

# MAJID SARRAFZADEH

Computer Science Department  
UCLA  
3532C Boelter Hall  
Los Angeles, CA 90095  
Phone: (310) 794-4303 Fax: (310) 794-5056  
Email: [majid@cs.ucla.edu](mailto:majid@cs.ucla.edu)  
Home Page: <http://www.cs.ucla.edu/~majid/>  
Research Lab: <http://er.cs.ucla.edu/>

## 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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