Statistically Dependent Heterogeneous Information Sources, Army Research Office, 7/2014-1/2018, $412,890
104. EAGER: Measuring Continental Scale Anthropogenic Impacts on the Environment through Acoustics (with Susan Parks of Biology), 8/2013-7/2015, NSF $200K
105. Copula Based Uncertainty Modeling for Information Fusion, 5/2014-12/2014, Boston Fusion Corp., $40000.
106. A Framework to Implement the Cyber Survive and Recover Simulator (CSRS) Demo, 5/2014-9/2014, AFRL, $78261
107. Enhancement of Electronic Claims Adjudication and Management System (eCAMS), 11/2014-8/2015, $44,936.
108. CASE - The Center for Advanced Systems and Engineering, Empire State Development Corp., 7/2015-6/2016, $767,667.
109. Uncertainty Characterization Using Copulas (UC)2, Boston Fusion Corp., 10/2015-9/2017, $350,000.
110. High Quality/Low Dimension Data for Sensor Integration, ANDRO Computational Solutions, 7/2015-4/2016, $55,000.
111. Dynamic Data Driven Information Fusion for Situational Awareness (with Biao Chen), AFOSR, 10/2015-9/2019, $1.09 M.
112. CASE - The Center for Advanced Systems and Engineering, Empire State Development Corp., 9/2015-6/2020, $4,452,467.

113. Leveraging Massively Parallel Data Processing for Large-Scale Information Fusion with a GPU Cluster (with Jian Tang and Biao Chen), AFOSR, 9/2016-9/2017, $294, 638
114. Management of Mobile Phone Sensing via Sparse Learning (with Yingbin Liang and Makan Fardad), NSF, 9/2016-8/2019, $400,000
115. Asynchronous Network Signal Sensing and Classification (AMC), ANDRO, 1/2016-12/2017, $150,000.
116. Cyber-Domain Spectrum Exploitation (CyberSE), ANDRO, 1/2016-12/2017, $100,000.
117. Universal Multivariate Information Measures for Multisensor Inference (UMIMMI), Boston Fusion, $29,500, 7/2016-3/2017
118. High Quality/Low Dimension Data for Sensor Integration, ANDRO, $ 206,000, 9/2016-9/2018
119. Causal Inference for Situation Awareness (CISA), Lockheed Martin, $100,000, 7/2016-11/2016
120. Fundamental Limits of Learning (FunLOL), Lockheed Martin (with Yingbin Liang and Biao Chen), $299, 500, 9/2016-9/2017.
121. Contextual Reasoning for Object Identification, Novateur, $47501, 2/2016-1/2017
122. Syracuse University Planning Grant: I/UCRC for Alternative Sustainable and Intelligent Computing (with Qinru Qiu and Yanzhi Wang), NSF, $15000, 3/2017-2/2018
123. Multi-Modality Sensing and Information Fusion, AFOSR, $183,192. 8/2017-1/2019
124. Heterogeneous Data Fusion and UTM Simulation Tool for UAV Applications,(with others) Thales USA,$75K, 8/2017-8/2020
125. BLACK: Simultaneous Tracking and Optimal Resource Management (BLACK-STORM), Lockheed, $99,850, 10/2017-10/2018
126. Contextual Reasoning for Object Identification Phase II, Novateur, $300,000,4/2018-3/2020.
127. Universal Multivariate Information Measures for Multisensor Inference (UMIMMI) Phase II, Boston Fusion, $169,999, 9/2017-12/2019.
128. MicroCam: A Low Power and Privacy Preserving Multi-modal Sensor Platform for Occupancy Detection and Counting (with S. Velipasalar), ARPA-E, $1.2M, 5/2018-5/2021.
129. MicroCam: A Low Power and Privacy Preserving Multi-modal Sensor Platform for Occupancy Detection and Counting (with S. Velipasalar), NYSERDA, $96,113, 6/2018-5/2019.
130. Phase 1 IUCRC Syracuse University: Center for Alternative Sustainable and Intelligent Computing (ASIC) (with Q. Qiu and C. Mohan), NSF, $750,000, 9/2018-8/2023.
131. Program Income for Phase I IUCRC Syracuse University: Center for Alternative Sustainable and Intelligent Computing (with Q. Qiu and C. Mohan), SRC Inc., $50000, 9/2018-8/2019.
132. Autonomous UAVs for Rapidly Obtaining Tracking Results of High Accuracy (AURORA), Lockheed Martin, $99925, 10/2018-10/2019.
133. Program Income for Phase 1 IUCRC Syracuse University: Center for Alternative Sustainable and Intelligent Computing (with Q. Qiu and C. Mohan), Thales USA, $100,000, 9/2018-8/2020.
134. Sense, Analyze, Interpret and Decide (SAID), New York State Department of Economic Development, $244,000, 4/2019-3/2024.

135. Collaborative Low Altitude UAS Integration Effort (CLUE), Thales USA, $88,890, 8/2019-6/2020.
136. Excalibur IRAD, Lockheed Martin, $75,000, 1/2021-11/2022.
137. Decision Making and Inference in Networked Systems with Efficient Sensor Resource Management, Saab, Inc. $328,000, 7/2022-6/2024.

GRADUATE THESES SUPERVISED:

M.S. Theses

1. M. Yanilmaz, "An Approach to the Integration of Voice and Data Over Multiple Access Channels", Dec. 1981.
2. W.H. Debany, Jr., "Probability Expressions with Applications to Fault Testing in Digital Networks", Jan. 1983.
3. A.M. Kabakcioglu, "Heuristic Algorithms for Switching Function Minimization," March 1984.
4. K. Newport, "Topological Stability Criteria For Use in Analyzing and Designing Survivable Communication Networks", April, 1988.
5. Han Jun, "Distributed Binary Integration", April 1989.
6. D. Sikka, "A Distributed Artificial Intelligence Approach to Information Fusion and Classification", April 1989.
7. A.R. Joshi, "On the Performance Indices for Communication Networks", December 1990.
8. C. Tumuluri, "An Extension of the MRII Training Algorithm Incorporating Dempster-Shafer Theory of Evidential Reasoning," December 1992.
9. R. Haefner, "Ambiguity Function of Phase-Coded Pulse Waveforms for Bistatic Radar", (with D. Weiner), December 1995.
10. L.C. Ramac, "Image Thresholding Based on Ali-Silvey Distance Measures", December 1995.
11. V. Yongdhiraphand, "A Comparative Study of Character Recognition by Using Moment Techniques", February 1996.
12. T. Kasetkasem, "On Communication Structure Planning for Multisensor Detection Systems", May 1999.
13. H. Chen, "Registration of IR and MMW Images for Concealed Weapons Detection", May 2000.
14. A. Hasbun, "Effect of Quantization on Image Analysis Tools for Registration", (with K. Mehrotra and C.K. Mohan), May 2001.
15. L. Fenstermacher, "Multisensor Fusion Techniques Applied to Speaker Recognition", May 2002.
16. Qi Cheng, "Distributed Sequential Detection and Sensor Management, "(with C. Mohan and K. Mehrotra), April 2003.
17. Min Luo, "Fiducial marker-based multi-modality breast image registration", (with Andrzej Krol), July 2003.
18. Chintan Shah, "ICA Mixture Model Algorithm for unsupervised Classification of Multi/Hyperspectral Imagery", July 2003.
19. Amey Bordikar, "Monte Carlo simution of scatter in Single Photon Emission Computed Tomography", (with Andrzej Krol, Edward Lipson) September 2003.

20. Jie Yang, "Temporal Bayesian Networks," (with C. Mohan and K. Mehrotra), Dec. 2003.
21. Shuang Zuo, "Classification of Remote Sensing Data in the Presence of Uncertainty", July 2004.
22. Kashyap Balakrishnan, "Prevention of Node Selfishness in Mobile Ad hoc Networks", (with J. Deng), July 2004.
23. Ramesh Rajagopalan, "Path Planning with Evolutionary Algorithms", (with K. Mehrotra and C. Mohan), Dec. 2004.
24. Min Xu, "A New Change Detection Algorithm for Image Sequences with Varying Illumination," May 2005.
25. Ashok Sundaresan, "On the Robustness of Change Detection Algorithms to Registration Errors," May 2005.
26. Bhagavath Kumar, Performance Metrics and Binning Issues for Image Registration, May 2009.
27. Ilker Özçelik, Voice Activity Detection using Stochastic Resonance, June 2010, coadvised with Hao Chen.
28. Yujiao Zheng, Closed-Form CRLB for Source Localization Based on Quantized Data in Sensor Networks, February 2011, coadvised with Ruixin Niu.
29. Sandeep Gogineni, A Cross Layer Routing Protocol for Cognitive Radio Networks Using Channel Activity Tracking, May 2012. (co-advised with C.K. Mohan)
30. Ruoyu Li, Modulation Classification and Parameter Estimation in Wireless Networks, June 2012.

Ph.D. Dissertations

1. V.C. Vannicola, "Modeling and Properties of Modulated RF Signals perturbed by Oscillator Phase Instabilities and Resulting Spectral Dispersion," May 1982.
2. K. Sriram, "A Study of Multiplexing Schemes for Digitized Voice and Data", Sept. 1983.
3. I.Y. Hoballah, "On the Design and Optimization of Distributed Signal Detection and Parameter Estimation Systems", Nov. 1986.
4. M. Barkat, "On Adaptive Cell-Averaging CFAR Radar Signal Detection", April 1987.
5. Z. Chair, "On Hypothesis testing in distributed Sensor Networks," April 1987.
6. J. Evanowsky, "Efficient Error Models for Digital Communication Channels", April 1988.
7. M. M. Al-Ibrahim, "On Distributed Sequential Hypothesis Testing", Ph.D. Dissertation, Dec. 1989.
8. R. Vaidyanathan, "The R-PRAM: A New Model of Parallel Computation and its Applications to Sorting", (co-advised with C.R.P. Hartman) August 1990.
9. S. Al-hakeem, "Decentralized Bayesian Hypothesis Testing with Feedback", December 1990.
10. W. Hashlamoun, "Applications of Distance Measures and Probability of Error Bounds to Distributed Detection Systems", May 1991.
11. J. Michels, "Multichannel Detection Using the Discrete-Time Model-Based Innovations Approach", (co-advised with D. Weiner), May 1991.
12. T.C. Wang, "Tracking Algorithms for Maneuvering and Non-Maneuvering Targets", December 1991.
13. J. Han, "New Results in Distributed Detection", May 1992.

14. S. Dey, “Fairness and Flow Control in Computer Networks,” August 1992.
15. Lin Wu, “Performance Analysis of Carrier Sense Multiple Access Based Protocols for Single Hop, Multihop and Multichannel Networks”, February 1993.
16. M. Uner, “Conventional and Distributed CFAR Detection in Nonhomogeneous Background”, December 1993.
17. T. Tsao, “Radar Signal Detection and Estimation Using Time-Frequency Distribution”, (co-advised with D. Weiner) December 1994.
18. C.T. Yu, “Sampling and Quantizer Design for Hypothesis Testing Problems”, December 1994.
19. P.L. Chang, “Distributed Flow Control Protocols for ATM Networks”, August 1996.
20. V. Samarasooriya, “Decentralized Detection and Estimation with Fuzzy and Asynchronous Observations,” December 1996.
21. M. Smith, “Application of the VI Statistic to Radar CFAR Processing,” June 1997.
22. Wei-keng Liao, “Parallel Pipelined Computational Model for Space-Time Adaptive Processing”, (co-advised with A. Choudhary and D. Weiner) July, 1999.
23. Liane C. Ramac, “Wavelet Domain Image Fusion Algorithms with Applications”, May 2000.
24. Weihua Ye, “New Approaches to Multiuser Detection in DS/CDMA Systems”, May 2000.
25. Q. Zhang, “Efficient Computational Algorithms for the Design of Distributed Detection Networks”, December 2000.
26. Hua-mei Chen, “Mutual Information Based Image Registration with Applications”, May 2002.
27. Mohamed Bingabr, “Robust Transmission of DCT Coded Images over Wireless Channels”, August, 2002.
28. Stefan Robila, “Hyperspectral Image Processing Using Independent Component Analysis”, August 2002.
29. Youngki Hwang, “Design and Evaluation of Efficient Routing and Quality of Service Support for Wireless Ad-hoc Networks”, August 2002.
30. Hyungkeun Lee, “Efficient Techniques for Multimedia Transmission over Packet-Switched Cellular Networks”, December 2002.
31. Teerasit Kasetkasem, “Image Analysis Methods Based on Markov Random Field Models”, December 2002.
32. Sungwook Kim, “Adaptive On-line Bandwidth Management for QoS Sensitive Multimedia Networks,” December 2003.
33. Tsang-Yi Wang, “Distributed Fault-tolerant Classification Using Coding Theory,” December 2003.
34. Nojeong Heo, “Distributed deployment algorithms for mobile wireless sensor networks", May 2004.
35. Pakorn Watanchaturaporn, “Classification of Remote Sensing Images Using Support Vector Machines,” May 2005.
36. Mehmet Zubeyir Unlu, “Iterative deformable finite element model for nonrigid 3D PET/MRI breast image registration”, 2006. (co-advised with A. Krol and J. A. Mandel)
37. Qi Cheng, “Distributed fault detection for dynamic systems”, 2006.
38. Dazhi Chen, The Design and Evaluation of Contention-based Geographic Forwarding for Wireless Multi-hop Networks, 2007.

39. Hao Chen, Noise enhanced signal detection and estimation, 2007.
40. Ying Lin, Optimal decision rules for decentralized detection in resource-constrained wireless sensor networks, 2007 (co-advised with Biao Chen).
41. R. Rajagopalan, A Multi-objective Optimization Approach for Sensor Network Design, 2008 (Co-advised with Mehrotra and Mohan)
42. Min Xu, Image Registration and Image Fusion: Algorithms and Performance Bounds, August 2009 (Co-advised with Hao Chen)
43. Priyadip Ray, Control of False Discovery Rate in Signal Detection, October 2009
44. Onur Ozdemir, Distributed Estimation in Wireless Sensor Networks: Physical Layer Considerations, December 2009 (Co-advised with R.Niu)
45. Engin Masazade, Resource Aware Distributed Detection and Estimation of Random Events in Wireless Sensor Networks, July 2010, (coadvised with Mehmet Keskinoz)
46. Ashok Sundaresan, Detection, Estimation and Tracking of Spatio-Temporal Phenomena using Sensor Networks, December 2010.
47. Long Zuo, Conditional Posterior Cram´er-Rao Lower Bound and Distributed Target Tracking in Sensor Networks, December 2010, coadvised with Ruixin Niu.
48. Renbin Peng, Noise-Enhanced and Human Visual System-Driven Image Processing: Algorithms and Performance Limits, August 2011.
49. Satish Iyengar, Decision-making with Heterogeneous Sensors: A Copula-based Approach, October 2011.
50. Swarnendu Kar, Collaborative Estimation in distributed Sensor Networks. May 2013.
51. Yujiao Zheng, Distributed Estimation and Performance Limits in Resource-constrained Wireless Sensor Networks. January 2014
52. Arun Subramanian, Hypothesis Testing using Spatially Dependent Heavy-Tailed Multisensor Data, December 2014
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