

## Candidate for Chair

Jens Palsberg  
UCLA, University of California, Los Angeles, CA USA

### **BIOGRAPHY**

#### Academic Background:

Ph.D., University of Aarhus, 1992, Computer Science.

#### Professional Experience:

Professor, UCLA, University of California, Los Angeles, CA, 2003 – 2008;  
Professor, Purdue University, West Lafayette, IN, 1996 – 2003;  
Visiting Scientist, MIT, Cambridge, MA, 1995 – 1996.

#### Professional Interest:

Embedded systems; Compilers; Programming languages; Software engineering;  
Information security.

#### ACM Activities:

Vice-chair, SIGBED, 2007 – 2009;  
Secretary/Treasurer, SIGBED, 2005 – 2007;  
Program chair of POPL, SIGPLAN, 2010;  
Program chair of EMSOFT, SIGBED, 2008.

#### Membership and Offices in Related Organizations:

Vice Chair of the Computer Science Department, UCLA, 2005 – 2007;  
Associate Head of the Computer Science Department, Purdue University, 2002 – 2003.

#### Awards Received:

ACM: ACM Distinguished Speaker, 2006.  
Other: IBM Faculty Award, 2005; Okawa Foundation Research Award, 2003;  
National Science Foundation CAREER Award.

### **STATEMENT**

After four years as first secretary/treasurer and then vice-chair of SIGBED, I will be happy to serve as chair. My main goals as chair will be to continue the drive towards more members, particularly more student members, of SIGBED, to help cement EMSOFT's status as the leading conference on embedded software, and to find new ways to recognize excellence in our community, along with such existing awards as the Frank Anger award,

the SIGBED/EMSOFT best paper award, and the nomination of papers to the CACM Research Highlights track.

## Candidate for Chair

Wayne Wolf  
Georgia Institute of Technology, Atlanta GA, USA

### **BIOGRAPHY**

#### Academic Background:

Ph.D., Stanford University, 1984, Electrical Engineering.

#### Professional Experience:

Professor, Farmer Distinguished Chair, GRA Eminent Scholar, Georgia Institute of Technology, Atlanta GA, 2007 – 2008;

Professor, Princeton University, Princeton NJ, 1999 – 2007;

Member of Technical Staff, AT&T Bell Laboratories, Murray Hill, NJ, 1984 – 1989.

#### Professional Interest:

Embedded computing systems; Cyber-physical systems; Multimedia; VLSI.

#### ACM Activities:

Board member, SIGBED, 2003 – 2005.

#### Membership and Offices in Related Organizations:

Vice President for Finance, IEEE Council on EDA, 2006 – 2007;

Board of Governors, IEEE Circuits and Systems Society, 1998 – 2000;

Chair, IEEE CANDE, 1998 – 1999.

#### Awards Received:

ACM:Fellow, 2001;

Other: IEEE Fellow, 1998; IEEE Computer Society Golden Core, 2002;

ASEE Frederick E. Terman Award, 2003; IEEE Circuits and Systems Society Education Award, 2006.

### **STATEMENT**

Embedded computing is a relatively young field that is still defining itself. SIGBED can help to build the culture of embedded computing. SIGBED can also help to explain this field to the rest of the discipline and to non-computer scientists.

SIGBED was an important contributor to the creation of the major conferences in this field: Embedded Systems Week and Cyber-Physical Systems Week. SIGBED can continue to support these conferences and to build and support other meetings.

Cyber-physical systems is a relatively new research area that promises to extend our knowledge of how to connect computers to the physical world. SIGBED can play a leading role in the development of this field.

Student development is one important aspect of development of the field. Professional education is equally important to help bring practitioners up to speed with the rapid evolution of this field.

ACM is an international organization and SIGBED should continue to foster an international presence.

SIGBED should work with the appropriate IEEE entities (Computer Society, Real-Time Systems Committee, CEDA, etc.) to build the field.

## Candidate for Vice Chair

Christoph Kirsch  
University of Salzburg, Salzburg, Austria

### **BIOGRAPHY**

#### Academic Background:

Dr.Ing., Saarland University, 1999, Computer Science.

#### Professional Experience:

Professor, University of Salzburg, Salzburg, Austria, 2004 – Present;  
Postdoctoral Researcher, University of California, Berkeley, CA, USA, 1999 – 2004;  
Research Assistant, Max Planck Institute for Computer Science, Saarbruecken, Germany, 1996 – 1999.

#### Professional Interest:

Principled engineering of concurrent software systems; Embedded, real-time, and concurrent programming; Virtual execution environments.

#### Membership and Offices in Related Organizations:

General Co-Chair, ESWEEK, 2008;  
Co-Founder, EMSOFT, 2001;  
Member, IEEE, 2004.

#### Awards Received:

IBM Faculty Award, 2007.

### **STATEMENT**

SIGBED is still a relatively young special interest group with great potential. However, embedded systems research is a large and extraordinarily diverse area that still unnecessarily limits its impact on other fields as well as its synergetic effect when attracting talent and funding. If elected, I will encourage the emphasis on further developing a common identity of our field and improving the organization and quality of all SIGBED-sponsored events.

## Candidate for Vice Chair

Wang Yi  
Uppsala University, Uppsala, Sweden

### **BIOGRAPHY**

#### Academic Background:

Ph.D., Chalmers Univ of Technology, Sweden, 1991, Computer Science.

#### Professional Experience:

Full professor (chair holder) in embedded systems, Uppsala University, Sweden, 2009 – Present;

Full professor in real-time systems, Uppsala University, Sweden, 2000 – 2009;

Associate professor, Uppsala University, Sweden, 1994 – 2000.

#### Professional Interest:

Embedded systems design; Embedded software on multicore platforms; Sensor networks; Model checking of real-time systems; Theory of timed systems.

#### ACM Activities:

Executive Committee Member of EMSOFT, SIGBED, 2006 – 2009;

Program co-chair of EMSOFT 2006, SIGBED, 2006 – 2007.

#### Awards Received:

Recognition of Service Award, 2007.

### **STATEMENT**

If elected as a vice-chair of SIGBED, I will assist the chair of SIGBED and the SIGBED board to promote and extend the current SIGBED activities in particular, the SIGBED conferences and Journal publication. I have served as program chairs for several international conferences e.g. TACAS, FORMATS, EMSOFT, RTSS design and verification track, and an editor for IEEE transactions on computers. In co-chairing EMSOFT 2006 with professor Sang Lyul Min, I have taken an active role to establish EMSOFT as one of the top conferences on embedded systems.

While ACM is becoming the leading computing society worldwide, I think it is important for SIGBED to take initiatives in other parts of the world. I believe my connections with China, Korea and Europe, my track record in research, and my experiences in organization of academic events will help to develop SIGBED to be the leading community in embedded systems areas worldwide.

## Candidate for Secretary/Treasurer

Luca Carloni  
Columbia University, New York, NY, USA

### **BIOGRAPHY**

#### Academic Background:

Ph.D., UC Berkeley, 2004, Electrical Engineering and Computer Sciences.

#### Professional Experience:

Assistant Professor of Computer Science, Columbia University, New York, NY, USA, 2004 – 2009.

#### Professional Interest:

Embedded system design methodologies; Networked embedded systems; System-level design; System-on-chip architectures; Embedded software.

#### ACM Activities:

Associate Editor, ACM Transactions in Embedded Computing Systems, 2006 – 2009;  
Tutorial Chair, Embedded Systems Week (ESWEEK), 2008 – 2009;  
Publication Chair, ACM/IEEE International Symposium on Networks, 2008 – 2009;  
Industrial Liaison Chair, ACM Conference on Embedded Software, 2006.

#### Membership and Offices in Related Organizations:

Member, IEEE, 1996 – 2009.

#### Awards Received:

Alfred P. Sloan Foundation Research Fellow, 2008, National Science Foundation CAREER Award, 2006; UC Berkeley Demetri Angelakos Memorial Achievement Award, 2002.

### **STATEMENT**

If elected as SIGBED secretary I will work with the Chair and Co-Chair in continuing the activity of our predecessors to improve the status of the organization particularly with the goal of increasing student membership, international collaborations, and participation from industry professionals.

## Candidate for Secretary/Treasurer

Stavros Tripakis  
University of California, Berkeley, CA USA

### **BIOGRAPHY**

#### Academic Background:

Ph.D., University of Grenoble, 1998, Formal verification.

#### Professional Experience:

Visiting Associate Research Engineer, University of California, Berkeley, CA,  
2009 – Present;

Research Scientist, Cadence Research Labs, Berkeley, CA, 2006 – 2008;

Research Scientist, Verimag Laboratory, CNRS, Grenoble, France, 2000 – 2006.

#### Professional Interest:

Modeling, analysis and implementation of embedded systems; Component-based design and system integration; Formal verification and testing; Real-time, concurrent and multicore systems; Decentralized observation and control.

### **STATEMENT**

I am honored to be nominated for this office. I will do my best to perform my duties as Secretary-Treasurer.

I will also work towards:

- (1) helping embedded systems become a more coherent scientific field;
- (2) establishing bridges to adjacent communities and fields of computer science and engineering; and
- (3) a more broad and effective dissemination of research in our community.