

Short Bio

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Education:

1983 – 1985 Postdoctoral Associate at the Laboratory for Atomic and Solid State Physics, Cornell University
Ph.D. May 1983 Electrical Engineering, SUNY at Stony Brook, Stony Brook, NY 11794.
B. S. Electrical Engineering, Middle East Technical University, Ankara, Turkey.

Work Experience:

1977 - 1978 Teaching Assistant, Department of Electrical Sciences SUNY at Stony Brook.
1978 - 1983 Graduate Research Assistant, Department of Physics, SUNY at Stony Brook.
Spent one year at The Max Plank Institute for Solid State Physics at Stuttgart, W. Germany as part of Ph.D. research.
1983 - 1985 Postdoctoral Associate at the Laboratory for Atomic and Solid State Physics, Cornell University
1987 - 1997 Visiting Summer Scientist, Dept of Physics, SUNY at Stony Brook.
Visiting Summer Scientist, Dept of Physics, Brookhaven National Laboratory.
1985 - 1991 Assistant Professor, Department of Electrical Engineering The Ohio State University.
1991 - present Associate Professor, Department of Electrical & Computer Engineering, The Ohio State University.

Five Selected Publications:

1. “Relaxation of icosahedral--cage silicon clusters via. tight--binding molecular dynamics” F. S. Khan and J. Q. Broughton, Phys. Rev. B, **43** 11754 (1991).

2. “Parallel Decomposition of the Tight--Binding Fictitious Lagrangian Algorithm for Molecular Dynamics Simulations of Semiconductors” M. L. Yeh, J. Kim, and F. S. Khan, Computers in Physics, **9** 108 (1995).

3. “Extended Si 311 defects” J. Kim, J. W. Wilkins, F. S. Khan, and A. Canning, Phys. Rev. B, **55** 16186 (1997).

4. “Thermally activated reorientation of di-interstitial defects in silicon”, J. Kim, F. Kirchhoff, W. G. Aulbur, J. W. Wilkins, F. S. Khan and G. Kresse, Phys. Rev. Letters. (1999)
5. “Using emerging open specifications for enhancing XML web services to build a maintainable and secure health care information system”, Chris Weber, Sriram Seshadri, Furrukh Khan, Proceeding of the Eighth IASTED International Conference, Software Engineering Application, (2004)

Ten Selected Invited Talks

1. Fourth International Conference on Supercomputing, Santa Clara, CA. April 30--May 5, (1989).
2. Series of five tutorials on Security, Software Engineering, Distributed Computing, and XML, at the National Center for High Performance Computing, Taiwan, and The National Taiwan University, Aug. 30 – Sept. 8, (1999)
3. Day long course at the 16th Annual Review of Progress in Applied Computational Electromagnetics (ACES 2000, Monterey, CA, March 20-25, 2000). The topic of the course was “Next Generation Internet technologies and XML for electromagnetics applications”
4. Course at the Electromagnetic Code Consortium (EMCC) Annual Meeting and Multidisciplinary University Research Initiative (MURI) Reviews, Boeing Phantom Works, St. Louis MO, 9-11 May 2000
5. Colloquium at Hughes Research Laboratories in May 2000. Topic is “Security in Distributed Internet Scientific Applications”
6. Microsoft Tech Ed 2004 Conference, San Diego CA, May 23 – 28, 2004
7. MS-HUG (Microsoft Healthcare Users Group) and HIMSS (Healthcare Information and Management Systems Society) Tech Forum 2005, February 13-14, 2005, Dallas Texas
8. InfoWorksSOA Executive Forum, Nov. 7 -8 , 2005
9. IDE Alliance Master XML Series, Nov. 14-28, 2005
10. eScience Workshop, John Hopkins University, Oct. 13 – 15, 2006

Awards:

TopCAT 2004 “Top Contributor to Technology in Ohio” award finalist.

Fred H. Pumphery Distinguished Teaching Award, 1991, 1992, 1993, 1994. Presented by The Electrical Engineering Student body.

Charles E. MacQuigg Outstanding Teaching Award, 1992. Awarded by the College of Engineering, The Ohio State University.