

IEEE TCCA Business Meeting

HPCA 2018
Vienna, Austria

Feb 26, 2018

Agenda

- TCCA Overview
- HPCA 2018
 - GC: Mike Gschwind
 - PC: Yuan Xie
- HPCA 2019
 - 25th anniversary
 - GC: Ahmed Louri & Guru Vankataramani
 - PC: Rajeev Balasubramonian & Viji Srinivasan
- HPCA 2020 and Beyond
- ISCA 2018 and 2019
- Reviewing Reviewing Committee

Thank you!



Dean Tullsen
TCCA Chair (2015-2017)

New TCCA Leadership

as of May 1, 2017

Chair: Lieven Eeckhout

Past Chair: Dean Tullsen

Newsletter Chair: Martha Kim

Awards Chair: Natalie Enright Jerger

CGO/PPoPP Liaison Chair: Vijay Janapa Reddi

Diversity Chair: Daniel A. Jiménez

Antonio Gonzalez

Mark Hill

David Kaeli

John Kim

Hsien-Hsin Lee

Gabriel Loh

Onur Mutlu

Per Stenström

Josep Torrellas

Tom Wenisch

Carole-Jean Wu

Lixin Zhang

What IEEE TCCA does

Conference sponsorship

- Sponsorship and leadership of HPCA (100%)
- Co-sponsorship and co-leadership of ISCA (50%)
- (Partial) sponsorship of other conferences incl. PACT (24%), ISPASS (50%), IISWC (100%), ICCD, SBAC-PAD (25%), ANCS (34%), COOLCHIPS (50%), FCCM (100%), NANOARCH (50%)

Membership benefits

- Student travel grants, child care support, travel companion support, newsletter

Awards

Other projects and issues important to the computer architecture community

- Lots of joint projects with ACM SIGARCH

TCCA is here for you, the community – let us know your ideas/suggestions!

New initiatives

New website

- Increase our online presence

Newsletter [Martha Kim]

- Bi-monthly update & RSS feed
- Announce recent PhD graduates

Awards [Natalie Enright Jerger]

- HPCA Test of Time Award
- SIGARCH/TCCA Outstanding Dissertation Award

Organizational issues

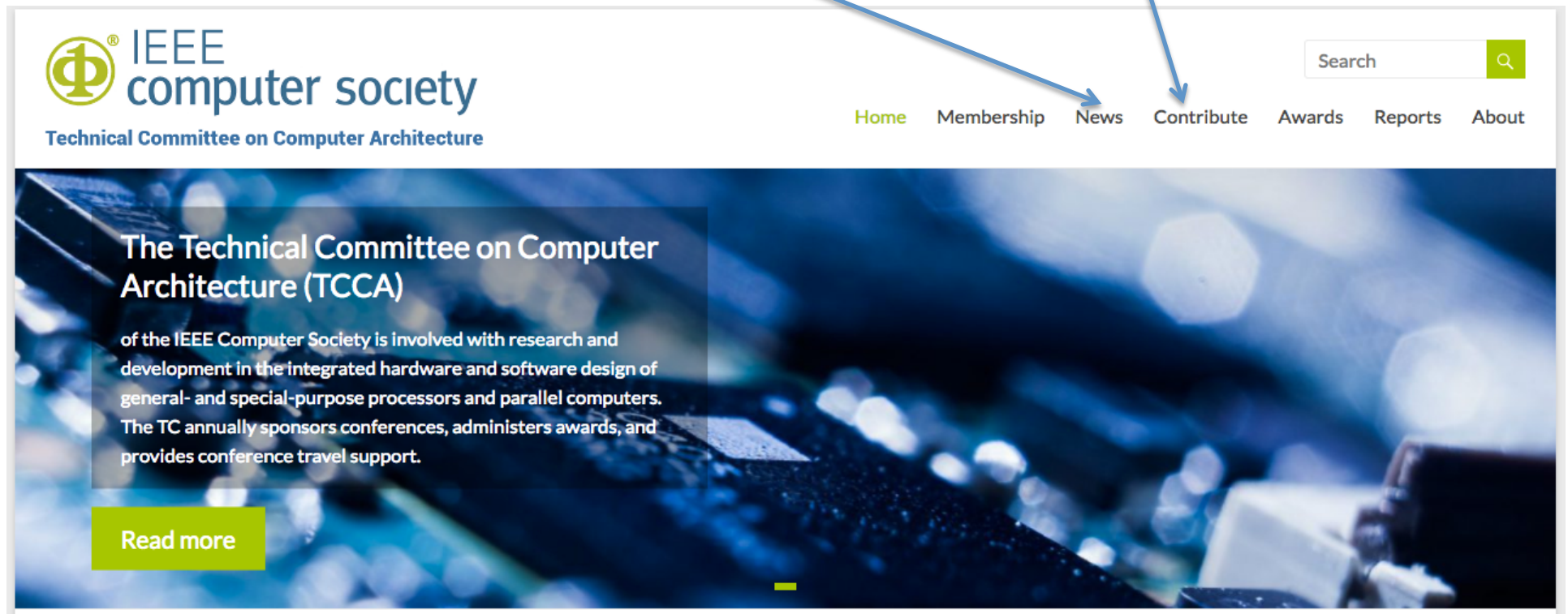
- Strengthen partnership with ACM SIGARCH
- Specific task portfolio per EC member
- Best practices for conference organizers
- Rules for child care and companion assist programs

New Website: <http://ieeetcca.org>

Submit announcements (tool, book, award, event, study, thought/suggestion), calls for papers and participation using web form

Subscribe to newsletter

More to come...



Subscribe to our newsletter

Stay in touch with TCCA

- Bi-monthly newsletter
 - Various news items, announcements & upcoming deadlines
- RSS feed on website

Join our mailing list – it's **FREE!**

```
sigarch 1312  
tcca 1962  
both 123  
just_sigarch 1189  
just_tcca 1839
```

NEW: Student opportunities

- Publicize recent PhD graduates
 - Great source for recruiters in industry/academia
 - Great source for future PC chairs to populate ERC

TCCA Membership

Membership is free!

- See our website

How to join TCCA

- Register as a new member for free as part of your IEEE/CS renewal or join for free without IEEE/CS membership.
- Note though that only those with TC and CS membership can vote in elections or run for office.
- TC membership is continual – you do not need to renew each year.

Join TCCA

Benefits

- Receive newsletter
- Student travel grants
- Child care support
- Companion assist program
- Benefit from conference registration discount as IEEE member
- Vote in elections for TCCA leadership

Awards, see ieeetcca.org/awards

Eckert-Mauchly Award (ACM + IEEE Computer Society)

— Nominations due March 30, 2018

ISCA Influential Paper Award (w/ ACM SIGARCH)

Young Computer Architect Award

HPCA Hall of Fame

NEW

HPCA Best Paper Award

HPCA Test of Time Award

NEW

TCCA/SIGARCH Outstanding Dissertation Award

NEW

Young Computer Architect Award

“The award is open to any individual who has completed his/her PhD degree after March 15, 2012 (within last 6 years). At the discretion of the awards committee, eligibility may be adjusted for documented family-related or medical leaves from employment. The winner of the award will be someone who has made an outstanding, innovative research contribution or contributions to the field of Computer Architecture.”

2017 Awardee: Eric Chung, Microsoft Research

- *In recognition of “outstanding and high-impact research contributions in enabling FPGAs as first-class scalable and high-performance computational engines”*

2018: submissions due March 15, 2018 – announcement at ISCA 2018

- Committee: Onur Mutlu, Ronny Ronen (Chair), Martha Kim

HPCA Hall of Fame

HPCA Hall of Fame lists authors with eight or more papers at HPCA, see <http://ieeetcca.org/>

- Updated from 6+ papers to 8+ papers to be consistent with ISCA and MICRO

Congrats to the new members as of HPCA 2018:

- Christos Kozyrakis
- Benjamin C. Lee
- Milos Prvulovic
- Daniel A. Jiménez
- Mahmut T. Kandemir
- John B. Carter
- Donghyuk Lee

HPCA Test-of-Time Award

- HPCA ToT Award recognizes most influential papers published at HPCA 18 to 22 years ago
- Inaugural Award (2018)
 - Papers from HPCA 1995 till HPCA 2000 (inclusive) were eligible
- Nomination
 - Automatic if more than 100 citations according to Google Scholar
 - Explicit nomination by non-author by Oct 22, 2017

HPCA Test-of-Time Award (bis)

This year's committee:

- Natalie Enright Jerger, U Toronto (Chair)
- Todd Austin, U Michigan
- Hillery Hunter, IBM Research
- David Kaeli, Northeastern U
- Gabriel Loh, AMD Research

2018 HPCA Test of Time Award

“Dynamically Exploiting Narrow Width Operands to Improve Processor Power and Performance”

by David Brooks and Margaret Martonosi (HPCA 1999)

SIGARCH/TCCA Outstanding Dissertation Award

Recognizes excellent thesis research by doctoral candidates in the field of computer architecture

Eligible theses defended and deposited in 2017

Nominations were due Feb 15, 2018

2018 Inaugural Award Committee:

- David Brooks, Harvard U
- Lieven Eeckhout, Ghent U (TCCA EC, Chair)
- Babak Falsafi, EPFL (SIGARCH EC)
- Hillery Hunter, IBM Research
- Li-Shiuan Peh, NUS
- Tim Sherwood, UCSB

Announcement at ISCA 2018

TCCA Budget

New policy since Jan 2016

- 1/3 of conference surplus to TC
- 1/3 of conference surplus to conference
- 1/3 of conference deficit allocated to TC
- Running TC balance
 - In reserve: \$86,848

2018 Allocated Budget (so far)

Purpose	Amount
Student Travel Grants*	\$45,000
CRA-W Grad Cohort (w/ ACM SIGARCH)	\$7,500
ISCA Child Care (w/ ACM SIGARCH)	\$2,000
HPCA Companion Support	\$0
Other Travel/Meeting	\$2,000
Awards	\$3,000
Website	\$200
Total	\$59,700

*ISCA, HPCA, PACT (and other TCCA-sponsored conferences)

TCCA HPCA Student Travel Support

\$20,000 total – 31 students

- 23 male / 8 female
- 20 US / 11 non-US
- Assignment through prioritization system
 - Higher weight for female/URM, then underrepresented school, then paper presentation at conference vs. workshop
 - Support varies from \$500 to \$700+
 - 4 female + 1 male students supported from schools w/o HPCA tradition and who are not presenting a paper

Big thank you to Kelly Shaw!

Current Focus within TCCA EC

Joint SIGARCH/TCCA working group to study and reduce conference registration cost

IEEE Fellows

- Goal: support and increase number of computer architects elevated as IEEE Fellow

Governance rules

- Goal: **increase transparency and diversity**
- TCCA Executive Committee
- Conference SC, GC, PC, keynotes, panels, etc.
 - Target all TCCA (co-)sponsored conferences
- Award committees

Example #1: HPCA (and ISCA) PC selection procedure

1. TCCA Chair solicits candidates for Program Chair from EC
 - Make sure we have a diverse list (gender, institutional affiliation, geographic location, age)
2. If list is too long, the EC is asked to reduce the list (5 to 8 candidates)
3. EC members rank candidates
4. Overall ranking through condorcet voting
5. Invite top-down

Example #2: HPCA ToT Award

Committee rules

- Committee is appointed by TCCA Chair in consultation with EC
- Members serve staggered 3-year terms
- Committee consists of 5 members – at least 2 from TCCA EC; at least 2 at large; at least 2 to from industry
- TCCA Chair should strive for diversity along a number of axes: gender, institutional affiliation, geographic location, seniority

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HPCA 2018

General Chair

– Michael Gschwind (IBM Research)

Program Chair

– Yuan Xie (UCSB)

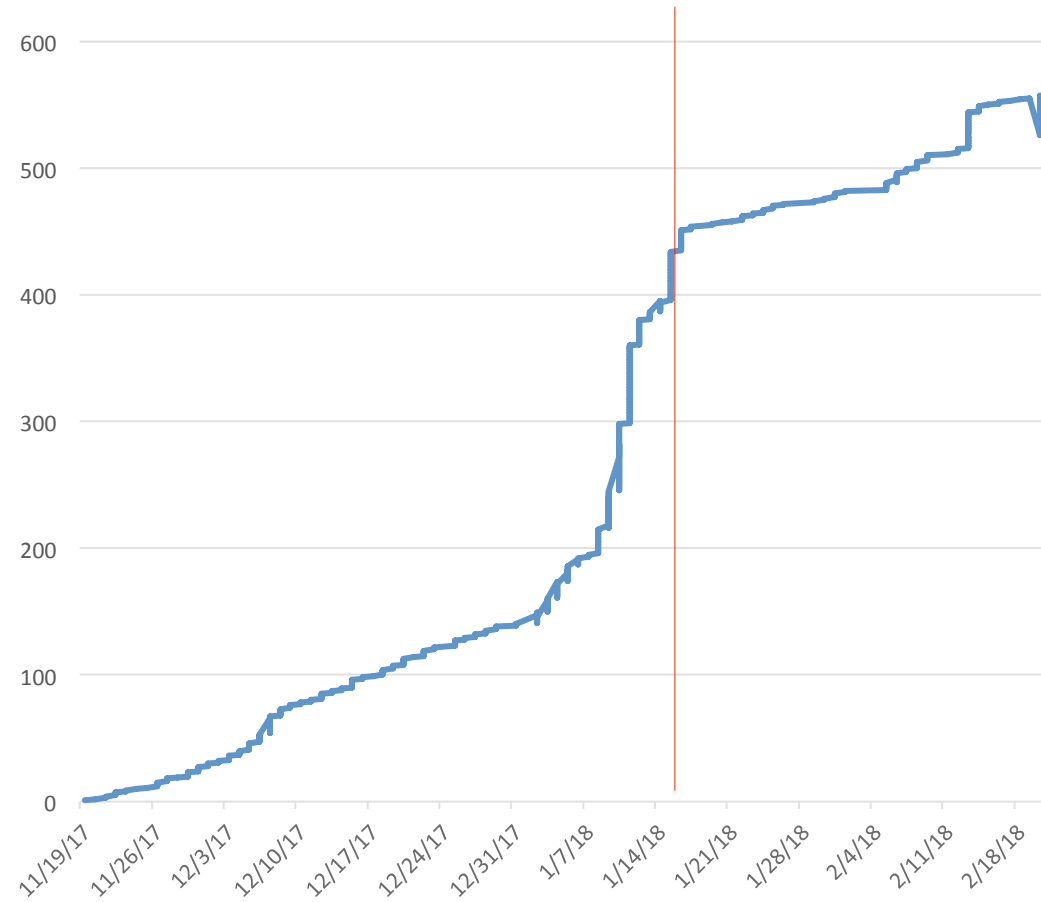
HPCA Business Meeting

Michael Gschwind

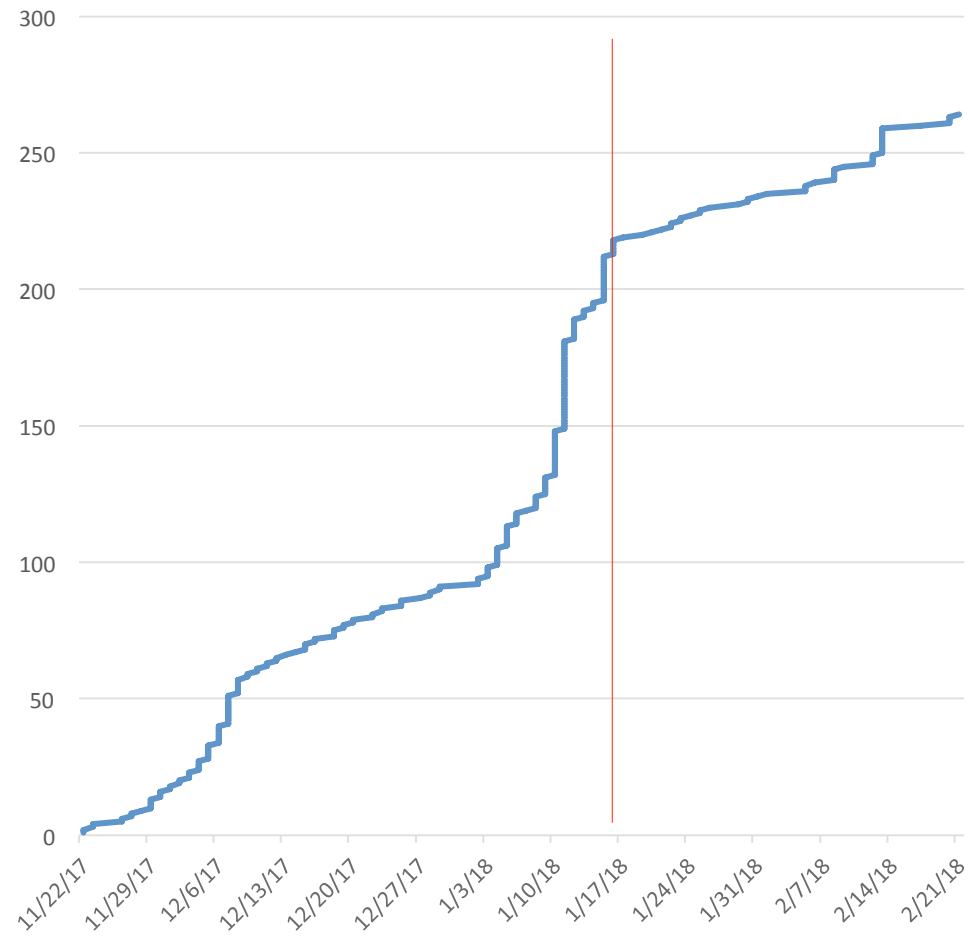
Organizing Committee

Committee Position	Name	Affiliation
General Chair	<u>Michael Gschwind</u>	TJ Watson Research Center, International Business Machines
Program Chair	<u>Yuan Xie</u>	University of California, Santa Barbara
Industrial Session Chair	<u>Valentina Salapura</u>	TJ Watson Research Center, International Business Machines
Workshops and Tutorials Chair	<u>Shahar Kvatinsky</u>	Technion - Israel Institute of Technology
Publications Chair	<u>Zehra Sura</u>	TJ Watson Research Center, International Business Machines
Publicity Co-Chair	<u>Jishen Zhao</u>	University of California, Santa Cruz
Publicity Co-Chair	<u>Muhammad Shafique</u>	Technische Universitat Wien
Publicity Co-Chair	<u>Yinhe Han</u>	Institute of Computing Technology, Chinese Acad. of Sciences
Student Travel Co-Chair	<u>Kelly A. Shaw</u>	University of Richmond
Student Travel Co-Chair	<u>Ronald Mak</u>	San Jose State University
Sponsorship Chair	<u>Xuehai Qian</u>	University of Southern California
Submission Chair	<u>Xing Hu</u>	University of California, Santa Barbara
Web Chair	<u>Peng Gu</u>	University of California, Santa Barbara

Registration Details: Combined



Registration Details: HPCA



Historic Registration Comparison

- HPCA 2016 Barcelona 226
- HPCA 2017 Austin 318
- HPCA 2018 Vienna 264 conference + WS

Student Travel

- >50 applications
- Student Travel Grants
- NSF USD 10,000
- TCCA USD 20,000
- HPCA USD 5,000

Financials

- Total Non-Sponsorship Revenue: EUR 116,000
- Total Expenses: EUR 129,000



24th IEEE International Symposium on High Performance Computer Architecture

24-28 February 2018 | Vienna, Austria

Platinum Supporters



Gold Supporters



Silver Supporters



Bronze Supporters



Conference Supporters



HPCA 2018

Program Chair's Report

Yuan Xie

University of California, Santa Barbara

Submission & Review Process

- 260 submissions: A record-high submission number in the last 12 years. 16% increase of the submissions compared to 2017.
- 54 PC members, 111 ERC members.
- 1325 reviews were received
 - for an average of 5.2 reviews/paper.
- Each paper has 5-6 reviews (with at least 3 PC reviews and 2 ERC reviews)
 - except some low quality papers which only 3 reviewers were assigned based on the initial screening.

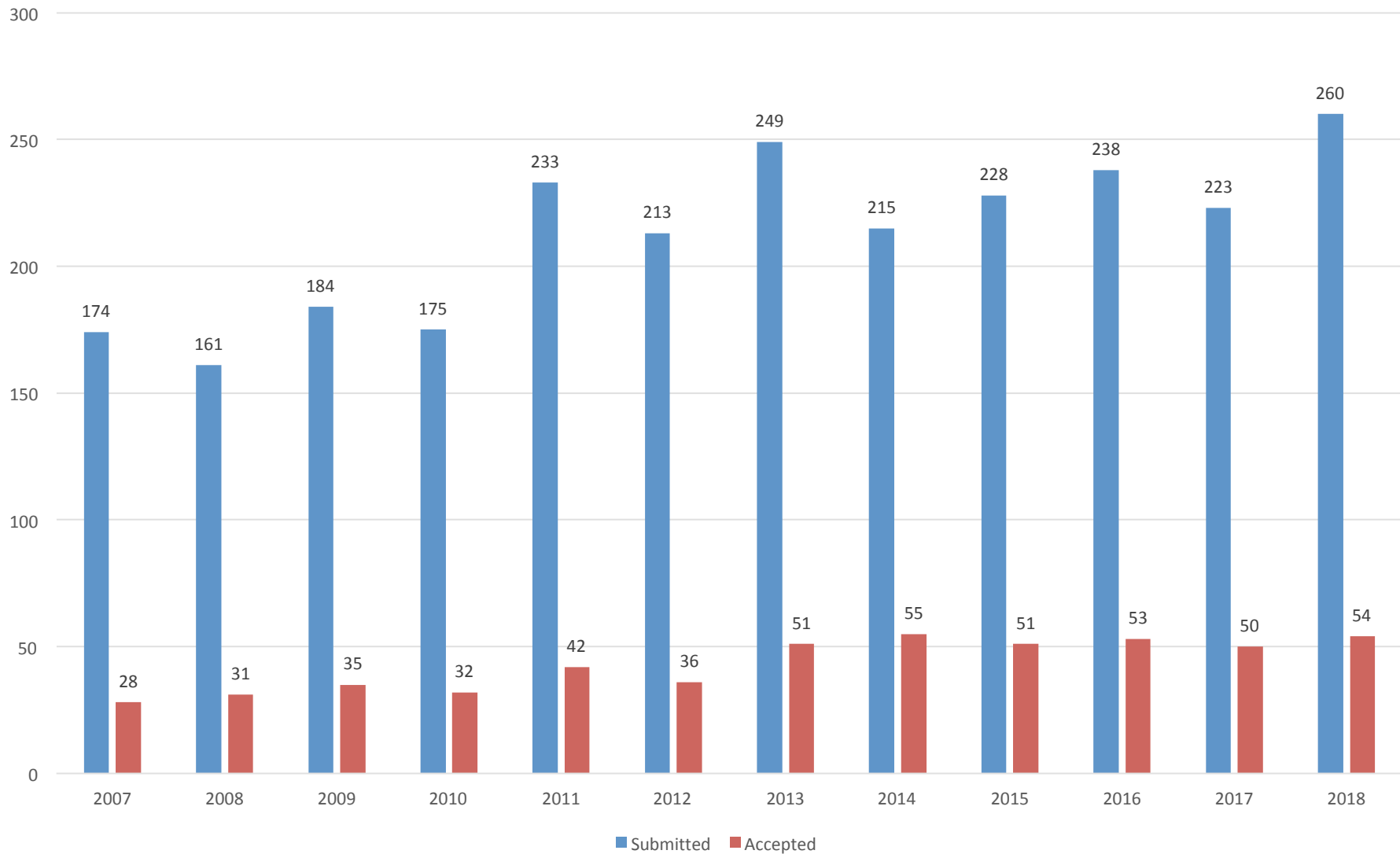
Review Process

- Authors were given choices of traditional rebuttal or paper revision.
 - 129 rebuttals
 - 49 revisions
- 1.5 day TPC meeting@Boston (co-located with MICRO)
 - Thank Dave Kaeli for help!
 - 51 out of 54 attended the meeting in person
- 54/260 accepts
 - 20.7% acceptance rate

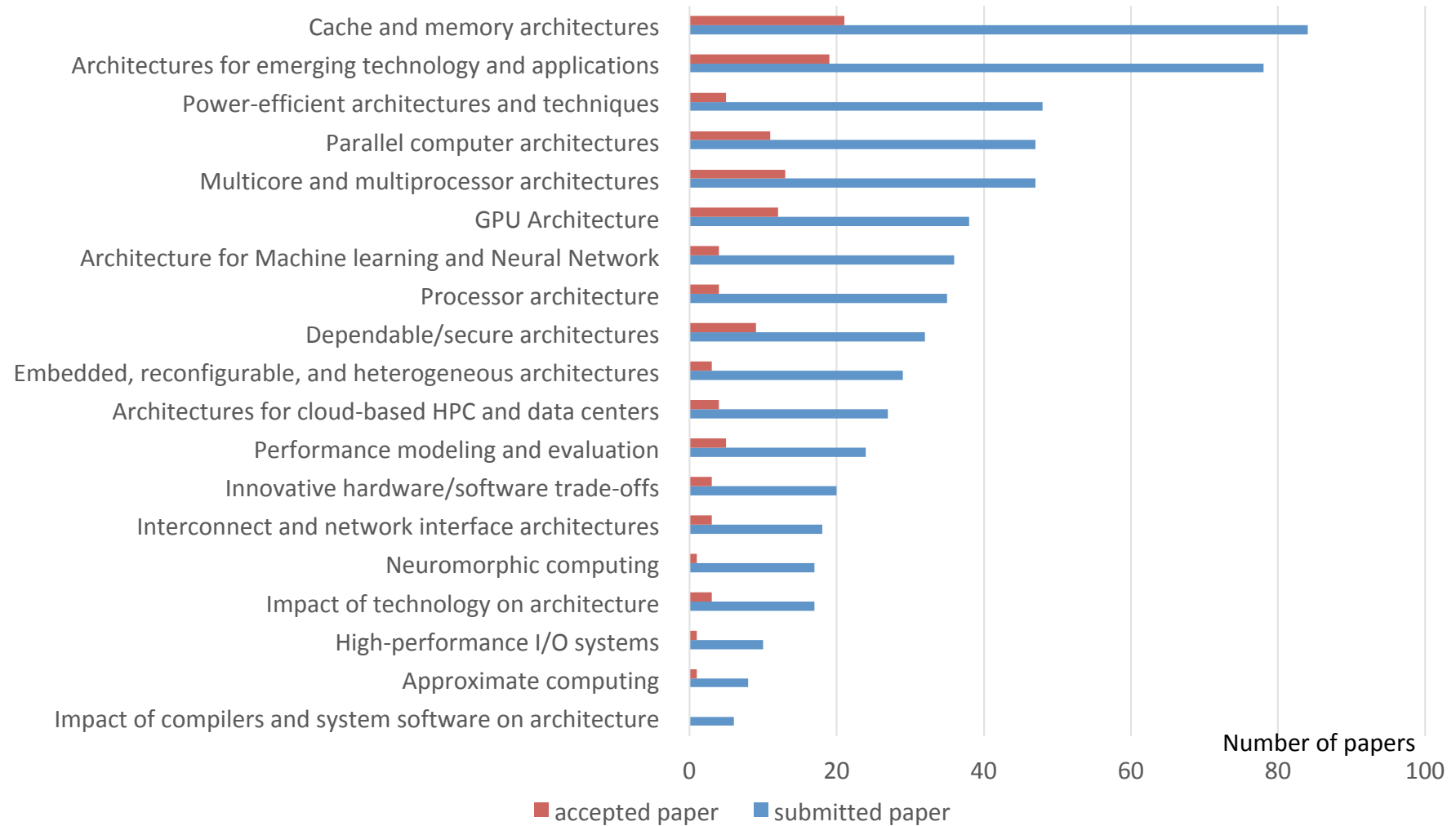


Historic Statistics

HPCA statistics



Breakdown by Topic



Regular Program

- **A new experiment**
 - Remove the lightning session
 - Give authors the option to post 2-min lightning talk video on the website (~40 out of 54)
- **Best Paper Session**
 - Nominations solicited from PC after the TPC meeting
 - Top 4 vote-getters are nominees
 - A BP selection committee to choose the winner
 - Winner will be announced on Wednesday

Industry Track & CAL Best Paper

- Valentina Salapura and Daniel Sorin
 - Industry track and best CAL papers in this program
- A record high industry track submission too
 - 33 submissions vs. usual 10-12 in the past
- 8 out of 33 were selected for two industry sessions
- 3 CAL papers were selected by the editorial board of CAL, led by Dan Sorin

Thoughts

- A rewarding experience to learn from past chairs and will communicate knowledge to the next PC chair
 - Learn a lot from David Brooks, Lieven Eeckhout, Daniel Jiménez, Onur Mutlu, Moinuddin Qureshi, Daniel Sanchez, and Dean Tullsen. Thank you all!
 - I will talk to Rajeev and Viji (HPCA 2019 PC Chair) and prepare a report to TCCA.

Special Thanks

- Thanks to all the authors!
- Thanks to the program committee and ERC!
- Thanks to the General chair Dr. Michael Gschwind
- Daniel Jiménez and Tim Sherwood
 - Handled my conflicts
- Valentina Salapura and Daniel Sorin
 - Industry track and best CAL papers in this program
- Submissions chair Xing Hu
 - Handled the website, ran the PC meeting, and a lot more
- Student volunteers: Peng Gu, Shuangchen Li, Itir Akgun

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HPCA 2019 = 25th Anniversary

We are soliciting ideas for celebrating this glorious event

- Collection of 2-page retrospectives?
- Panel discussion?
- Lunch speaker?

Josep Torrellas is collecting ideas

https://docs.google.com/document/d/1ej4vGskNNgxR4gZR6ln_pwPYAFd3B0cLvUJ9k5eGg/edit?usp=sharing

HPCA 2019

General Chairs

- Ahmed Louri (George Washington U)
- Guru Venkataramani (George Washington U)

Program Chairs

- Rajeev Balasubramonian (U Utah)
- Vijayalakshmi (Viji) Srinivasan, IBM Research

HPCA 2019 - The Silver Jubilee Edition

February 16-20, 2019

General Chairs

Ahmed Louri (George Washington U)

Guru Venkataramani (George Washington U)

Washington, DC

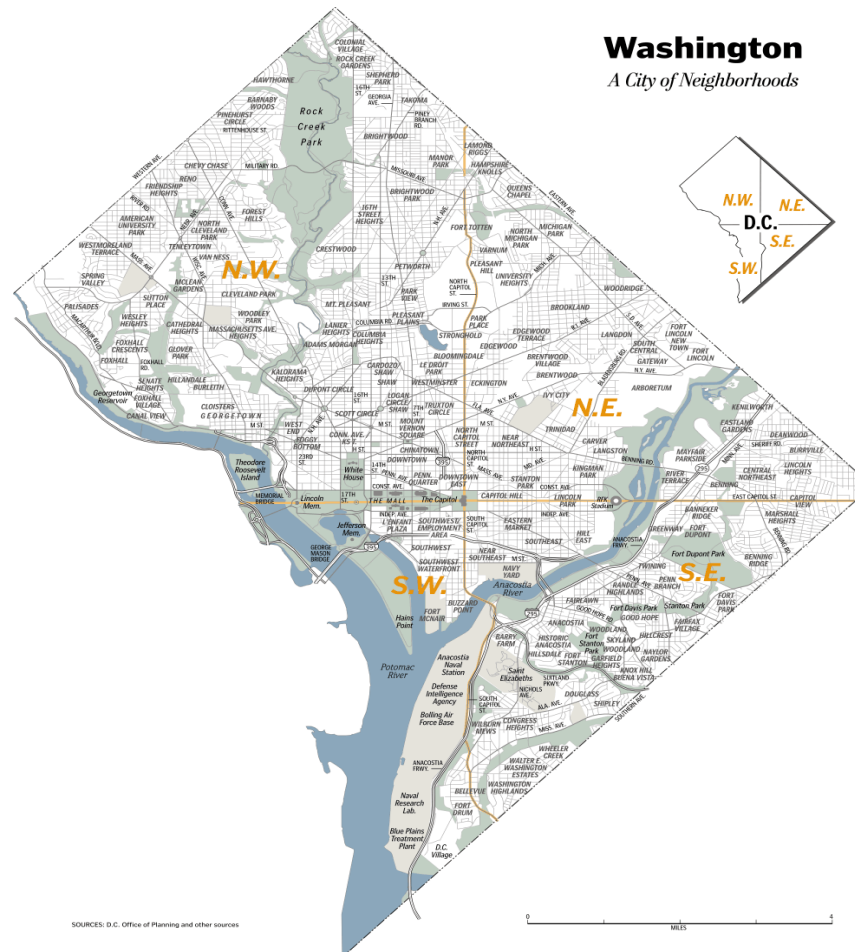


Photo credit: Washington Post

Attraction Abundance



Photo credit: boomsbeat.com

Perks of staying in DC until March-end



Photo credit: aaa.com

For the lucky, in Feb...



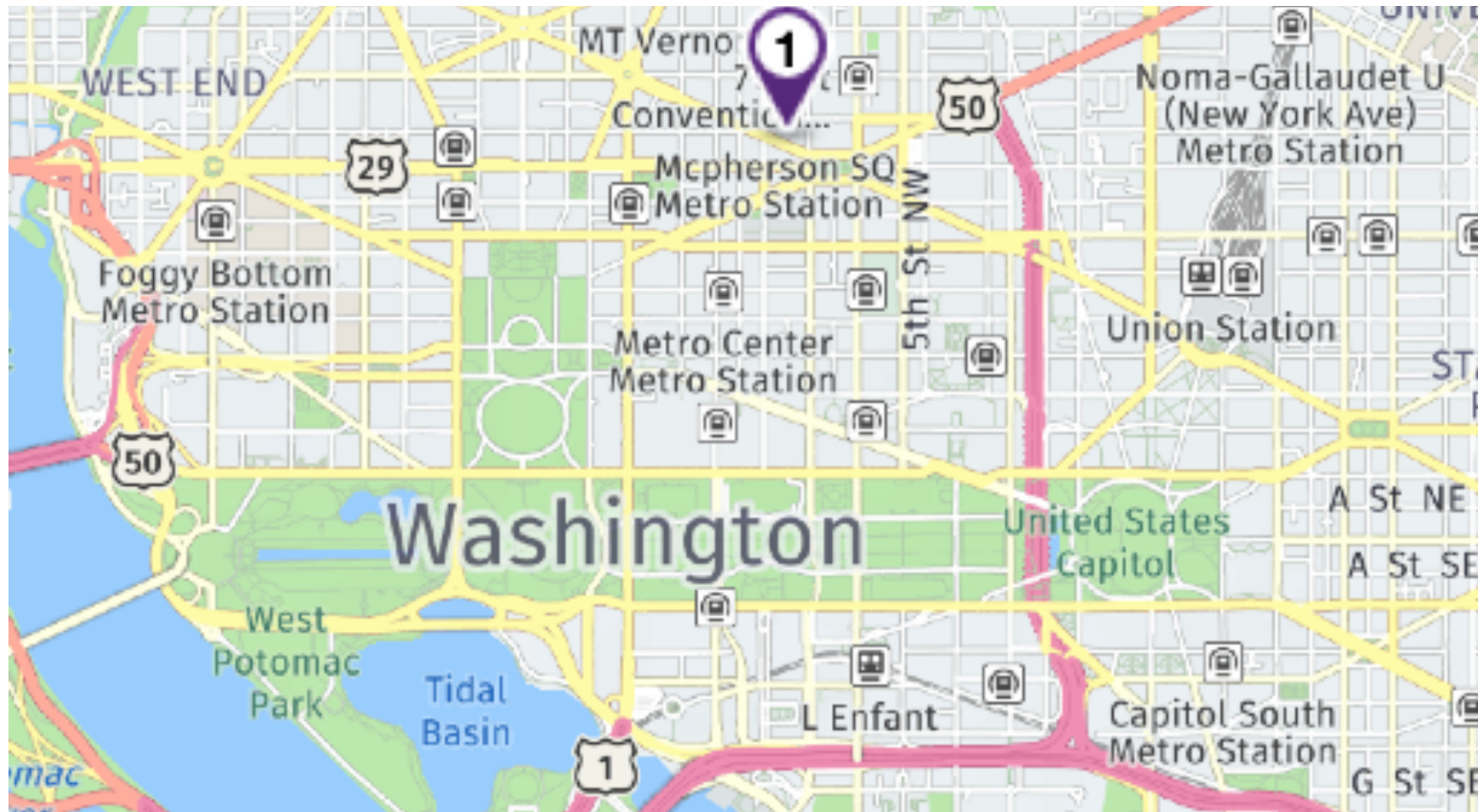
Photo credit: ianlivingston.com

Getting Around



Courtesy: WMATA

Our conference neighborhood



Courtesy: Yahoo Maps



Marriott Marquis Washington, DC

Hotel Lobby Art and *The Birth of the American Flag* Sculpture



Marriott Marquis Washington, DC

Hotel Features

- Designed to be one of the largest Silver LEED certified hotel in the country
 - Atrium-style Grand Lobby
- Spans almost an entire city block and capped with an atrium skylight the size of a football field
- 8,000 square ft. bi level complimentary fitness center
- Six unique restaurants and retail outlets on street level
 - Directly connected to Walter E. Washington Convention Center via underground concourse
- Metro accessible on the green and yellow lines via Mount Vernon Square Station
 - 100% non-smoking property

Attractions and Landmarks

- U.S. Capitol
- Library of Congress
- National Gallery of Art
- National Portrait Gallery
- Warner Theatre
- Newseum
- International Spy Museum
- The Kennedy Center
- The National Mall
- U.S. Department of State
- U.S. Holocaust Museum
- The White House



Marriott Marquis Washington, DC

Getting Here

Reagan Washington National Airport – DCA

Hotel direction: 5.5 miles North

Subway fare: \$2.55 (one way)

Estimated taxi fare: \$15.00 - 18.00 (one way)

Dulles International Airport – IAD

Hotel direction: 25 miles East

Estimated taxi fare: \$55.00 (one way)

Baltimore-Washington International Airport - BWI

Hotel direction: 25 miles Northeast

Estimated taxi fare: \$60.00 (one way)

Amtrak Union Station

Hotel direction: 3.0 miles

Subway fare: \$2.55 (one way)

Estimated taxi fare: \$8.00 (one way)

Restaurants & Lounges

- Anthem Restaurant
- High Velocity Sports Bar & Restaurant
- The Dignitary
- Arroz
- Lobby Bar & Lounge
- Starbucks

Guest Room Amenities

- Marriott's signature Revive bedding package
- Ultra adaptable work zone with custom designed pivoting desk and ergonomic chair
- Plug-in technology panel and LCD flat-screen television
- Wired and wireless internet access



Floating the banquet idea...



Photo credit: Odysseycruises.com

The Team



General Co-chairs



Program Co-chairs



Finance Chair

The Team (contd.)

- Industry Session Chairs (2)
 - TBD
- Local Arrangement Chairs (2)
 - Donald Yeung, UMD
 - Samee Khan, NSF
- Publicity Chairs (3)
 - Onur Multu, ETH
 - Duo Liu, Chongqing U
 - Jie Chen, Mathworks
- Publications Chair (1)
 - Paul Gratz, Texas A&M
- Registration Chair (1)
 - EJ Kim, Texas A&M
- Workshops Chair (1)
 - Chao Li
- Tutorials Chair (1)
 - Ann-Gordon Ross, Florida
- Student Travel Chair (1)
 - Sudeep Pasricha, Co. State
- Web/social media Chair (1)
 - Hao Zheng, GWU
- Sponsorship Chairs (2)
 - Xuehai Qian, USC
 - Yuan Xie, UCSB
- Submission Chair (1)
 - Fan Yao, GWU

HPCA 2019

General Chairs

- Ahmed Louri (George Washington U)
- Guru Venkataramani (George Washington U)

Program Chairs

- Rajeev Balasubramonian (U Utah)
- Vijayalakshmi (Viji) Srinivasan, IBM Research

HPCA Business Meeting

Discussion for the HPCA 2019 Review Process

PC Chairs: Viji Srinivasan and Rajeev Balasubramonian

Dates:

- Submission deadline: August 3rd 2018
- Rebuttals/revisions: October 4-18
- Notification: November 5th
- MICRO'18 is Oct 20-24 and MICRO'18 notification is mid-July

Non-Controversial Policies

- Reminder of implicit biases before reviewing begins
- Adding a word count limit to submission guidelines
- PC will write a post-discussion summary for every paper
- Authors can submit a revised pdf during the rebuttal phase
- 2-phase review process
 - All papers get 4 reviews (2 PC, 2 ERC) in round 1
 - About 110 papers get one more PC review in round 2
 - Reduces PC load to 10+2 (important!)

Thanks to many earlier PC Chairs for suggestions and for introducing some of these practices.

Policies Worth Debating I

- PC will be given guidance about a suggested distribution of merit scores
 - For example, 4-5 scores of weak-accept-or-better among a PC member's 12 papers
- PC and ERC will assign ranks to papers
 - The ranks will be used for calibration and may influence discussion order at the PC meeting
- Empirical data: MICRO'17 had 41%/37% positive reviews

Policies Worth Debating II

- Optional suggestion to reviewers:
For re-submitted papers, authors have the option of submitting a second pdf with all the changes highlighted.
- This second pdf will *not* be visible to reviewers by default
- If a reviewer has previously reviewed the paper, they can request the second pdf from the PC Chairs
- Why?
 - Reduces load for reviewers; improves review quality
 - Forces authors to seriously consider feedback
 - Creating a second pdf should be trivial for authors

Policies Worth Debating III

- Current IEEE/ACM policy:
 - On-line pre-prints are allowed, e.g., arxiv, tech-reports
- Informal guideline to reviewers:
 - On-line pre-prints are not viewed as prior work
- There are some good reasons to post pre-prints; please weigh these against the significant downside that you are disrupting the double-blind review process
- In most cases, short papers in CAL and workshops may be preferred as an early checkpoint
- Note that the ACL conference does not allow on-line pre-prints:
<https://www.aclweb.org/portal/sites/default/files/SurveyReport2017.pdf>

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HPCA 2020 and beyond

HPCA 2013: Shenzhen, China

HPCA 2014: Orlando, FL

HPCA 2015: San Francisco, CA

HPCA 2016: Barcelona, Spain

HPCA 2017: Austin, TX

HPCA 2018: Vienna, Austria

HPCA 2019: Washington, DC

HPCA 2020: Proposal for San Diego, CA

HPCA 2021: Early proposals for

- **Edinburgh, Scotland**
- **Beijing, China**

HPCA 2020

San Diego, CA USA

Dean Tullsen
UCSD

But first, a note about weather

February in Vienna



February where some of you live



Lausanne



Boston



Wisconsin



Michigan

February in San Diego



Leadership Team

HPCA

- General Chairs: Hadi Esmaeilzadeh, Dean Tullsen
- Others: Steve Swanson, Jishen Zhao

PPoPP

- General Chair: Rajiv Gupta

CGO

- General Chairs: Lingjia Tang and Jason Mars

Travel

- San Diego International Airport has access to all major domestic hubs and many more cities, including nonstop to
 - Chicago, New York, Boston, Atlanta, Seattle, and many many more
- Has international nonstop connections to
 - London, Frankfurt, Zurich, Tokyo, and some others

Hotels

- We have not had time to gather information yet, but in February, should be able to find something reasonably close to Ocean.
- ***Not*** Mission Valley (for those who remember FCRC)

Possible Excursion/Banquet



HPCA 2020 and beyond

HPCA 2013: Shenzhen, China

HPCA 2014: Orlando, FL

HPCA 2015: San Francisco, CA

HPCA 2016: Barcelona, Spain

HPCA 2017: Austin, TX

HPCA 2018: Vienna, Austria

HPCA 2019: Washington, DC

HPCA 2020: San Diego, CA?

HPCA 2021: Edinburgh, Scotland?



THE UNIVERSITY of EDINBURGH
informatics

CGO/PPoPP/HPCA & CC Location Proposal: Edinburgh, Scotland

Björn Franke



Facts

- **Capital of Scotland:** seat of the Scottish Government, the Scottish Parliament and the supreme courts of Scotland
- Population: 483,000, **7th largest city** in the UK
- **Second largest financial centre** in the United Kingdom
- Edinburgh's Old Town and New Town together are listed as a **UNESCO World Heritage Site**
- Temperate, maritime climate which is **relatively mild** despite its northerly latitude. Summer temperatures are normally moderate, rarely exceeding 22 °C (72 °F).

Attractions

- Edinburgh Festival. Music, dance, theatre, ...
 - One of the biggest cultural festivals in the world with >1 million visitors per year
- Edinburgh Castle
 - Dating back to 12th century, 1.25 million visitors each year
- Galleries, museums (mostly free admission), historical tours, palaces, cathedral, shopping, parks, Scotch Whisky Experience!
- Virtually all attractions and places to visit in Edinburgh are within **walking distance**. Good public transport.



Palace of Holyroodhouse, Edinburgh



Scott Monument, Edinburgh



Scottish National Gallery of Modern Art, Edinburgh




University of Edinburgh

- Founded in 1582, 4th Scottish University, 6th oldest in the English-speaking world
- **School of Informatics**
 - Largest in the UK and one of the largest in Europe, one of seven schools in the College of Science and Engineering
 - Organised in seven research institutes: Theory, Robotics, Computational Cognition & Linguistics, Artificial Intelligence, Machine Learning and Neural Computation, **Computer Systems**
 - Three Doctoral Training Centres in **Pervasive Parallelism**, Data Science and Robotics and Autonomous Systems
- **Edinburgh Parallel Computing Centre (EPCC)**
 - Home of UK's national high-end computing system, ARCHER (Advanced Research Computing High End Resource), and the UK Research Data Facility (UK-RDF)



THE UNIVERSITY *of* EDINBURGH



 alamy stock photo

C2NNMK
www.alamy.com

Conference Hosting

Relevant Conferences

- ETAPS (CC) 2005
- ICFP 2009
- PGAS 2013
- **PACT 2013**
- **PLDI 2014**
- EuroLLVM 2014
- EuroMPI 2016

Large Venues

- **Edinburgh International Conference Centre**
 - Adaptable auditoria, break-out suites and spacious exhibition and reception areas (Capacity 100-2000)
- **Assembly Rooms**
 - Adaptable seating is available for all styles to suit any requirement: theatre, conference, banquet, cabaret or classroom. Full lighting rigs, sound AV and WIFI throughout is all available.

Capacity Opportunities

Theatre	Dinner	Dinner Dance	Reception
788	430	380	600



Travel & Accommodation



Flights from United States of America to Edinburgh

www.google.co.uk/flights

Sponsored 

From New York City

1 non-stop flight per day

from £523

From Boston

1 stop flights available

from £525

From Chicago

1 stop flights available

from £704

From Los Angeles

1 stop flights available

from £625

From Providence

1 stop flights available

from £478



Show less

Local Travel

Travel to Edinburgh

Edinburgh boasts an **international airport** with flights from North America and many European and UK destinations. Taxi, tram and bus links connect the airport to the city centre with a journey time of 25-30 minutes.

Rail

Edinburgh stations are linked to all the UK's major cities and airports. A high-speed link from London takes just over four hours.

Taxis

Fares vary according to the time of day and traffic, but a typical fare from the airport to the School would be £25 with a journey time of 25-30 minutes.

Bus

Lothian Buses run many routes from across the city to the central campus. A single ticket costs £1.60 and a day ticket is £4.00.

Hotels

- Hotels: 141
 - Average Room Rate: £164,17
(compared to £97,24 for regional UK cities and £337,78 for London)
 - Total Sleeping Rooms: 10,405
- 2,028 year-round visitor accommodation establishments in Edinburgh, representing a total of 20,733 bedrooms
- 3.8 million overnight visits, representing 13.4 million bed-nights

Largest hotel companies in Edinburgh (October 2015)			
Company	Hotels	Rooms	Brands
Accor	8	1,251	Ibis; Ibis Styles; Mercure; Novotel
IHG	8	1,043	Crowne Plaza; Holiday Inn; Hotel Indigo
Whitbread	9	1,030	Premier Inn
Travelodge	10	719	Travelodge
Hilton	4	665	Doubletree; Hilton; Waldorf Astoria
Marriott	4	632	Glasshouse; Marriot; Residence Inn
Apex Hotels	4	541	Apex
Principal Hayley	3	495	The Bonham; The George; Roxburgh
Rezidor	2	374	G&V; Radisson Blu
Motel One	2	348	Motel One
Starwood	1	269	Sheraton
Best Western	3	233	Best Western
Macdonald Hotels	3	226	Macdonald
Frasers Hospitality	3	222	Frasers Suites; Hotel du Vin; Malmaison
Edinburgh Collection	4	190	Channings; Howard; Old Waverley; Holyrood

People & Environment

Local People

- Edinburgh
 - CGO: Michael O'Boyle, Christophe Dubach, Aaron Smith, Hugh Leather, Chris Fensch, Björn Franke
 - HPCA: Boris Grot, Vijay Nagarajan, Nigel Topham
 - PPOPP: Christophe Dubach
- UK
 - PPOPP: Alastair Donaldson, Tim Harris, Paul Kelly
 - HPCA: Mikel Lujan
 - CGO: Tim Jones

Support

- EU HiPEAC NoE (<https://www.hipeac.net>)
- UK MaRIONet (<https://manycore.org.uk>)
- Relevant Edinburgh & UK companies
 - Edinburgh: CodePlay, CriticalBlue, Cirrus Logic, Synopsys, Xilinx, Amazon, Disney Research, Keysight Technologies,...
 - UK: Arm, Imagination Technologies, CEVA, Maxeler, Frontier Smart, IQE, Mathworks

CDT PP Industry Partners

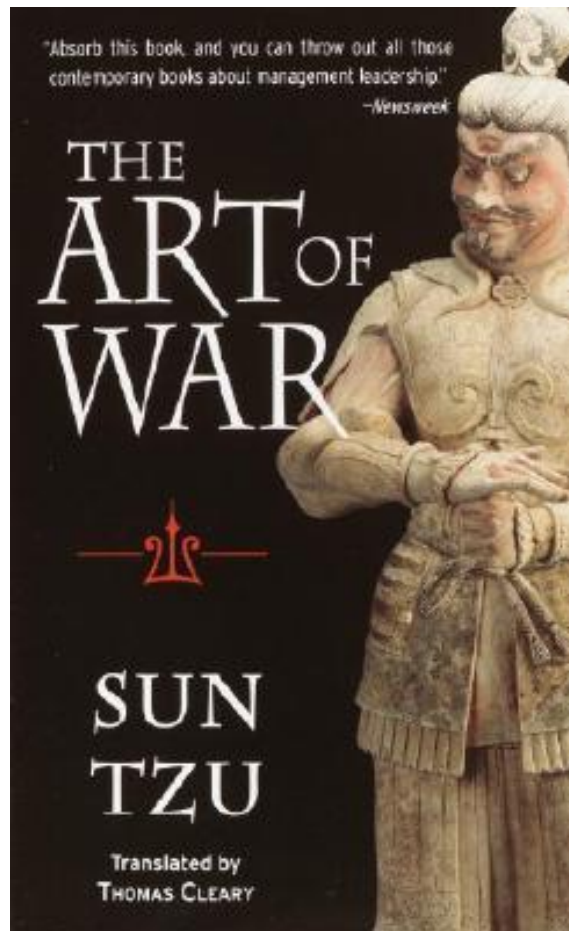


Samsung Electronics R&D Institute UK



A Proposal for Organizing HPCA/ CGO/PPOPP 2021 in Beijing

Institute of Computing Technology
Chinese Academy of Sciences
Peking University
Beijing, China



To success, three elements are needed:

1. Favorable Climate,
2. Geographical Benefits ,
3. People' s Support

天时，地利，人和

Sun Tzu, a Chinese military general, strategist and philosopher, 2500 years ago.

☐ Strong semiconductor industry in China

☐ Strong contribution history from China to HPCA

Favorable Climate

-- HPCA was hosted in Mainland China only once (2013) in Shenzhen

☐ A city that hosted many other top conferences but never for HPCA

☐ Strong presence of industry and academia in Beijing

-- guaranteed large number of local attendees

-- guaranteed sponsorship from industry

Geographical Benefits

☐ Great conference venue with many possible social program

People's Support

☐ Strong leadership with significant contribution to HPCA

☐ Strong team with a track-record in organizing successful conferences

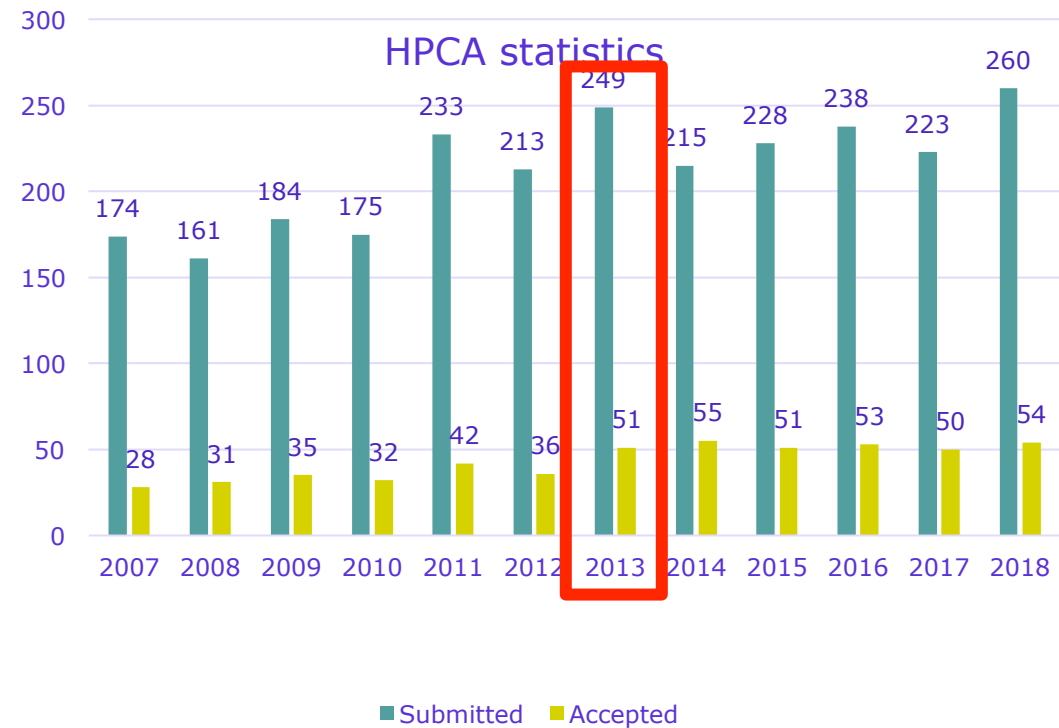
-- many contributed to HPCA/CGO/PPOPP before

-- worked together to host ISLPED 2013 and ISCA 2008, ICS 2018 in Beijing

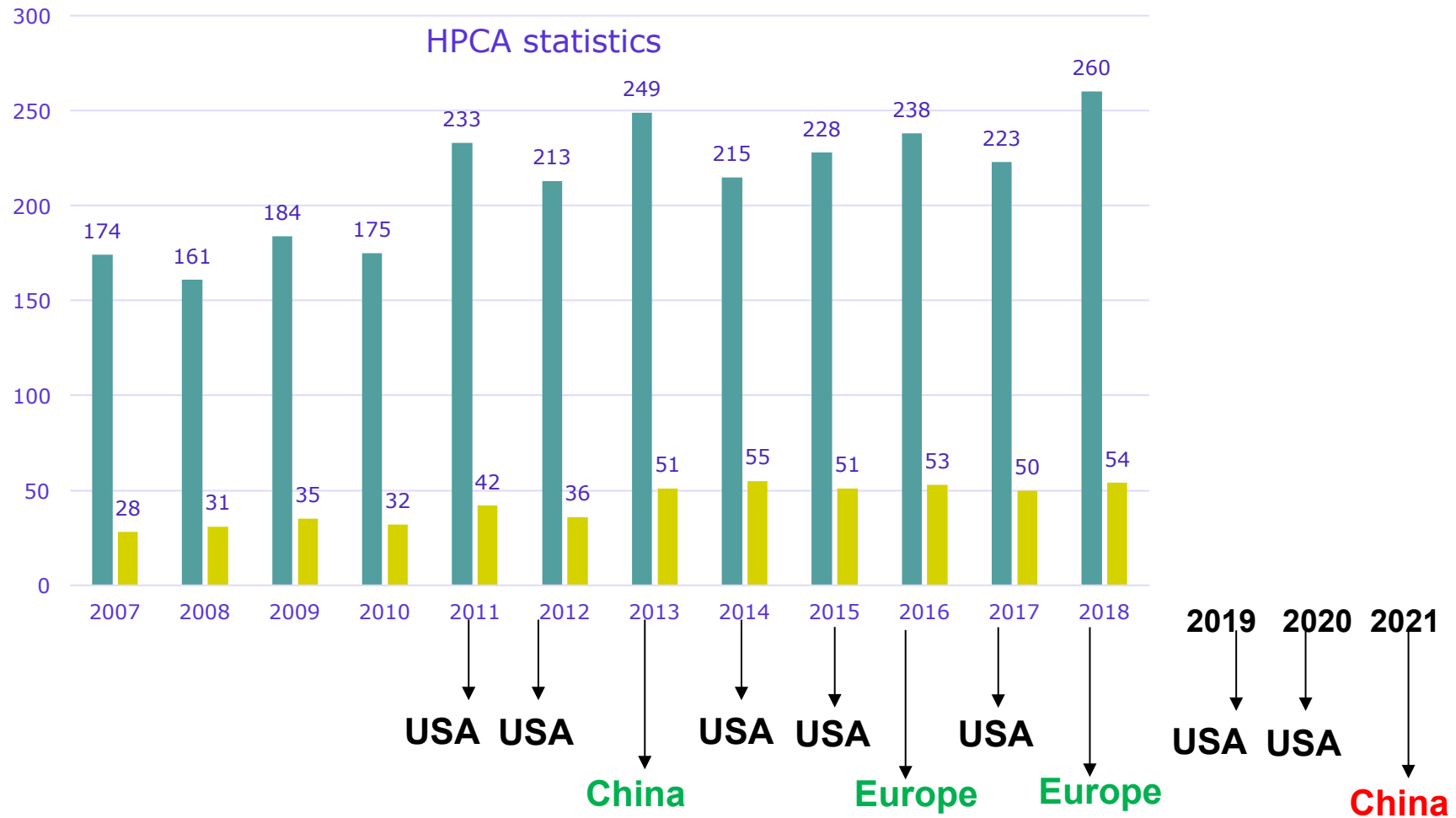
❑ Beijing, as a No1. tourist's attraction in China, never host HPCA before (**China** hosted **ONLY** once in Shenzhen, 2013)

❑ Boosting the influence of HPCA

- Demonstrated by ISCA 2008, CPS 2012, ISCAS 2013, ISLPED 2013, ICML 2014
- HPCA 2013 in Shenzhen holds the peak submission record in HPCA history (except this year)
- Strongly believe the same “**magnetic**” if HPCA 2021 is held in Beijing



The last two overseas HPCA were held in Europe. It is time to back to Asia



More than 70 universities in Beijing, just name a few:

- ❑ Tsinghua University
- ❑ Peking University
- ❑ Chinese Academy of Science
- ❑ Beihang University
- ❑ Beijing University of Posts and Telecommunications
- ❑ University of Science and Technology in Beijing

Guarantee of high number of local attendees from local universities and industry. Estimated 800+



- General Co-chairs for HPCA: Yuan Xie (UCSB) and Dongrui Fan (ICT)
 - General Co-Chairs for CGO: Chen Ding (Rochester) and Xiaobin Feng (ICT)
 - General Co-Chairs for PPOPP: Frank Mueller (NCSU) and Jidong Zhai (Tsinghua)
- All GCs are well-respected world-class experts in the corresponding areas

□ The team has a history of successful organizing IEEE/ACM conferences

- The team has organized **ISCA 2008, ISLPED 2013 in Beijing, HPCA 2013 in Shenzhen**, with rich experience on organizing top architecture conferences in China.
- Will host **ICS 2018** in Beijing with the same local organization team
<http://ics2018.ict.ac.cn/#organization/>

□ Local Academia Sponsorship

- Tsinghua University
- Peking University
- Chinese Academic of Science
- NSFC
- CCF (China Computer Federation) with 40,000 members (5000 attendees in China National Computing Conference 2016)
- All confirmed

□ Strong Industrial Financial Support

- Emerging AI IC companies such as Deephi, Cambricon, Bitmain, Smart-co
- System companies such as Huawei, Microsoft, IBM, Shugun
- IC design companies such as AMD, Intel, MediaTek
- Foundries such as TSMC, Globalfoundry, and SMIC
- **Already committed with at least \$100K:**
 - Deephi, Smart-co, Cambricon, Bitmain, Huawei, Shugun
- We will guarantee the highest financial sponsorship in HPCA's history
- Abundant financial support can significantly reduce registration fee and enable student travel grants.

- **2016-2017 Totally 37 IEEE Conferences are scheduled in Beijing**
 - **2017 IEEE International Conference on Image Processing (ICIP)**
 - **2017 Annual Conference of the IEEE Industrial Electronics Society**
 - **2017 ACM/IEEE Symposium on Architectures for Networking and Communications Systems (ANCS)**
 - **2017 IEEE 2nd International Conference on Big Data Analysis (ICBDA)**
 - **Every 3 weeks there will be one IEEE Conference in Beijing**
- **It is too early to find out what other IEEE conferences are scheduled in Beijing, but at least two BIG ones in 2020!**

2020 IEEE Conference on Computer Communications (INFOCOM)
2020 IEEE/ACM ASPDAC

- **No.1 Tourist Attraction in China**
- **Direct flight from all major cities in the world**



HPCA Logistic Plan

- ❖ Crowne Plaza Hotel Beijing, China
- ❖ Double room: \$150–250
- ❖ Additional hotels within walking distance, \$60–\$150
- ❖ Social Event: Laoshe Teahouse
- ❖ Three excursion plans to choose from

Conference Venue

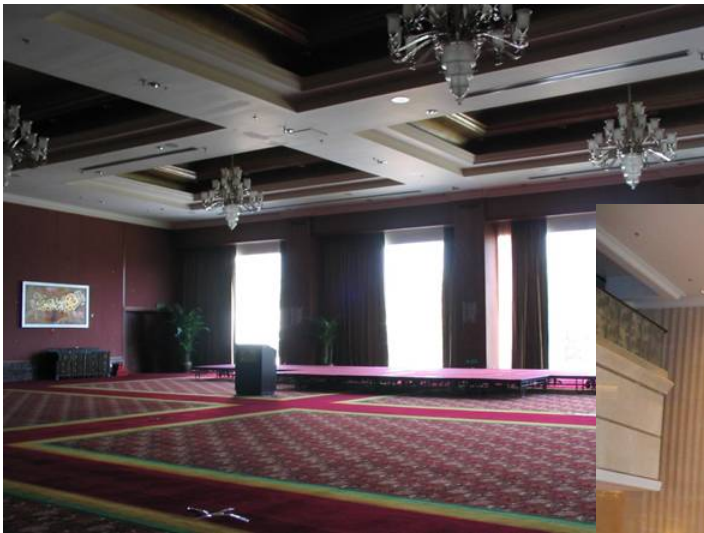
- Crowne Plaza Hotel BEIJING WUZHOU ★★★★★
 - Venue for ISCA 2008
 - A luxury hotel located in the northern part of Beijing
 - Neighborhood of Zhong Guan Cun area (Silicon Valley in Beijing)
 - Not far from the downtown of Beijing
 - Many Universities and Research Institutes

http://www.ichotelsgroup.com/h/d/cp/1/en/hotel/pegpv?_requestid=81368



Conference Room

- Crown Ballroom
 - For 900+ people
 - Can be divided as three, each for 300+ people
- Function rooms for sections & tutorials
 - One large room for 80+ people
 - Eight small rooms for 30+ people



Rooms for tutorials and workshops



Flights Information

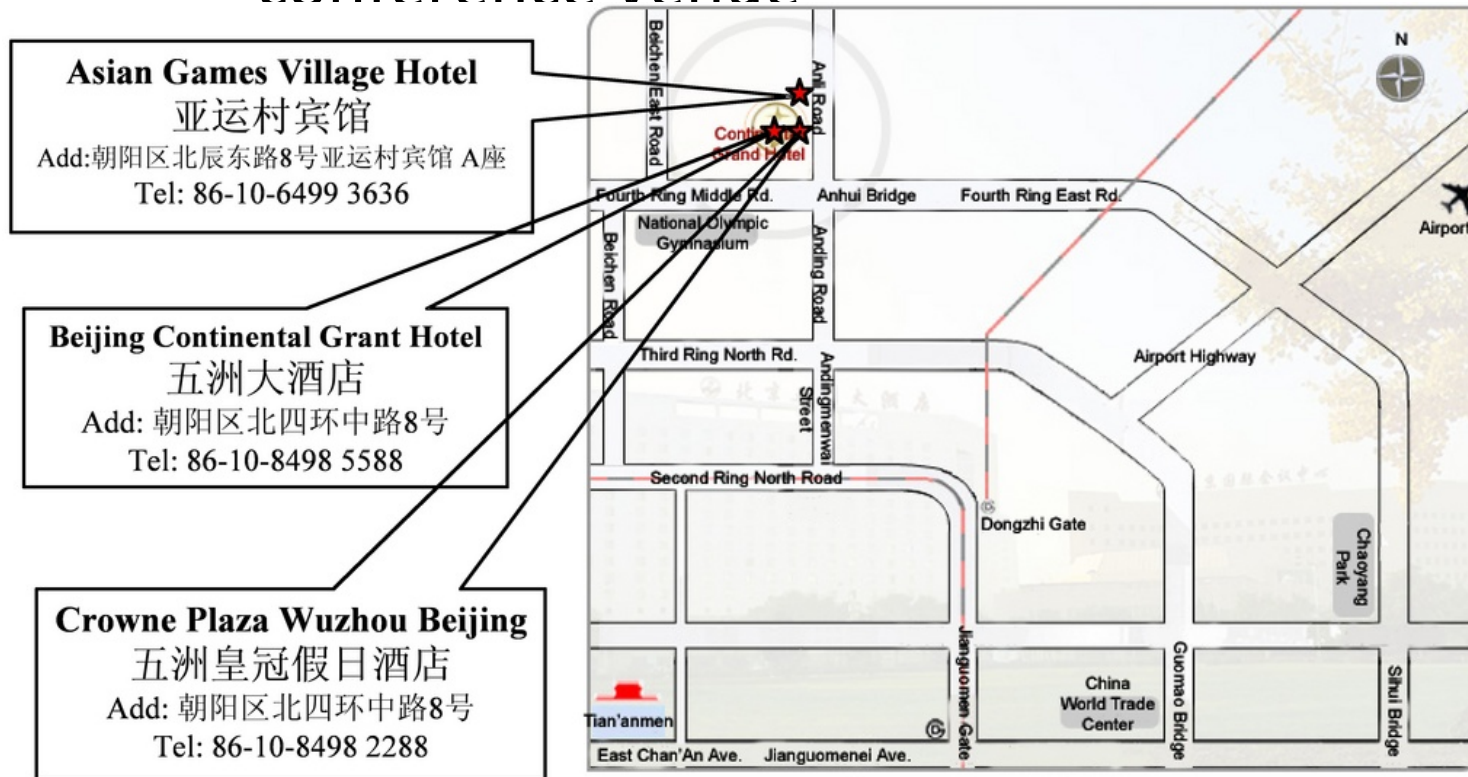
❖ Cities Non-Stop Flight to Beijing

From	Airline	Round-the-Trip Fares
Chicago	CO, DL, KE, UA, CA	~1250 USD
San Francisco	UA, CO, CA, DL	~1100 USD
New York	UA, CO, DL, AF, CA	~1200 USD
Paris	LH, AF, KL, CA	~ 780 USD
Tokyo	CA, CZ, DL, JL, MU, NH	~ 450 USD

Hotels Information

❖ Hotels Selected

- 5-minute walking distance from each other and the conference venue



Main Hotel

- Crowne Plaza Wuzhou Beijing *****
 - Conference Venue

Single or Double Room Single Use	Double Room
US \$150 - 180	US \$150 - 250



Additional Hotels

- Hotels within 15-Minute Walking Distance
- Conference Rate

Hotel (bed & breakfast fares)	Single or Double Room Single Use	Double Room
Beijing Continental Grand Hotel 3-minute walk **** http://www.bcg hotel.com/	US \$ 100 - 120	US \$ 100 - 150
Asian Games Village Hotel 5-minute walk ***	US \$ 50	US \$ 50 - 70
Other hotels with 3-stars or less	US \$ 50 - 70	US \$ 60 - 80

Exchange rate based: 1 USD ~ 6.8 CNY, 1 EUR ~ 7.8 CNY



24th IEEE International Symposium on High Performance Computer Architecture

24-28 February 2018 | Vienna, Austria

Platinum Supporters



Gold Supporters

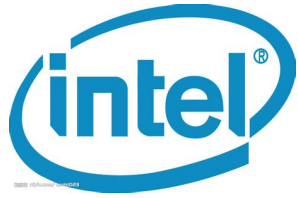


Silver Supporters



- Beijing-based Companies are the major contributors to HPCA 2018, with total of \$24K
- Additional companies have already committed with at least \$100K:
 - DeePhi, Smart-co, Cambricon, Bitmain, Huawei, Shugun
- Abundant financial support can significantly reduce registration fee and enable student travel grants, to help increase the attendance for HPCA/CGO/PPOPP 2021!

□ Most of the global IC companies set sites in Beijing



Total Cost

- Hotels
 - \$150/night at Crowne Plaza hotel with 5-stars
 - \$100/night at Holiday-Inn with 4-stars (<5 minutes walking distance)
 - \$50-80/night at other hotels with 3-stars or less (<15 minutes walking distance)
- Expected conference registration fee
 - Regular registration: \$450
 - Student registration: \$250
 - Low registration fee enabled by abundant industry sponsorship (already 100K committed)
- Plane tickets
 - \$1100 from San Francisco (order two months ago, include tax)
 - \$1250 from New York or Chicago (order two months ago, include tax)
- Other cost
 - Food, Taxi, Shopping are less expensive than in US or Europe (but not in hotel)

Conference Banquet

- ❖ Quanjude Beijing Duck
 - Century-old restaurant



Social Event

❖ Laoshe Teahouse

- **Exciting cultural place at Qianmen**
 - Various short shows, kaleidoscopic view of Beijing culture
- **Schedule**
 - Get to Teahouse at 7:00pm, Dinner start at 7:30
 - Leave at 9:30pm
 - TianAnMan Square about half an hour
 - Back to Hotel at 10:30pm
 - Cost about \$80/person



<http://www.laosheteahouse.com/video.html>

Proposed Excursion – Plan 1

- Houhai Alleyway & Prince Gong's Mansion
 - Departure at 1:30pm from Crowne Plaza
 - Get to Houhai at 2:00pm, get to Prince Gong's mansion at 3:30pm
 - Leave at 5:00pm
 - Cost about \$20/person



Proposed Excursion – Plan 2

- Royal Mausoleum of Ming Dynasty
 - Departure at 1:30pm from Crowne Plaza
 - Get to Royal Mausoleum at 2:30pm
 - Leave at 5:00pm
 - Cost about \$20/person



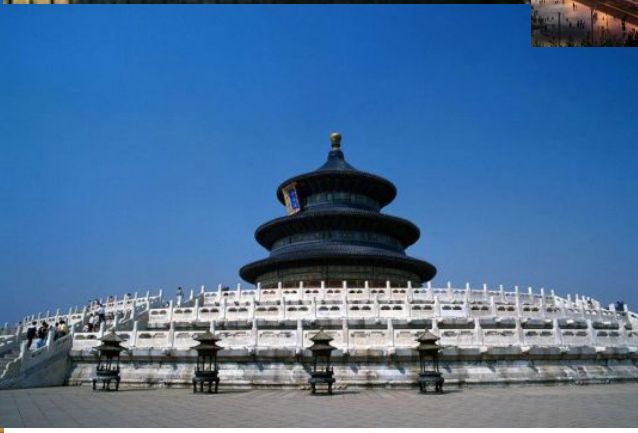
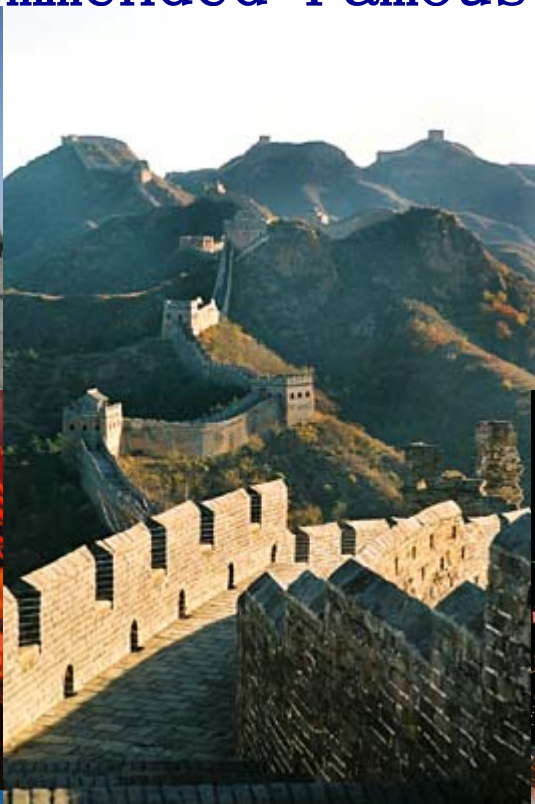
Proposed Excursion – Plan 3

❖ Cuandixia Village

- Departure at 1:30pm from Crowne Plaza
- Get to Cuandixia Village at 3:30pm
- Leave at 5:00pm
- Cost about \$30/person



Recommended Famous Sights



Tourist Information Useful Links

- <http://www.thechinaguide.com/index.php>
- <http://english.visitbeijing.com.cn/>
- <http://www.chinatravelcompass.com/beijing/>



Welcome to Beijing

**Institute of Computing Technology
Peking University**

Agenda

- TCCA Overview
- HPCA 2018
 - GC: Mike Gschwind
 - PC: Yuan Xie
- HPCA 2019
 - GC: Ahmed Louri & Guru Vankataramani
 - PC: Rajeev Balasubramonian & Viji Srinivasan
- HPCA 2020 and Beyond
- ISCA 2018 and 2019
- Reviewing Reviewing Committee

ISCA 2018

Los Angeles, CA – June 2-6, 2018

<http://iscaconf.org/isca2018/>

General Chairs

– Timothy M. Pinkston & Murali Annavaram (USC)

Program Chair

– Babak Falsafi (EPFL)



ISCA 2019

Part of FCRC – June 22-28, 2019

Phoenix, AZ

General Chair: Bobbie Manne (Cavium)

Program Chair: TBD



Agenda

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 - PC: Rajeev Balasubramonian & Viji Srinivasan
- HPCA 2020 and Beyond
- ISCA 2018 and 2019
- Reviewing Reviewing Committee

Reviewing Reviewing (R2) Committee

David Kaeli

Reviewing Reviewing (R2) Committee

- T. N. Vijaykumar's presentation at ISCA 2016
- Joint SIGARCH/TCCA R2 Committee was formed
 - David Kaeli, Northeastern U (Co-Chair)
 - Christos Kozyrakis, Stanford U (Co-Chair)
 - Natalie Enright Jerger, U Toronto
 - Gabriel Loh, AMD Research
 - Tom Wenisch, U Michigan
 - David Wood, U Wisconsin
- Survey was conducted during Spring 2017
- Initial results were reported at ISCA 2017

2017 Questionnaire

Key issues identified

- ISCA should be affiliated with a journal (pre or post?)
- ISCA program committee needs to rethink reviewer load and PC makeup
- ISCA should consider how to utilize statistics from HotCRP review system to aid future chairs in constructing their PCs

Actions/discussions

- Considering models for ISCA 2019 – Sigmetrics has one such model that is under consideration
- Considering how to establish a journal with ISCA
- Developing a comprehensive diversity policy for ISCA
- Considering non-controversial uses of PC data out of HotCRP

Continuing Our Work

- Any input, please feel free to talk to one of the R2 committee members
- Hope to have a plan to present at ISCA 2018 Business Meeting
- Working toward changes for ISCA 2019

Looking for feedback on

- Rolling submissions of ISCA may have potential overlap with HPCA and other architecture-related meetings
- Opinions on journal vs. conference-first models