

Moshe Kam, Ph.D, P.E.	Robert Quinn Professor of Electrical and Computer Engineering and ECE Department Head
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Education and Training

INSTITUTION	DEGREE	YEARS	FIELD OF STUDY
Tel Aviv University, Israel	B.S.	1972-76	Electrical Engineering
Drexel University, Philadelphia, PA	M.S.	1983-84	Electrical Engineering
Drexel University, Philadelphia, PA	Ph.D.	1984-86	Electrical Engineering

Positions and Employment (Drexel University)

1987-90	Assistant Professor of Electrical and Computer Engineering
1990-96	Associate Professor of Electrical and Computer Engineering
1990-97	Assistant Department Head, Electrical and Computer Engineering
1996- 2007	Sophomore Year Coordinator, College of Engineering
1996-2001	Professor of Electrical and Computer Engineering
2001-	Robert Quinn Professor of Electrical and Computer Engineering
2007-	Electrical and Computer Engineering Department Head

Volunteer Positions in IEEE

<i>Board of Directors and Major Committees</i>	
2003-2007	Member of the IEEE Board of Directors
2003-2004	Director, IEEE Region 2 (2001-2002, Director-Elect)
2004	Chair, Audit Committee
2005	Chair, Membership Development Committee
2005-2007	Member of the IEEE Executive Committee
2005-2007	Vice President , Educational Activities
2005-2009	Member, Educational Activities Board
2008-2009	Chair, Committee on Global Accreditation Activities
2008-2009	Member, Finance Committee
2008-2009	Chair, Committee on Global Accreditation Activities
2009	Chair, New Initiatives Committee
<i>Other Assignments</i>	
2007-2009	Chair, ad hoc committee on IEEE relationships with Eta Kappa Nu
1995-1998	Philadelphia Section Chair (98), Vice Chair (97), Treasurer (96), Secretary (95)
1994-2005	Associate Editor, IEEE Transactions on Systems, Man and Cybernetics
1997-2006	Branch Counselor, Student Day Chapter, Drexel University
1998-2001	Member, Paper Prize Committee

Volunteer Positions in Other Organizations

2008-	ABET Inc., Member of the Board of Directors
2005-2008	ABET Inc., Alternate Director
1997-2001	US DOJ Scientific Working Group on Document Examination (SWGDOC), Member
1994-2005	Pattern Recognition, Associate Editor
1994-1999	HKN Student Branch Drexel University, Counselor
1994-	TBII Student Branch Counselor, Drexel University

Honors and Recognitions

1990-1995	Presidential Young Investigator, National Science Foundation.
1991-1992	C. Holmes MacDonald Award for the Outstanding Young Electrical Engineering Educator, HKN.
1996	Engineering Achievement Award, Delaware Valley Engineers' Week Council
1999	Drexel University Research Award
2000	IEEE Third Millennium Award
2000	Drexel University Distinguished Faculty Award
2001	Fellow of IEEE "for theoretical contributions to Decision Fusion and Distributed Detection"
2006	Honorary Professor, South China Technical University

Selected Publications

Ram Achuthanandam; J. Quinn; R.J. Capocasale; P.J. Bugelski; L. Hrebien; and M. Kam: "Sequential univariate gating approach to study the effects of erythropoietin in murine bone marrow," *Cytometry Part A*, 73(8):702-14, 2008

S. Haney, M. Kam and L. Hrebien: "Detection of Heterogeneously Expressed Genes in Cancer," Proceedings of the 2008 IEEE International Workshop on Genomic Signal processing and Statistics, GENSiPS 2008, pp. 1-3, June 2008.

E. Stehle, M. Shevartalov, O. deGrandis, S. Mancoridis, and M. Kam: Task Dependency of User perceived Utility in Autonomic VoIP Systems," Proceedings of the Fourth International Conference on Autonomic and Autonomous Systems, ICAS 2008, pp. 248-254, March 2008.

J. Quinn; P. W. Fisher; R. J. Capocasale; Ram Achuthanandam; Moshe Kam; P. Bugelski; and Leonid Hrebien : "A Statistical Pattern Recognition Approach for Determining Cellular Viability and Lineage Phenotype in Cultured Cells and Murine Bone Marrow," *Cytometry Part A*, 71A: 612-624, 2007

L.H. Loo; S. Roberts; L. Hrebien; and M. Kam: "New criteria for selecting differentially expressed genes: Filter-based feature selection techniques for better detection of changes in the distributions of expression levels", *IEEE Engineering in Medicine and Biology Magazine*, vol. 26, no. 2, pages 17-26, 2007.

Mianyu Wang; N. Kandasamy; A. Guez; and M. Kam: "Distributed Cooperative Control for Adaptive Performance Management," *IEEE Internet Computing*, Volume 11, Issue 1, Pages 31-39, Jan.-Feb. 2007.

B. Hipszer; J. Joseph; and M. Kam: "Pharmacokinetics of intravenous insulin delivery in humans with type 1 diabetes," *Diabetes Technology and Therapeutics*, Volume 7, No. 1, pp. 83-93, February 2005.

J. Kopena; E. Sultanik; Gaurav Naik; I. Howley; M. Peysakhov; V.A. Cicirello; M. Kam; W. Regli: "Service-based computing on manets: enabling dynamic interoperability of first responders," *IEEE Intelligent Systems*, [see also *IEEE Intelligent Systems and Their Applications*] vol. 20, no.5, pp. 17- 25, Sept.-Oct. 2005.

V. Cicirello; M. Peysakhov; G. Anderson; Gaurav Naik; K. Tsang; W. Regli; M. Kam: "Designing dependable agent systems for mobile wireless networks," *Intelligent Systems*, *IEEE* [see also *IEEE Intelligent Systems and Their Applications*] , vol.19, no.5, pp. 39- 45, Sept.-Oct. 2004

Xiaoxun Zhu, Yingqin Yuan, Chris Rorres and Moshe Kam: "Distributed M-ary hypothesis testing with binary local decisions," *Information Fusion*, Volume 5, Issue 3, pages 157-167, September 2004.

Yingqin Yuan and M. Kam: "Distributed decision fusion with a random-access channel for sensor network applications," *IEEE Transactions on Instrumentation and Measurement*, Volume 53, Issue 4, pp. 1339-1344, August 2004.

Selected Articles on Forensic Handwriting (all in *Journal of Forensic Sciences*)

Title	Co-authors	Volume, year
Proficiency of Professional Document Examiners in Writer Identification	J Wetstein, R Conn	1994;39(1):5-14
Writer Identification by Professional Forensic Document	G Fielding, R Conn	1997;42(5):778-786

Examiners		
Effects of Monetary Incentives on Performance of Nonprofessionals in Document-Examination Proficiency Tests	G Fielding, R Conn	1998:43(5):1000-1004
Signature Authentication by Forensic Document Examiners	K Gummadidala, G Fielding, R Conn	2001;46(4):884-888

Recent Research Funding

Sponsor	Duration	Title	Funding
US Army CERDEC	2008-2009	CREW Network Centric Operations	\$500K
US DoD TSWG	2009-2010	Proficiency Testing for Forensic Documentation Examination	\$388K
DARPA/LMCO-ATL	2005-2008	Synthesis Adaptive Protocol by Selective Enumeration (with S. Mancoridis)	\$1580K
US Army CERDEC	2007-2008	Seamless Network Integration using IPv6	\$260
US Army CERDEC	2005-2007	Modeling and Simulation in Support of COMPOSER	\$1900K
National Security Agency	2006-2007	Information Assurance Fellowship Grant and Institutional Capacity Building (with Mun Choi and Kapil Dandekar)	\$214K

Student Supervision

Degree	Number of Student Graduated	Number of Students In Progress
B.S./M.S.	23	4
M.S.	27	4
Ph.D.	18	6

Recent Ph.D. Dissertations Supervised to Completion

Author	Year	Title
B. Hipszer	2008	A Mathematical Model of Glucose Metabolism
M. Wang	2007	A Decentralized Control and Optimization Framework for Autonomic Performance Management of Web-Server Systems
E. Lin	2006	Detection in Distributed Sensor Networks
J. Quinn	2006	Development of a Pattern Recognition Approach for Analyzing Flow Cytometric Data
R. Achuthanandam	2005	Identification of Regions of Difference in Flow Cytometric Data
Y-Q Yuan	2004	Decision Fusion in Distributed Detection and Bioinformatics
Lit Hsin Loo	2004	New Statistical Tests for Identifying Differentially Expressed Genes in DNA Microarray