IEEE ISVLSI 2018, July9-11, 2018
IEEE Computer Society Annual Symposium on VLSI

Hironori Kasahara, Ph.D., IEEE Fellow

IEEE Computer Society President 2018

Professor, Dept. of Computer Science & Engineering

Director, Advanced Multicore Processor Research Institute

Waseda University, Tokyo, Japan

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1980 BS, 82 MS, 85 Ph.D. , Dept. EE, Waseda Univ.
1985 Visiting Scholar: U. of California, Berkeley
1986 Assistant Prof., 1988 Associate Prof., 1997, Waseda Univ., Now Dept. of Computer Sci. & Eng.
1989-90 Research Scholar: U. of Illinois, Urbana-Champaign, Center for Supercomputing R&D
2004 Director, Advanced Multicore Research Institute, 2017 member: the Engineering Academy of Japan and the Science Council of Japan

2005 STARC Academia-Industry Research Award
2008 LSI of the Year Second Prize
2008 Intel AsiaAcademic Forum Best Research Award
2010 IEEE CS Golden Core Member Award
2014 Minister of Edu., Sci. & Tech. Research Prize
2015 IPSJ Fellow
2017 IEEE Fellow, IEEE Eta Kappa Nu

Reviewed Papers: 216, Invited Talks: 162, Granted Patents: 43 (Japan, US, GB, China), Articles in News Papers, Web News, Medias incl. TV etc.: 584

Committees in Societies and Government 255
IEEE Computer Society President 2018,
IEEE CS: BoG(2009-14), Executive Committee(2017-Multicore STC Chair (2012-), Japan Chair (2005-07),
IPSJ Chair: HG for Magazine. & J. Edit, Sig. on ARC.
【METI/NEDO】 Project Leaders: Multicore for Consumer Electronics, Advanced Parallelizing Compiler, Chair: Computer Strategy Committee
【Cabinet Office】 CSTP Supercomputer Strategic ICT PT, Japan Prize Selection Committees, etc.
【MEXT】Info. Sci. & Tech. Committee, Supercomputers (Earth Simulator, HPCI Promo., Next Gen. Supercomputer K) Committees, etc.

IEEE CS President & BoG would like to thank ISVLSI 2018 Organizing Committee for their hard efforts and all authors, reviewers, and participants

ISVLSI 2018 Organizing Committee

General Chairs: Wei Zhang, Jason Xue, Zili Shao

TPC Chairs: Hai Li, Yu Wang, Wujie Wen

Special Session Chairs, Bei Yu, Yuan-Hao Chang

Web Chair: Theocharis Theocharides

Student Research Forum Chairs: Anupam Chattopadhyay, Zheng Wang

Publication Chairs: Mahdi Nikdast, Chenchen Liu

Publicity Chairs: Guangyu Sun, Muhammad Shafique, Jingtong Hu, Masaaki Kondo, Chun-Yi Lee, Dhruva Ghai

Financial Chair: Duo Liu

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Local Arrangement Chairs: Nan Guan, Ray Chak-Chung Cheung

Industrial Liaison Chairs: Wei Zhang, Jürgen Becker, Zhihong Wu,

Steering Committee: <Chair> Jürgen Becker <Vice-Chair> Saraju P. Mohanty

Hai (Helen) Li, Lionel Torres, Michael Hübner, Nikos Voros, Ricardo Reis, Sandip Kundu, Sanjukta Bhanja, Susmita Sur-Kolay, Vijaykrishnan Narayanan

IEEE Computer Society BoG (Board of Governors) Feb.1, 2018

New Executive Director: Ms. Melissa Russell from June 22.
Optical Society (OSA) : Chief Meetings and Industry Officer

https://www.computer.org/web/cshistory/officers-2018

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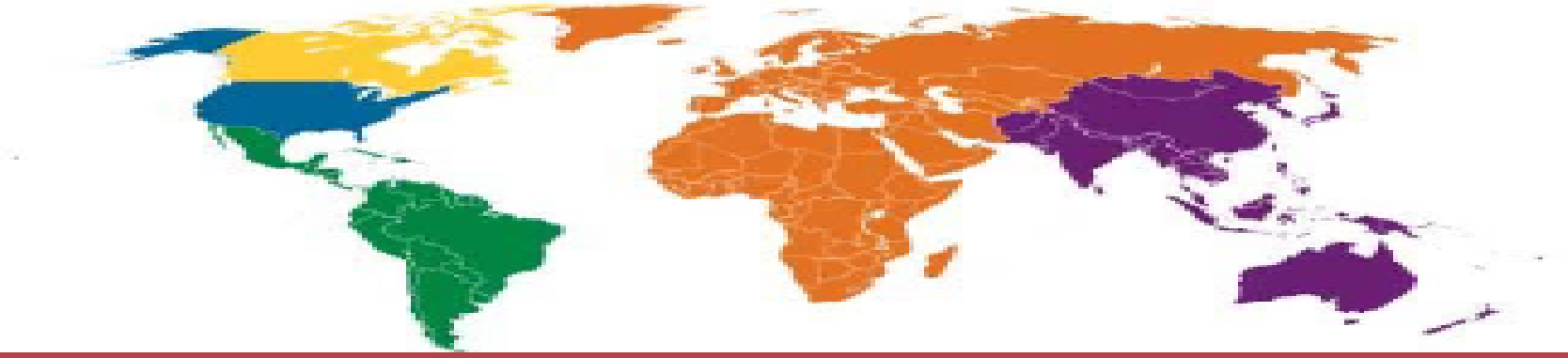
60,000+ members, volunteer-led organization,
200 technical conferences, 17 scholarly journals
and **13 magazines, awards program,**
Digital Library with more than 550,000 articles and papers ,
400 local and regional chapters, 40 technical committees,

- Region 1 (Northeastern US)
- Region 2 (Eastern US)
- Region 3 (Southern US)
- Region 4 (Central US)
- Region 5 (Southwestern US)
- Region 6 (Western US)
- Region 7 (Canada)
- Region 8 (Africa, Europe, Middle East)
- Region 9 (Latin America)
- Region 10 (Asia and Pacific)

- IEEE-USA (Regions 1-6)



IEEE CS Awards are presented in June BoG Meeting or COMPSAC

June 7, 2018, BoG in Phonix

IPSJ/IEEE-CS Young Computer Researcher Award

For members of the IPSJ and the IEEE-CS

The First Award Ceremony:

COMPSAC2018, July 23-27, NII, Tokyo

https://ieeecompsac.computer.org/2018/

Bjarne Stroustrup
2018 Computer Society Computer Pioneer Award
Columbia University

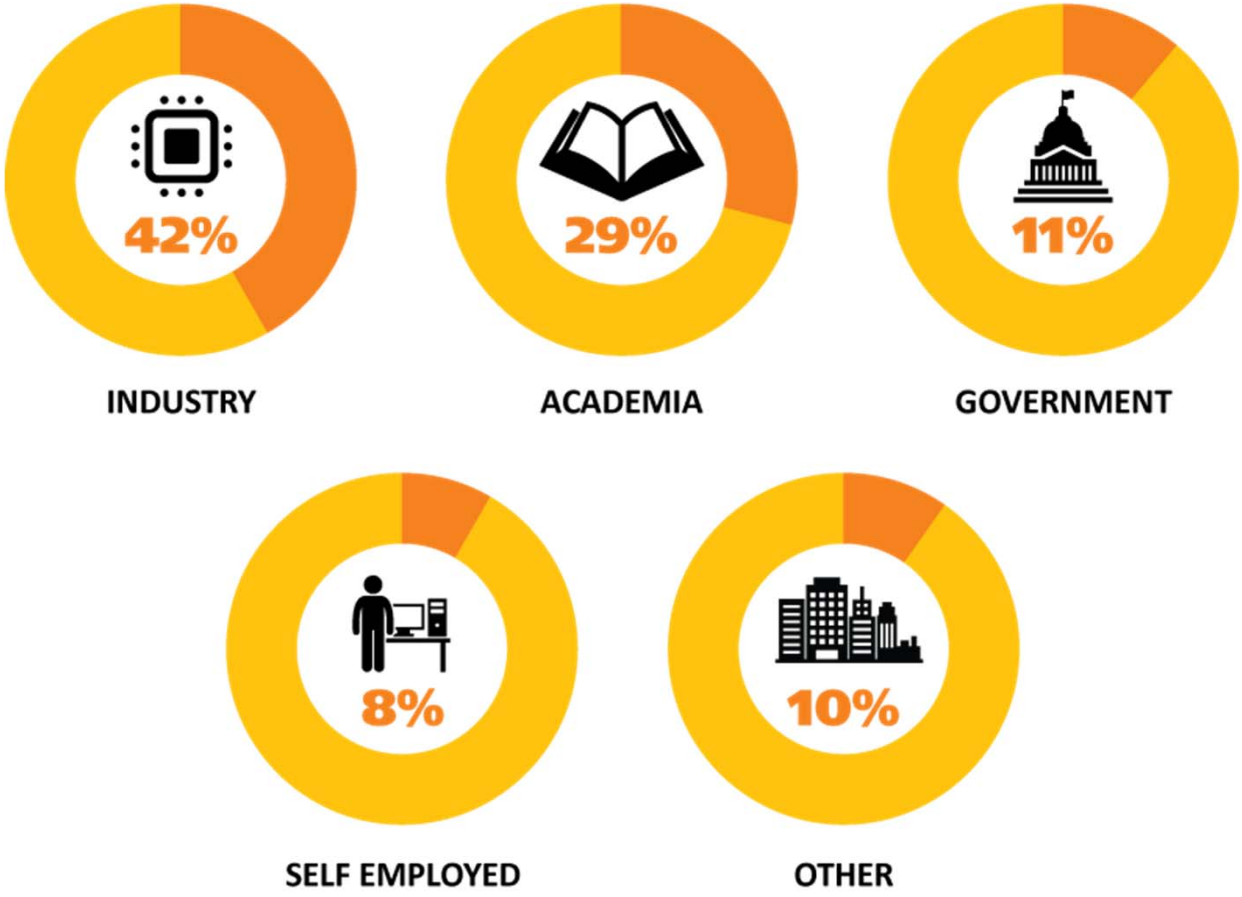
Masaru Kitsuregawa
Director General of NII, Past President of IPSJ

Margaret Martonosi
2018 Computer Society Technical Achievement
Princeton University

Dejan Milojicic
CS President 2014
HP Labs
CS 2022 Report

IEEE

IEEE Computer Society Members



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https://www.computer.org/web/education/multicore-video-series#

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Multicore Video Series

- Automatic Parallelization: David Padua
- Autoparallelization for GPUs: Wen-mei Hwu
- Dependences and Dependence Analysis: Utpal Banerjee
- Dynamic Parallelization: Rudolf Eigenmann
- Instruction Level Parallelization: Alexandru Nicolau
- Multigrain Parallelization and Power Reduction: Hironori Kasahara
- The Polyhedral Model: Paul Feautrier
- Vector Computation: David Kuck (Computer Pioneer)
- Vectorization: P. Sadayappan
- Vectorization/Parallelization in the IBM Compiler: Yaoqing Gao
- Vectorization/Parallelization in the Intel Compiler: Peng Tu
- Roundtable Discussion by all presenters

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Approximate time = 12 hours

- PDH: 12.0
- CEU: 1.2

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Vectorization
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Vectorization/Parallelization in the IBM Compiler
Yaoqing Gao


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Peng Tu


Roundtable Discussion
All Presenters

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Professionals in any industry that demands real-time processing, high performance, and speed will find these videos an important tool for getting better results from their multicore processing systems and future-proofing their applications.

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www.computer.org/multicore-video

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Toward 2018

1. Refining content and services to further improve the satisfaction of CS members;
2. Considering an incentive for volunteers to further accelerate CS activities and promptly provide technical benefits for people around the globe;
   To express appreciation to volunteers:
   CS Point (Mileage) System: Annual & Life Time Honor,
   Premier Seating, Premier Registration, Distinguished Reviewer, etc
3. Offering more attractive services for practitioners in industry;
4. Providing the world's best educational content and historical treasures for future generations, which only the CS can create with our pioneering researchers (for example, the Multicore Compiler Video Series found at www.computer.org/web/education/multicore-video-series);
5. Thinking about sustainable membership fees while considering the diversity of economic situations within the 10 regions;
6. Cooperating with other IEEE societies and sister societies in a timely and efficient manner;
7. Intelligibly introducing the latest computer-related technologies to younger generations, including children, so that they can realize their technological dreams.