

IEEE Computer Society

Hironori Kasahara, Ph.D., IEEE Fellow:

IEEE Computer Society President 2018

Professor, Dept. of Computer Science & Engineering

Director, Advanced Multicore Processor Research Institute

Senior Executive VP, Waseda University, Japan

URL: <http://www.kasahara.cs.waseda.ac.jp/>



1980 BS, 82 MS, 85 Ph.D. , Dept. EE, Waseda Univ.
1985 Visiting Scholar: U. of California, Berkeley,
1986 Assistant Prof., 1988 Associate Prof., 1989-90
Research Scholar:U. of Illinois, Urbana-Champaign,
Center for Supercomputing R&D, 1997 Prof., 2004
Director, Advanced Multicore Research Institute,
2017 member: the Engineering Academy of Japan
and the Science Council of Japan
2018 Nov. Senior Vice President, Waseda Univ.

1987 IFAC World Congress Young Author Prize
1997 IPSJ Sakai Special Research Award
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, Eta Kappa Nu

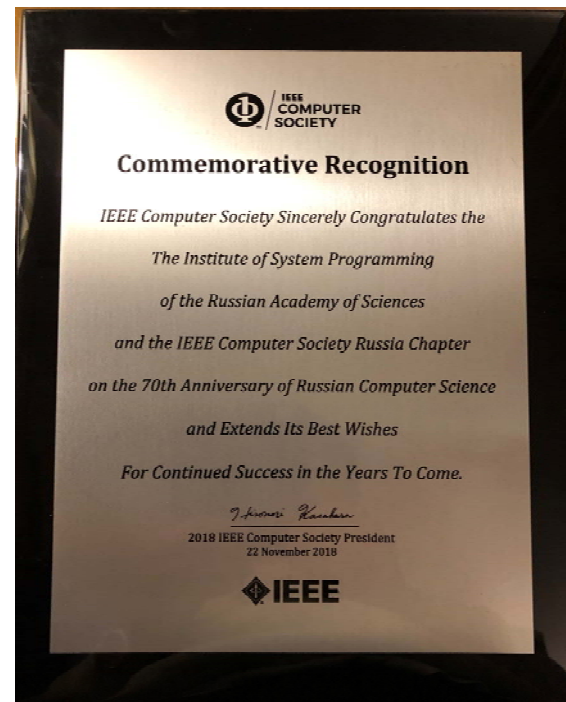
Reviewed Papers: 216, Invited Talks: 162, Granted
Patents: 43 (Japan, US, GB, China), Articles in News
Papers, Web News, Medias incl. TV etc.: 584

Committees in Societies and Government 255
IEEE Computer Society: President 2018, 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.

Congratulations for the 70th Anniversary of Russian Computer Science

IEEE Computer Society would like to congratulate the 70th Anniversary of the Russian Computer Science and the conference of the Institute of System Programming of the Russian Academy of Sciences with distinguished people including

- the Director of the Institute, the Russian Academy of Sciences, Professor Arutyun Avetisyan,
- Computer Pioneers: Dr. Tamara Alexandridi and Dr. Yuri Rogachev
- IEEE CS Russian Chair Prof. Sergei Prokhorov,
- and the all Russian Computer Scientists.



2018 IEEE CS BoG & ExCom



**BoG:
Board of
Governors**











Executive Committee

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



IEEE Computer Society

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 6 (Western US)
 Region 2 (Eastern US)	 Region 7 (Canada)
 Region 3 (Southern US)	 Region 8 (Africa, Europe, Middle East)
 Region 4 (Central US)	 Region 9 (Latin America)
 Region 5 (Southwestern US)	 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



Bjarne Stroustrup: Morgan Stanley & Columbia Univ. **2018 IEEE Computer Society Computer Pioneer Award** **IEEE COMPSAC2018 Keynote & Award Ceremony**



**July 26, 2018, Keynote,
Hitotsubashi Hall**



**July 25, 2018 Award Ceremony
Rihga Royal Hotel Tokyo**



Margaret Martonosi: Princeton Univ.
2018 Computer Society Technical Achievement Award
IEEE COMPSAC2018 Keynote & Award Ceremony



**July 24, 2018 COMPSAC Reception
Gakushi Kaikan, Tokyo, Japan**



**July 24,
2018
Keynote
Hitotsubashi
Hall**



IEEE Eta Kappa Nu (HKN) Japan First Initiation Ceremony for Waseda Univ. Student Chapter Mu Tau on July 25, 2018, in COMPSAC

IEEE HKN: Prof. Paolo Montuschi (Polytechnic Univ. of Turin),

IEEE Directors: John Walz (CS President 2012), Dejan Milojicic (CS President 2014)

CS Presidents: Sorel Reisman 2011 (COMPSAC Standing Committee Chair), Roger Fujii 2016,

Hironori Kasahara 2018, Cecilia Metra 2019, **IEEE Japan Office Director:** Iwao Hyakutake,

Waseda U. :Past President Prof. Katsuhiko Shirai, **CS Past-Chair** Prof. Keiji Kimura,

CS Japan Chair Prof. Kazu Yoshioka, **CS Japan Past-Chair** Prof. Hiro Washizaki,

Polytechnic Univ. Turin HKN Student Chapter Leaders, Waseda Univ. HKN Student Chapter Leaders



Mu Tau Chapter 1st Activity:
Paolo's talk on July 29, at Waseda U.



IEEE Young Professionals Panel on July 25

**Panelists: CS Presidents: Roger Fujii, 2016(Moderator); John Walz, 2012;
Dejan Milojcic, 2014; Hironori Kasahara, 2018; Cecilia Metra, 2019**
Planned by IEEE Tokyo Young Professionals Chair Dr. Mayumi



July 25, 2018 COMPSAC YP Panel

Panel Title

How joining a professional society can be beneficial to the early and ongoing career development of Young Professionals



IEEE CS Baidu MoU Ceremony, 15:30-18:00 on July 23, 2018 at Waseda Univ. Green Computing Center, Tokyo, Japan

CS Presidents: Sorel Reisman 2011 (COMPSAC Standing Committee Chair);
John Walz 2012 (IEEE Director); Dejan Milojicic 2014 (IEEE Director);
Roger Fujii 2016; Hironori Kasahara 2018; Cecilia Metra, 2019; **Vice President:** Andy Chen,
IEEE Japan Office Director; Iwao Hyakutake, CS Beijing Office Specialist; Annette Jiang
Baidu: Haizhu Dai, Product Manager; Hanjun Zhao, Product Manager; Jun Huan, AI scientist



Bob Ramakrishna Rau Award Lunch in MICRO51 in Fukuoka Japan on Oct. 23, 2018.

**ACM/IEEE CS Micro51 with record high 706 Participants
was operated by CS this year.**



**Rau Award Winner Dr. Ravi Nair,
Rau Award Chair Dr. Kemal
Ebcioglu & CS President Hironori
Kasahara**



**General co-chairs Profs Koji Inoue & Mark Oskin with CS distinguished
researchers and ACM SIGARCH CARE member in Banquet.**

Cooperating with other IEEE societies and international sister societies

CCF (Chinese Computer Forum) CNCC (China National Computer Congress), Hangzhou on Oct. 25-27.

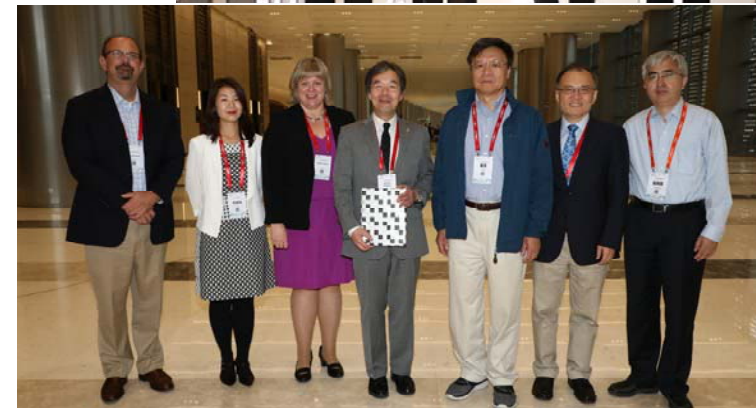
CCF has 40K members. CNCC had about 8000 participants inviting IEEE CS, ACM, IPSJ, KIISE, Hong Kong Computer Society, Dr. Robert Elliot Kahn and Prof. Kathy Yelick.



ACM CEO Vicki,
President Cherri, CS
ED Missy, CCF
Secretary General Zide
Du & CS President
Hironori



CCF/CS
Young
Computer
Scientists
Award
Winners



CCF Leaders &
CS representatives

CS HPC Award Ceremony on Nov. 13 in SC2018, Dallas having 13,000 participants

ACM/IEEE-CS Ken Kennedy Award
Prof Sarita Adve

Seymour Cray Award
Dr. David E Shaw



Sidney Fernbach Award
Dr. Landa Petzalt



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David Padua



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Utpal Banerjee



Instruction Level Parallelization
Alexandru Nicolau



The Polyhedral Model
Paul Feautrier



Vectorization
P. Sadayappan



Vectorization/Parallelization in the Intel Compiler
Peng Tu



Autoparallelization for GPUs
Wen-mei Hwu



Dynamic Parallelization
Rudolf Eigenmann



Multigrain Parallelization and Power Reduction
Hiromori Kasahara



Vector Computation
David Kuck



Vectorization/Parallelization in the IBM Compiler
Yaoqing Gao



Roundtable Discussion
All Presenters

Individual Videos:

- + IEEE CS Members: \$30
- + Nonmembers: \$125

Full Series:

- + IEEE CS Members: \$195
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Self-Paced Learning:

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- Nonmember: \$1,000

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See individual videos below.

For questions, please contact
certification@computer.org.

www.computer.org/multicore-video

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