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EDUCATIONAL RECORD

University of Illinois at Urbana-Champaign
Department of Electrical and Computer Engineering
Bachelor of Science, 1982. Master of Science, 1984. Doctor of Philosophy, 1987.

AREAS OF RESEARCH INTEREST

Embedded Medical Systems, Design and Analysis of Algorithms, Health Analytics.

WORK EXPERIENCE

- 1 Computer Science Department, UCLA**
Distinguished Professor and
Director of Embedded and Reconfigurable Computing (ER) Laboratory
Courtesy appt: Electrical Engineering Department
Center of SMART Health, Co-director
BRITE center on Minority Health Disparities, Co-directors
UCLA Wireless Health Institute, Co-founder
- 2 Department of Electrical and Computer Engineering, Northwestern University**
Assistant Professor (January of 1987-1991) Associate Professor (1991-1997)
Tenure (1993) Full Professor (1997-2000)
- 3 Central Data Corporation**
Test Engineer (1982)
- 4 IBM T.J. Watson Research Lab, Yorktown Heights**
Visiting Scientist for Physical Design (Summer 1988)
- 5 Leonardo Fibonacci Institute for the Foundations of Computer Science, Trento, Italy**
Co-Invited Lecturer/Researcher lectured with (1991)
- 6 IBM and a number of CAD companies**
Research collaboration and consulting (1990-2000)
- 7 Motorola**

Research collaboration and consulting (1994-2000)

- 8 **Monterey Design Systems**, (acquired by Synopsys in 2004)
Consulting and one of three original architects (1997-2000)
- 9 **Motorola**
Sabbatical as architect and designer of a reconfigurable digital camera chip: defining their high-level design methodology (academic year 1997-1998)

ENTREPRUNERSHIP

1. **Monterey Design**
Technical co-Founder & Consultant (1998-2001)
2. **Hierarchical Design, Inc** (acquired by Xilinx in 2004)
Founder & Consultant (2001-2004)
3. **MediSens Wireless, Co-founder in 2007**
Nova/Medisens wins the public prize for innovation at Health Valley Event, 2018.
4. **Bruin Biometrics, Co-founder in 2009**
2018 Best Innovation in Medical Technology Award
"This winner was a genuine game changer," Judges say
5. **WANDA, Founded in 2010**
Oncoverse: a joint venture of WANDA and Dignity Health was acquired in 2017

AWARDS/SOCIETIES

- 1 Member of Tau Beta Pi (National Engineering Honor Society) and Eta Kappa Nu (Electrical Engineering Honor Society)
- 2 Recipient of a 1987 NSF Engineering Initiation Award
- 3 Recipient of a 1988 Design Automation Library Award
- 4 Northwestern McCormick School of Engineering and Applied Sciences (MEAS)
1989/90 Faculty Teaching Honor Roll (given to best teachers)
- 5 Recipient of a 1991 Design Automation Library Award
- 6 Election to Senior Member Grade in IEEE (1992)
- 7 A number of Best Paper Awards and Distinguished paper awards (see detailed list of publication) e.g., in DAC-93 for "The Buffer Distribution Problem" (joint work with J.D. Cho)
- 8 Recipient of a 1994 ACM-SIGDA Scholarship Award (\$12,000)
- 9 Recipient of a 1995 ACM-SIGDA Scholarship Award (\$12,000)
- 10 **Fellow of IEEE** (1996) The citation reads: "For Contribution to Theory and Practice of VLSI Design"
- 11 Okawa Foundation Award.

EDITORIAL

- Editorial Board, Smart Health Journal, published by Elsevier 8/2016-present
- Founding Associate Editor (AE), IEEE Journal of Biomedical and Health Informatics (JBHI), 2014-present
- Guest editor, special issue CFP for the JBHI, “Emerging Wireless Body Area Networks (WBANs) for Ubiquitous Healthcare”, 2015-present
- Associate Editor, Transactions on Information Technology in BioMedicine, 2012 – present.
- Editor of the Journal of Microprocessors and Microsystems (MICPRO) by Elsevier Science, 2012 – present.
- Associate Editor, IEEE Transactions on Information Technology in Biomedicine (TITB), 2009 - 2011
- Guest editor, Special issue on Wireless Health, ACM Transactions on Embedded Computing, 2008-2009
- Guest editor, Special issue on Wireless Health, IEEE Transactions on Information Technology in Biomedicine (TITB), 2008-2009
- Associate Editor, IEEE Transactions on Computer-Aided Design of ICAS (TCAD) July 1993-2003
- Associate Editor, ACM Transactions on Design Automation of Electronic Systems (TODAES) 2000-2005
- Editorial board, Journal of Embedded Computing (JEC) by Cambridge International Science Publishing, 2003-present
- Associate Editor, IEEE Transactions on Computers, 2003-2008
- Associate Editor, IEEE Transactions on VLSI, 2003-2005
- Editorial Board of JOLPE - Journal of Low Power Electronics 2005-present
- Editorial Committee of the Journal Engineering Letters at at: <http://www.engineeringletters.com> 2005-present
- Editor, International Journal of Computer Applications in Technology (by UNESCO) 2000-present
- Advisory board, The CSI Journal on Computer Science and Engineering (CSIJCSE) 1999-present
- Editorial board, VLSI Design, 1995-2000
- Co-editor-in-chief, The International Journal of High-Speed Electronics, 1995-1999
- Editorial board, International Journals of Computer-Aided VLSI Design, 1989-1991

TECHNICAL COMMITTEES

- 1 Program committee of the First IEEE Great Lakes Symposium on VLSI, March 1991
- 2 Program committee of the Second Great Lakes Computer Science Conference, November 1991
- 3 Program committee of the IEEE International Conference on Computer-Aided Design (ICCAD-92)
- 4 Program committee of the IEEE International Symposium on Circuits and Systems (ISCAS-93)
- 5 Program committee of the IEEE International Conference on Computer-aided Design (ICCAD-93)
- 6 Program committee of the European Design Automation Conference (EDAC-94)
- 7 Program committee chair (layout and routing) of the IEEE International Conference on

- Computer-Aided Design (ICCAD-94)
- 8 Program committee chair (layout and routing) of the IEEE International Conference on Computer-Aided Design (ICCAD-95)
 - 9 Program committee co-chair (CAD) of the IEEE International Symposium on Circuits and Systems (ISCAS-96)
 - 10 Best-Paper-Award committee of the IEEE Transactions on Computer-Aided Design, 1996
 - 11 Program committee of the 1997 Great Lakes Symposium on VLSI (GLSVLSI-97), University of Illinois, Urbana
 - 12 Program committee of the 1997 European Design and Test Conference (ED & TC-97), Paris, France, March 1997
 - 13 Program committee (CAD) of the IEEE International Symposium on Circuits and Systems (ISCAS-97)
 - 14 Program committee chair of the 1997 International Symposium on Physical Design (ISPD-97)
 - 15 Panelist for the 1997 NSF CAREER Awards (subject: Design Automation)
 - 16 Best-paper-Award committee of the IEEE Transactions on Computer-Aided Design, 1997
 - 17 Program committee of the 1998 Great Lakes Symposium on VLSI (GLSVLSI-98), Lafayette, LA
 - 18 Program committee (CAD) of the IEEE International Symposium on Circuits and Systems (ISCAS-98)
 - 19 Conference chair of the 1998 International Symposium on Physical Design (ISPD)
 - 20 Best-Paper-Award committee of the IEEE Transactions on Computer-Aided Design, 1998
 - 21 Program committee of the 1999 Great Lakes Symposium on VLSI (GLSVLSI-99), Ann Arbor, MI
 - 22 Program committee of the 1999 Southwest Symposium on Mixed-Signal Design, April 11-13, Tucson, AZ
 - 23 Program committee (CAD) of the IEEE International Symposium on Circuits and Systems (ISCAS-99)
 - 24 Program committee of the Workshop on Reconfigurable Computing (WoRC'99) held in conjunction with PACT'99, October 12-16, Newport Beach, CA
 - 25 Program committee (place and route) of the IEEE International Conference on Computer-Aided Design (ICCAD-99) Nov 7-11, San Jose, CA
 - 26 Best-Paper-Award committee of the IEEE Transactions on Computer-Aided Design, 1999
 - 27 General co-chair of the 2000 Great Lakes Symposium on VLSI (GLSVLSI-2000) Chicago, IL
 - 28 Program committee of the International Symposium on Physical Design, April 2000, San Diego, CA
 - 29 Chair of the steering committee of the International Symposium on Physical Design (ISPD) April 2000, San Diego, CA
 - 30 Program committee of the 2000 Southwest Symposium on Mixed-Signal Design, February 28-29, San Diego, CA
 - 31 Steering, special session chair and program committee of the Workshop on System Level Interconnect Prediction (SLIP-2000) San Diego, CA
 - 32 Steering committee of the International Symposium on Quality of Electronic Design (ISQED-2000) March 21-22 2000, San Jose, CA
 - 33 Program committee chair (routing subcommittee) of the IEEE International Conference

- on Computer-Aided Design (ICCAD-2000) Nov 5-9, San Jose, CA
- 34 Best-Paper-Award committee, IEEE Transactions on Computer-Aided Design, 2000
- 35 Steering committee of the International Symposium on Quality of Electronic Design (ISQED 2001) March 2000, San Jose, CA
- 36 Chair of the steering committee of the International Symposium on Physical Design (ISPD) April 2001
- 37 Program committee of the International Conference on VLSI Design, January 3-7, 2001, Bangalore, India
- 38 Program committee of the Advanced Research in VLSI, March 14-16, 2001, Utah
- 39 Program committee of the Design Automation Conference (DAC) June 2001, Las Vegas
- 40 Best-Paper-Award committee of the IEEE Transactions on Computer-Aided Design, 2001
- 41 Steering committee of the International Symposium on Quality of Electronic Design (ISQED) March 2001, San Jose, CA
- 42 Chair of the routing committee of the International Conference on Computer-Aided Design (ICCAD) November 2001, San Jose, CA
- 43 Steering committee of the International Symposium on Quality of Electronic Design (ISQED) March 2002, San Jose, CA
- 44 Program committee of the Design Automation Conference (DAC) June 2002, New Orleans, LA
- 45 Chair of the steering committee of the International Symposium on Physical Design (ISPD) April 2002, CA
- 46 Tutorial chair of the International Conference on Computer-Aided Design (ICCAD) November 2002, San Jose, CA
- 47 Executive committee of the International Conference on Computer-Aided Design (ICCAD 2002)
- 48 Program committee of the Asia-Pacific Design Automation Conference (ASP-DAC 2003) Japan
- 49 Program committee of Field Programmable Gate Arrays (FPGA 2003)
- 50 Executive committee and the program vice-chair of the International Conference on Computer- Aided Design (ICCAD 2003)
- 51 Steering committee of the International Symposium on Quality of Electronic Design (ISQED 2003) March 2003, San Jose, CA
- 52 Program committee of DesignCon 2003, Santa Clara, CA
- 53 Program committee of the Asia and South Pacific Design Automation Conference (ASP-DAC 2003)
- 54 Technical program committee for the CODES-ISSS'03 Merged Conference, October 1-3, Newport Beach, CA
- 55 Advisory board of the International Program Committee (IPC) for CST 2003 (<http://www.iasted.org/conferences/2003/cancun/cst.htm>)
- 56 Program committee of the Asia-Pacific Design Automation Conference (ASP-DAC 2004) January 27-30, Minato-Mirai Yokohama
- 57 Executive committee and program chair of the International Conference on Computer-Aided Design (ICCAD 2004)
- 58 Steering committee of the International Symposium on Quality of Electronic Design (ISQED 2003), March 2004, San Jose, CA
- 59 Technical program committee for the CODES-ISSS'04 Merged Conference September 8-10, Stockholm, Sweden
- 60 Program committee of the International Symposium on Field-Programmable Gate Arrays (FPGA 2005) Monterey, CA

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