



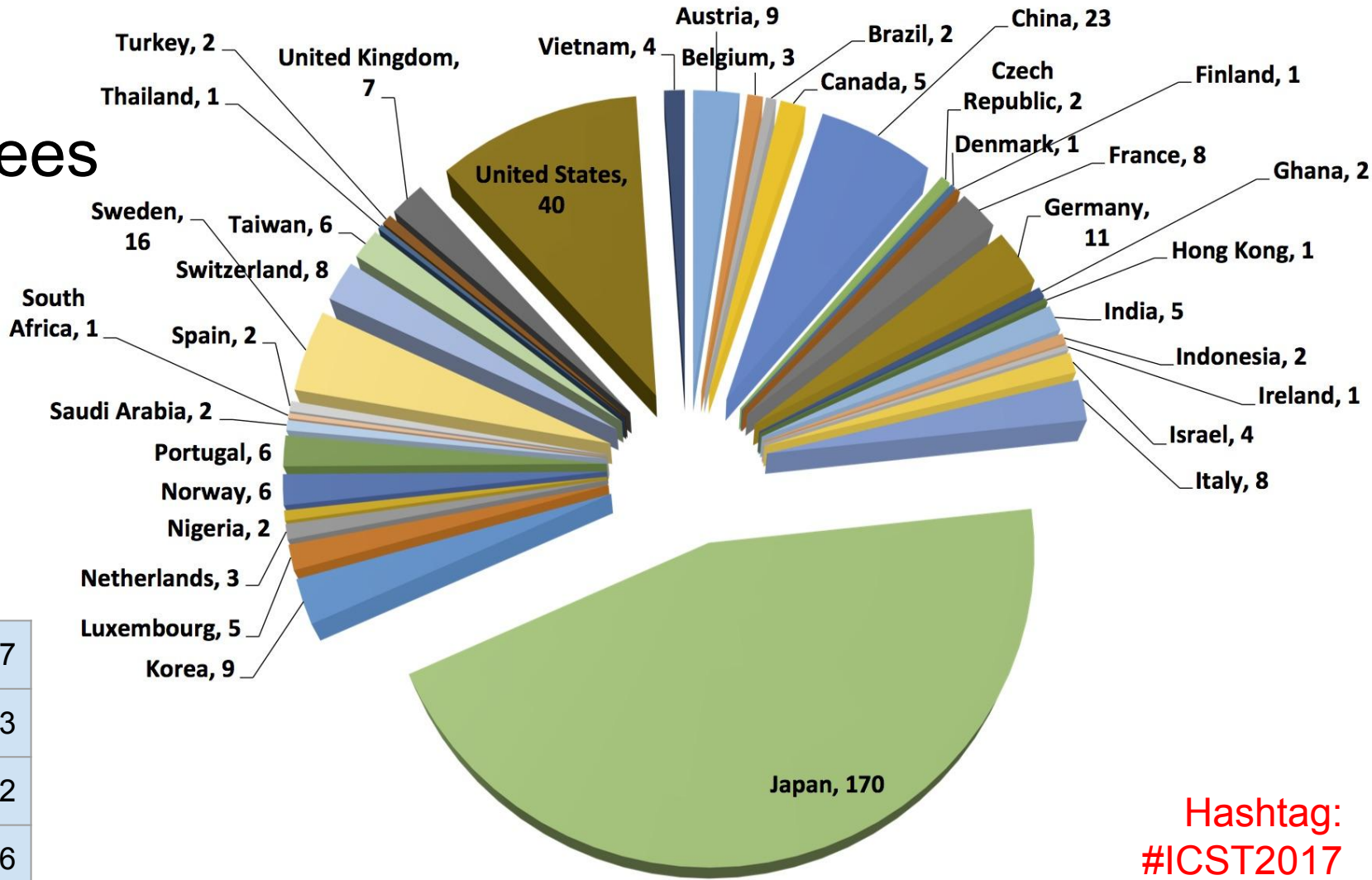
Welcome to ICST 2017 Day-1

General Chairs: Yasuharu Nishi and Atif Memon

The conference offers

- I nteresting presentations
- C hallenging thoughts
- S trong results
- T ailored demonstrations

378 Attendees



Univ.	167
Industry	163
Institutes	32
Others	16

Hashtag:
#ICST2017

Sponsors

Conference sponsors



Association of Software
Test EngineerRing



Global Software
Engineering Laboratory,
Waseda University

Sponsors

Platinum sponsors



Gold sponsors



Silver sponsors



Bronze sponsors



HITACHI

Copper sponsors



Government sponsorship



Special sponsorship



Multi-Track Event - Best of Research & Practice

- Research Issues in Software Testing
 - Technical Research Track
 - Doctoral Symposium
 - Posters Track
- Applying Software Testing
 - Industry Track
 - Testing Tools Papers Track
 - Testing Tools Demonstrations Track
 - Software Testing Contest

Workshops (yesterday)

March 13, 2017

TAIC PART: Testing: Academia-Industry Collaboration, Practice and Research Techniques

<http://www2017.taicpart.org/>

ITEQS: International Workshop on Testing Extra-Functional Properties and Quality Characteristics of Software Systems

<http://www.mrtc.mdh.se/ITEQS/2017/>

Mutation: Mutation Analysis

<https://sites.google.com/site/mutation2017/>

IWCT: International Workshop on Combinatorial Testing

<http://iwct2017.sba-research.org/>

Workshops (Friday)

March 17, 2017

InSTA: International Workshop on Software Test Architecture

<http://aster.or.jp/workshops/insta2017>

A-MOST: Advances in Model Based Testing

<http://a-most17.zen-tools.com/>

ACSE: Asian Symposium on Collaborative Software Engineering

<http://www.aster.or.jp/conference/icst2017/program/acse.html>

Doctoral Symposium

Main Conference Program Events

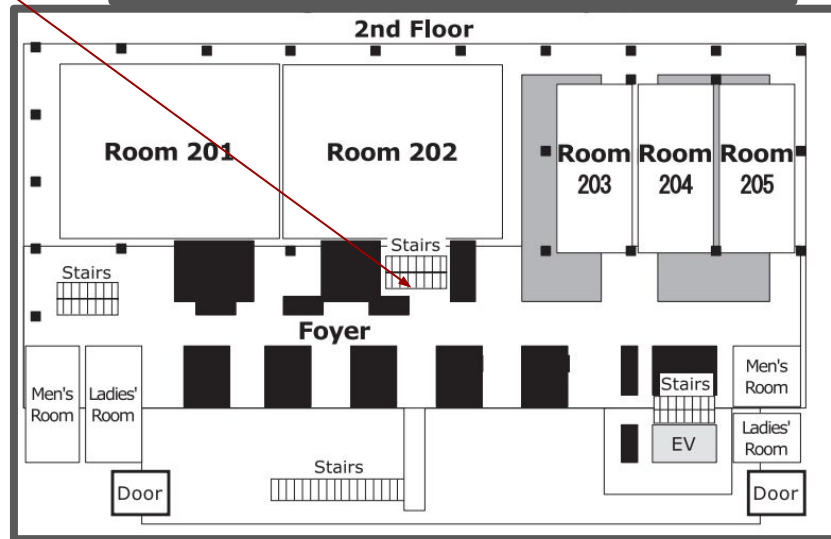
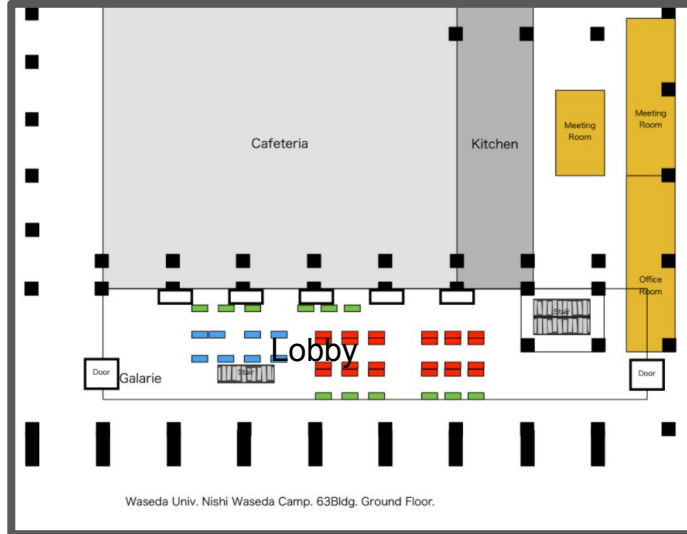
- Keynotes
 - **John Micco** (Google) on *The State of Continuous Integration Testing at Google*
 - **Kenji Nishikawa** (Toyota) on *Testing & Validation Requirements for Automated Driving Technology*
 - **Andreas Zeller** (Saarland University) on *Model-Based Testing and Model Inference: Better Together!*
- Special Sessions
 - **Tatsuo Tomita** (IT Promotion Agency - IPA) on *Aiming to realize a "Reliable IT Society"*
 - **Takaaki Matsumoto** (IPA) on *Systematic Approach toward Dependable System Development*
 - **Koichi Tanizaki** (Veriserve) on *R&D activities on test processes, analysis and design in Veriserve*
 - **Justin R. Morris** (NASA) on *Usage of software testing at NASA IV&V (with VIDEO)*
 - **Maria Hernek** (ESA) on *Independent Software V&V of Flight Software Development*
 - **Naoko Okubo** (JAXA) on *How JAXA uses software testing for IV&V, and what is the needs*
 - **Hideki Nomoto** (Japan Manned Space Systems) on *Integrated Formal Analysis for Software IV&V*

Main Conference Program Events

- Panels
 - *Bleeding-Edge Testing Challenges that the Software Industry Faces - an Invitation to Researchers to Address these Challenges*
 - Session chair: **Atif Memon** (University of Maryland)
 - Panelists:
 - **John Micco** (Google), **Bao Nguyen** (Google), **Murat Ozturk** (Google), **Adithya Nagarajan** (Apple)
 - *Quality and testing in Software Engineering curriculum*
 - Session chair: Shlomo Mark (SCE)
 - Panelists:
 - **Ina Schieferdeker** (Fraunhofer FOKUS), **Tanja Vos** (Open University in The Netherlands), **Shuji Morisaki** (Nagoya University), **Jens Krinke** (University College London)
- Open Steering Committee Meeting

Conference Layout

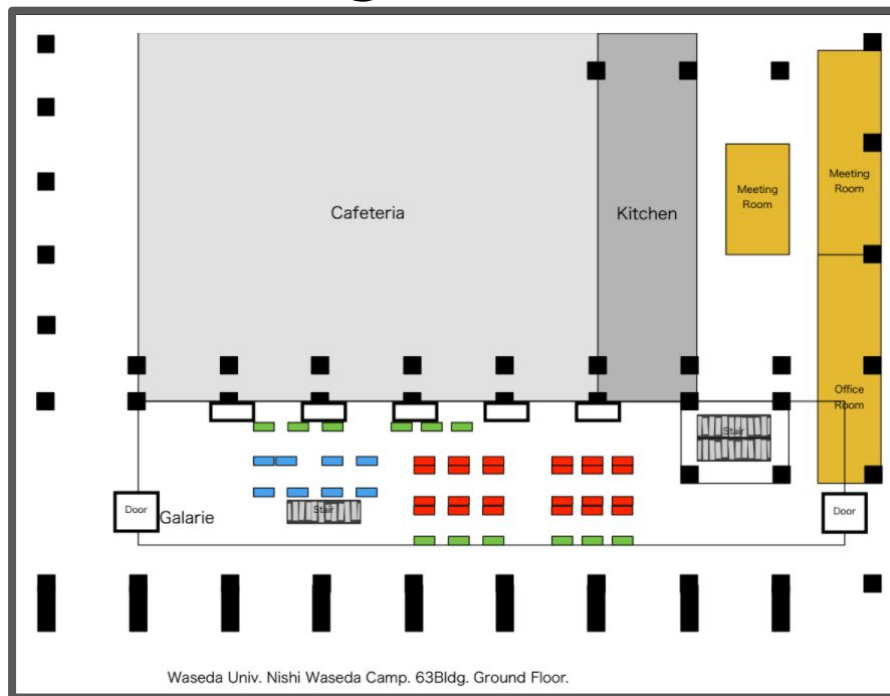
- Registration (2nd Floor; Foyer)
- Breakfast (Ground Floor; 8:15)
- Sessions (Room 201-204)
- Breaks (Ground floor; 10:30 & 15:30)
- Lunch (in Conference rooms, Lobby and Cafeteria; 12:30-14:00)
- Demos (Room 204, Tue; 11:00)
- Contests (Room 204, Wed; 11:00)
- Posters (Ground floor - red boxes; Tuesday afternoon - Thursday morning)



Social Events

Welcome Reception Tonight

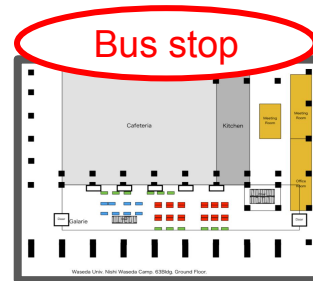
- Time: 19:00-21:00
- Cafeteria on the 1st Floor of Building 63



Social Events

Banquet Tomorrow Night

- Two venues in the same skyscraper “Sunshine 60” in Ikebukuro
 - You can enjoy a wonderful night view
- Main venue: Restaurant: “Sunshine Cruise Cruise”
 - This is not a cruise; it’s a restaurant!!
 - Conversation in English
- Satellite venue: Restaurant “Ocean Casita”
 - Conversation in Japanese
 - No needs for pre-subscription
- Banquet Starts at Time: 7:30PM
- Transportation: Buses
 - From the university and back to stations and hotels
 - To get directions via Google Maps:
<https://goo.gl/maps/xT9c9FUUqxo>



ICST 2017

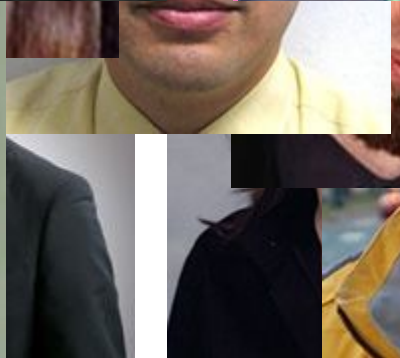
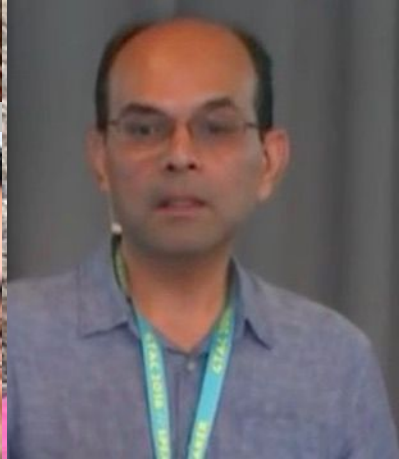
13-17 March 2017,
Tokyo, Japan

Hashtag: #ICST2017

Volunteers & Staff



Organizing Team



Notices from Local arrangement chairs

Chio Fujimoto and Satomi Yoshizawa

- WiFi - Refresh every 2 hours!
- Check everything is in your bag
 - “Certification” is in your badge



Notices from Local arrangement chairs

Chio Fujimoto and Satomi Yoshizawa

- Never take a receiver out to your home!
 - 同時通訳用レシーバーは必ず返却してください
- Questions should be asked in English
 - 質疑応答時の質問は英語でお願いします。日 → 英の同時通訳はありません。
- In case of emergency situations , please follow the local team members.
- Don't hesitate to come to the registration desk if you have any question or problem



ICST 2017

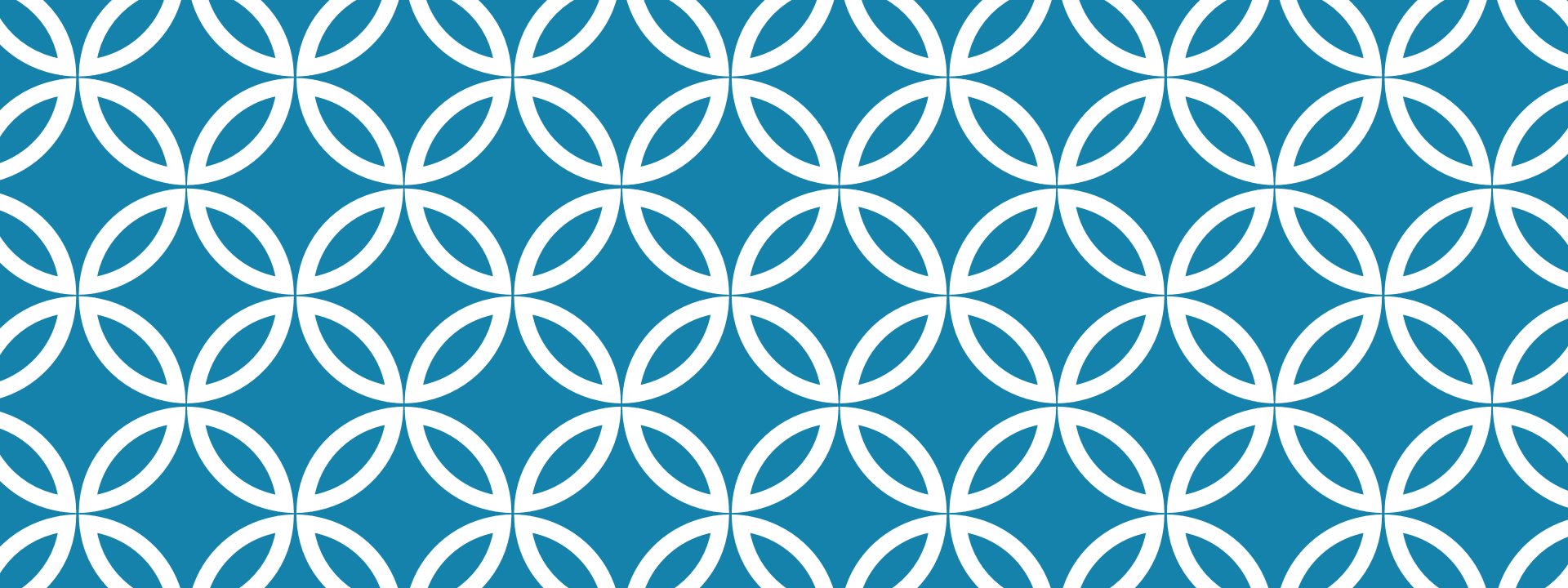
13-17 March 2017,
Tokyo, Japan

Greetings from guests

Mr. Kenji Onishi

Vice president

ASTER, Association of Software Test EngineerRing Japan
(The co-organizer with IEEE of ICST 2017 Tokyo)



WELCOME TO ICST

2017/14th /March

ABOUT ASTER



ASTER : Association of Software Test Engineering

is a non-profit organization which undertakes research, promotion, education and international collaboration for software testing and software quality. ASTER was established at Tokyo in 2006. Our Directors and members are working as volunteers.

This NPO is constituted by industry-university experts.

URL: <http://aster.or.jp/>

FACE OF LEAGUE

JaSST'03 Tokyo



JaSST'17 Tokyo

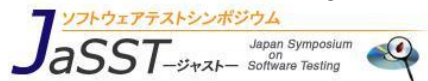


ABOUT ASTER

ASTER

Symposium

Japan Symposium on
Software Testing



Software Test Design Contest



JSTQB



R&D

Zengo Award

Study Groups

International
Activities

ICST 2017

InSTA 2017

ASTA

ISO/IEC
JTC1/SC7/WG26

Education

ICST 2017

13-17 March 2017,
Tokyo, Japan

Greetings from guests

Mr. Yoichi Fujii

President

IVIA, IT Verification Industry Association

ICST 2017

13-17 March 2017,
Tokyo, Japan

Welcome to Waseda University! Welcome to the Research Track!

PC Chairs:

Ina Schieferdecker

Fraunhofer FOKUS / Technische Universität Berlin, Germany

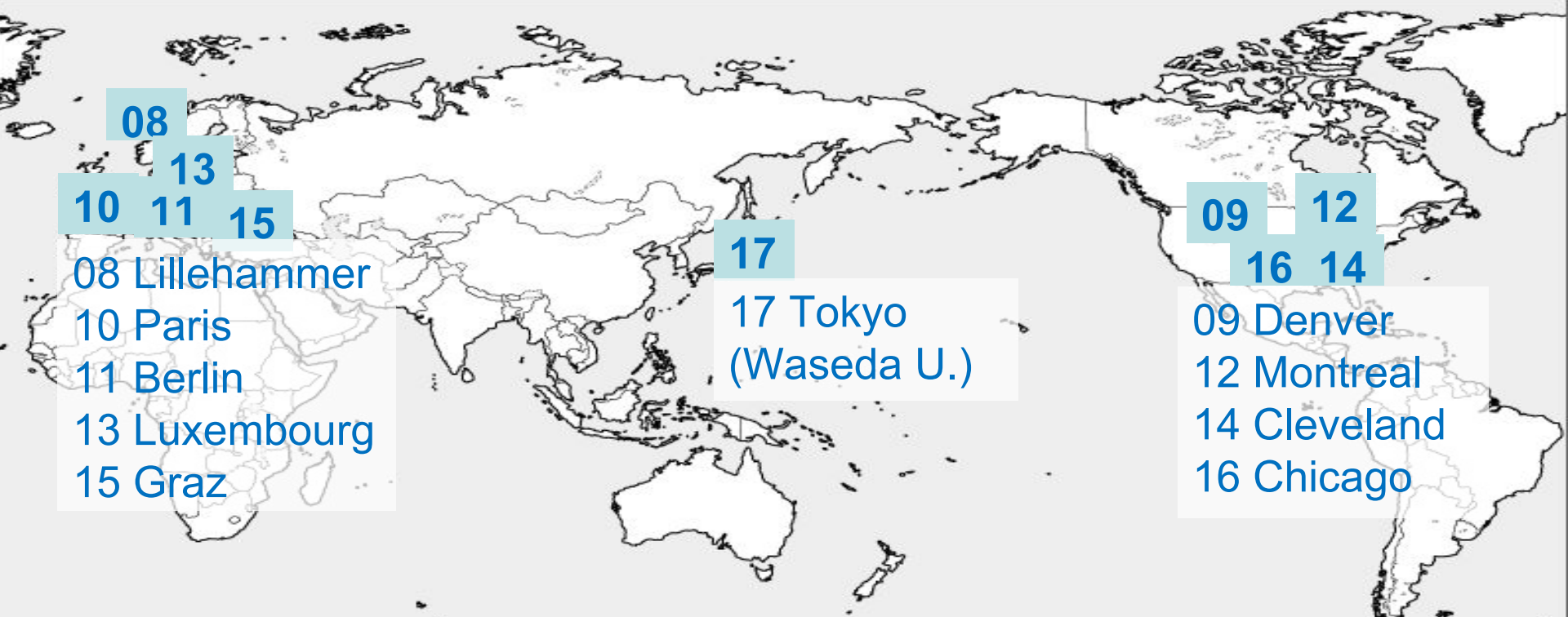
Hironori Washizaki

Waseda University, Global Software Engineering Laboratory
/ National Institute of Informatics / SYSTEM INFORMATION, Japan



ICST 2017

13-17 March 2017,
Tokyo, Japan



08

13

10 11 15

08 Lillehammer

10 Paris

11 Berlin

13 Luxembourg

15 Graz

17

17 Tokyo
(Waseda U.)

09

12

16 14

09 Denver

12 Montreal

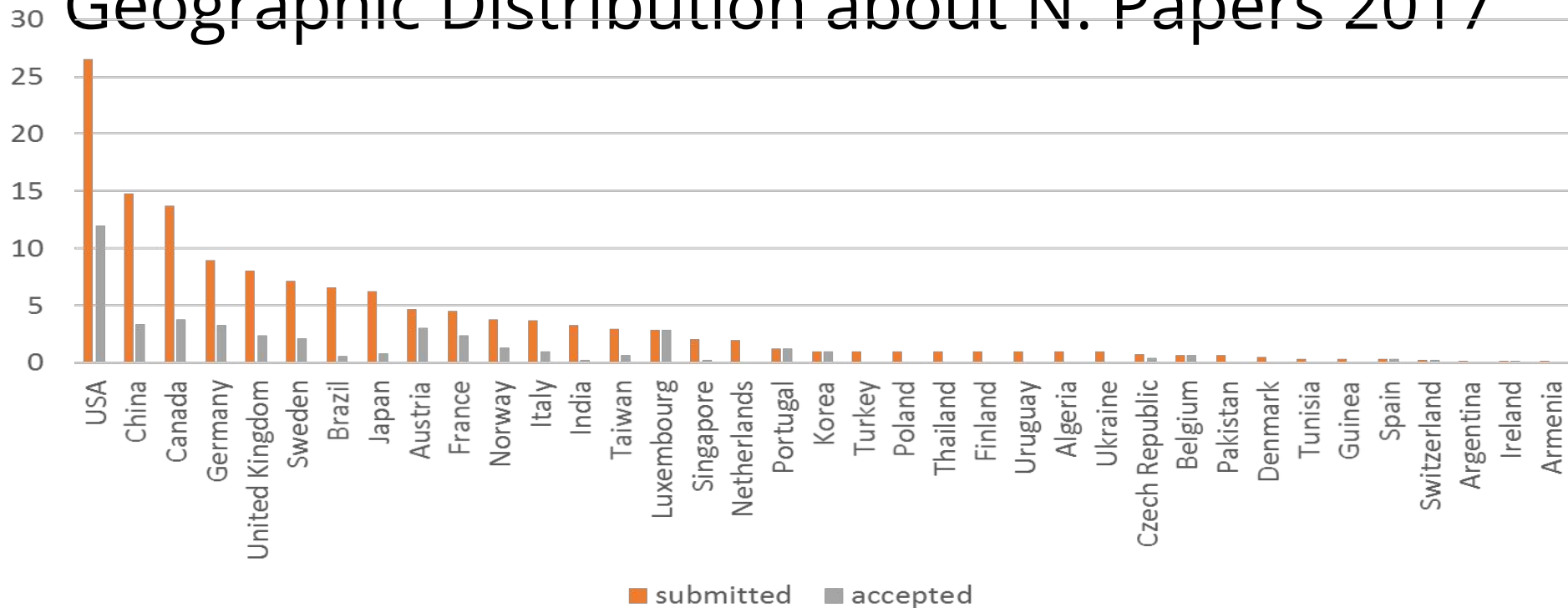
14 Cleveland

16 Chicago

ICST 2017

13-17 March 2017,
Tokyo, Japan

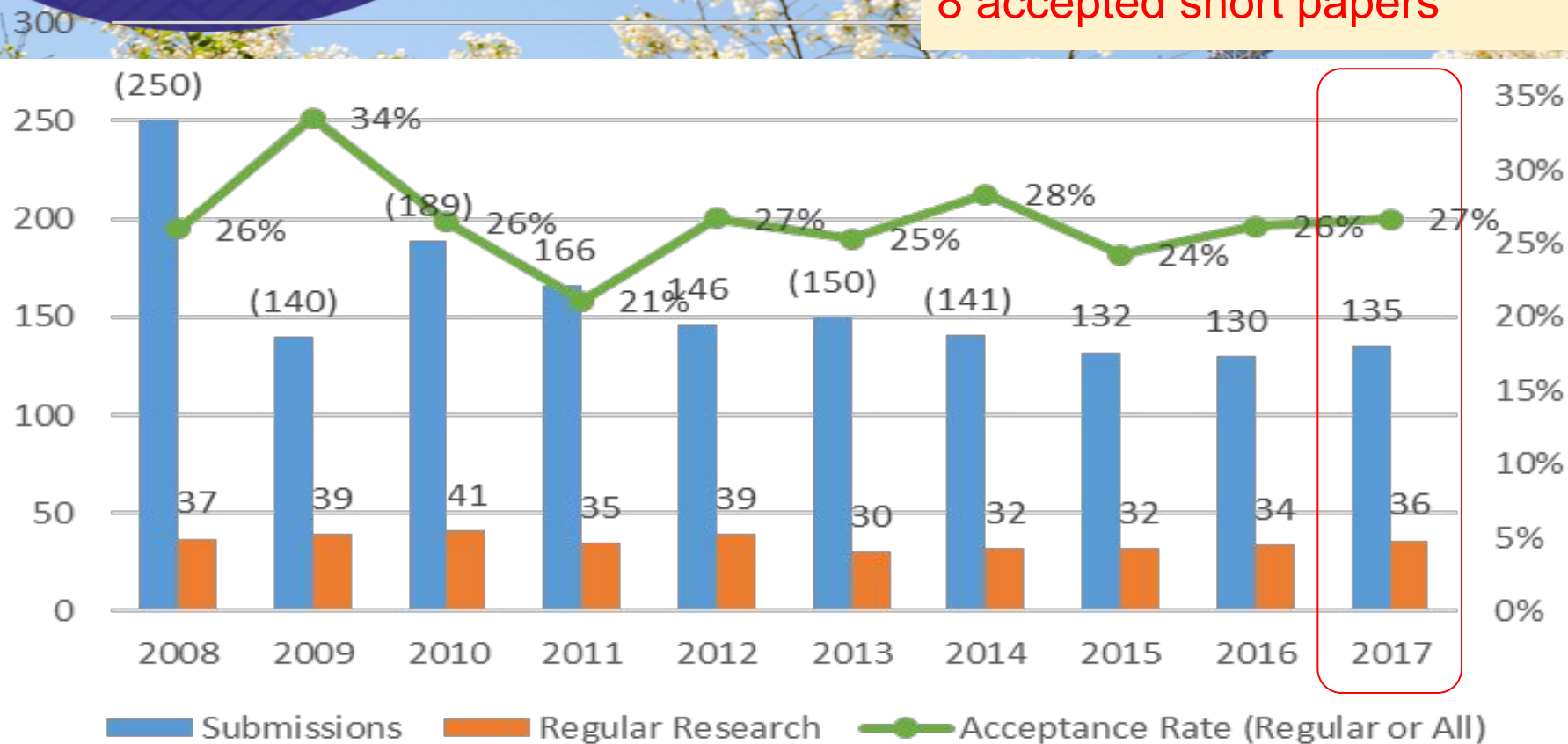
Geographic Distribution about N. Papers 2017



ICST 2017

13-17 March 2017,
Tokyo, Japan

135 submissions
36 accepted full papers (27%)
8 accepted short papers



Papers Nominated for Best Paper Award

- *Efficient Incrementalized Runtime Checking of Linear Measures on Lists*, Alex Gyori, Pranav Garg, Edgar Pek and P. Madhusudan.
- *Symbolic Complexity Analysis using Context-preserving Histories*, Kasper Luckow, Rody Kersten and Corina Pasareanu.
- *Incremental Deductive Verification for Relational Model Transformations*, Zheng Cheng and Massimo Tisi.
- *CBGA-ES: A Cluster-Based Genetic Algorithm with Elitist Selection for Supporting Multi-objective Test Optimization*, Dipesh Pradhan, Shuai Wang, Shaukat Ali, Tao Yue and Marius Liaaen.
- *The Fitness Function for the Job: Search-Based Generation of Test Suites that Detect Real Faults*, Gregory Gay.
- *JavaScript: The (Un)covered Parts*, Amin Milani Fard and Ali Mesbah.

ICST 2017

13-17 March 2017,
Tokyo, Japan

Best Paper Award

- *Symbolic Complexity Analysis using Context-preserving Histories*
Kasper Luckow, Rody Kersten and Corina Pasareanu.
Room 201, 14:00-15:30 Mar 14

Best Reviewer Awards (for PC members)

- will be announced at the dinner on Mar 15

Best Presentation Award (for full papers)

- Remember to vote!
- will be announced at the closing session on Mar 16

<http://bit.ly/icst2017>

Industry Track

Program Chairs:

- Bao Nguyen, Google, USA
- Xun Yuan, Google, USA

Program Committee:

- Cyrille Artho, KTH Royal Inst. of Tech.
- Ishan Banerjee, VMware, USA
- Teng Long, Google, USA
- Adithya Nagarajan, Apple, USA
- Hung Nguyen, Google, USA
- John Penix, Google, USA
- Qing Xie, Auction.com, USA

- Total submissions: 18
- Accepted papers: 5
- Acceptance rate: 28%

Best Industry Track Paper:

Towards A Testbed for Automotive Cybersecurity **Daniel Fowler, Madeline Chesh, Jeremy Bryans and Siraj Shaikh**

Testing Tools PAPERS Track

Program Chairs

- Domenico Amalfitano, Italy
- Tatsuhiro Tsuchiya, Japan

Program Committee

- Mariano Ceccato, Italy
- Eun-Hye Choi, Japan
- Damiano Distanto, Italy
- Takashi Ishio, Japan
- Yang Liu, Singapore
- Ana Paiva, Portugal
- Karthik Pattabiraman, Canada
- Alexander Pretschner, Germany
- José Miguel Rojas, UK
- Stefano Scala, Italy
- Hideo Tanida, Japan
- Porfirio Tramontana, Italy
- Xiao Qu, USA
- Zijiang Yang, USA

- Total submissions: 29
- Accepted papers: 10
- Acceptance rate: 34%

Best Tools Track Paper

Accelerating Test Automation through a Domain Specific Language

Anurag Dwarakanath, Dipin Era, Aditya Priyadarshi, Neville Dubash and Sanjay Podder.

Tool DEMOS Track

PC Chairs

- Ana C. R. Paiva
- Zhenyu Chen

- Submitted: 8
- Accepted: 7

Remember to vote for Best Demo Award!

POSTERS Track

PC Chair

- Pekka Aho, VTT, Finland

PC Members

- Ceren Şahin Gebizli, Vestel Electronics, Turkey
- Teemu Kanstrén, VTT, Finland
- Olli-Pekka Puolitaival, Polar Electro, Finland

- 16 submissions
- 13 accepted

**Remember to vote for
Best Poster!!**

ICST 2017

13-17 March 2017,
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Today's Keynote



The State of Continuous Integration Testing at Google

John Micco, Google, USA