



# 45th International Conference on Software Engineering

Melbourne Convention and Exhibition Centre

14-20 May 2023

<https://conf.researchr.org/home/icse-2023>

# Intro from the program co-chairs



Lori Pollock  
*Univ. of Delaware, USA*



Massimiliano (Max) Di Penta  
*Univ. of Sannio, Italy*



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# Reviewing process: the roles

**Program co-chairs:** Initial scope, conformance, and plagiarism check, paper assignment, oversee the whole process

**Area chairs:** Check scope, ensure review consistency and quality check, oversee discussion, make final call

**Program committee:** Reviewing, lightweight artifact checking, papers' discussion

# Reviewing process: new this year

Artifact check: Lightweight artifacts assessment by one reviewer

Area chairs selected (also) based on the authors' indication

Multiple area chairs for “crowded” areas

Second response phase for papers where this was considered useful



# Ten Area Chairs

Ensured consistent reviewing within a given area of interest  
Made the call for undecided papers (if needed)



SE with and for AI:

- David Lo
- Denys Poshyvanyk



Analysis and Testing:

- Myra Cohen
- Corina Pasareanu



Software Analytics:

- Bram Adams
- Kelly Blincoe



Software Dependability:  
• Abhik Roychoudhury



Software Evolution:  
• Andrian Marcus



Social Aspects:  
• Margaret-Anne (Peggy) Storey



Req, Modeling and Design:  
• Walid Maalej



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# 194 PC Members

Alberto Bacchelli, Alejandra Garrido, Alessandro Garcia, Alessandro Orso, Alessio Ferrari, Alexander Egyed, Alexandre Bergel, Amel Bennaceur, Amjad Tahir, Ana Milanova, Anastasia Mavridou, André van der Hoek, Andrea Di Sorbo, Andreas Vogelsang, Andreas Zeller, Andrzej Wąsowski, Andy Zaidman, Anthony Cleve, Antonia Bertolino, Antonio Filieri, Audris Mockus, Bach Le, Barbara Russo, Barbora Buhnova, Bernd Fischer, Bogdan Vasilescu, Bonita Sharif, Breno Miranda, Brittany Johnson, Caitlin Sadowski, Carolyn Seaman, Chao Wang, Christian Bird, Christine Julien, Christoph Becker, Christoph Treude, Chunyang Chen, Ciera Jaspan, Claire Le Goues, Collin McMillan, Cristian Cadar, Cristina David, Dalal Alrajeh, Daniel Russo, David C. Shepherd, Davide Di Ruscio, Diomidis Spinellis, Divya Gopinath, Dongsun Kim, Elena Sherman, Elise Paradis, Emelie Engström, Emerson Murphy-Hill, Eric Bodden, Fabian Fagerholm, Fabio Palomba, Federica Sarro, Fei He, Fiorella Zampetti, Foutse Khomh, Francisco Servant, Gema Rodríguez-Pérez, Giuliano Antoniol, Giuseppe Scanniello, Gordon Fraser, Gregorio Robles, Gunel Jahangirova, Guowei Yang, Gustavo Pinto, Hao Zhong, Hausi Muller, Iftekhar Ahmed, Igor Steinmacher, Ina Schaefer, Irit Hadar, Ivan Beschastnikh, Ivano Malavolta, James Clause, Jane Cleland-Huang, Janet Siegmund, Jason (Minhui) Xue, Jennifer Horkoff, Jesus M. Gonzalez-Barahona, Jian Zhang, Jie Zhang, Jin L.C. Guo, Jon Whittle, Jonathan I. Maletic, Joshua Garcia, Juan P. Galeotti, Julia Lawall, Julia Rubin, Jürgen Cito, Justyna Petke, Katja Kevic, Kevin Moran, Kevin Sullivan, Kla Tantithamthavorn, Klaas-Jan Stol, Kostadin Damevski, Leandro Minku, Lei Ma, Leonardo Mariani, Li Li, Liliana Pasquale, Lin Tan, Lingming Zhang, Lingxiao Jiang, Luciano Baresi, Marcel Böhme, Marcelo d'Amorim, Marco Tulio Valente, Marianne Huchard, Mark Harman, Markus Borg, Marsha Chechik, Martin White, Mary Lou Soffa, Matthew Dwyer, Michael Pradel, Michele Tufano, Mike Papadakis, Milos Gligoric, Ming Li, Minghui Zhou, Muneera Bano, Naipeng Dong, Neil Ernst, Nenad Medvidovic, Nicole Novielli, Olga Baysal, Oscar Chaparro, Paige Rodeghero, Paola Inverardi, Paola Spoletini, Paolo Tonella, Paris Avgeriou, Patanamon (Pick) Thongtanunam, Patrick Mäder, Peter Rigby, Philipp Leitner, Premkumar Devanbu, Rachel Tzoref-Brill, Rafael Prikladnicki, Raghavan Komondoor, Raula Gaikovina Kula, Reid Holmes, Rene Just, Reyhaneh Jabbarvand, Roberto Pietrantuono, Rohit Gheyi, Romain Robbes, Ruben Martins, Rudolf Ferenc, Rui Abreu, Satish Chandra, Sebastian Baltes, Sebastian Elbaum, Sebastian Proksch, Sebastiano Panichella, Seok-Won Lee, Shahar Maoz, Shane McIntosh, Shaowei Wang, Shiva Nejati, Shiysi Wei, Sigrid Eldh, Sonal Mahajan, Sudipta Chattopadhyay, Tao Xie, Tao Yue, Tapajit Dey, Tegawendé F. Bissyandé, Thomas Fritz, Thomas LaToza, Thomas Thüm, Thorsten Berger, Tim Menzies, Tingting Yu, Valentina Lenarduzzi, Venera Arnaoudova, Wei Le, Wei Yang, Xavier Franch, Xiangyu Zhang, Xin Peng, Yannic Noller, Yasutaka Kamei, Yi Li, Yiling Lou, Ying Zou, Yingfei Xiong, Youcheng Sun, Yvonne Dittrich

# 8 Rapid Reviewers

Cristian Cadar

Davide Di Ruscio

Federica Sarro

Julia Rubin

Leonardo Mariani

Nicole Novielli

Paolo Tonella

Yvonne Dittrich



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# Let's thank our great team!

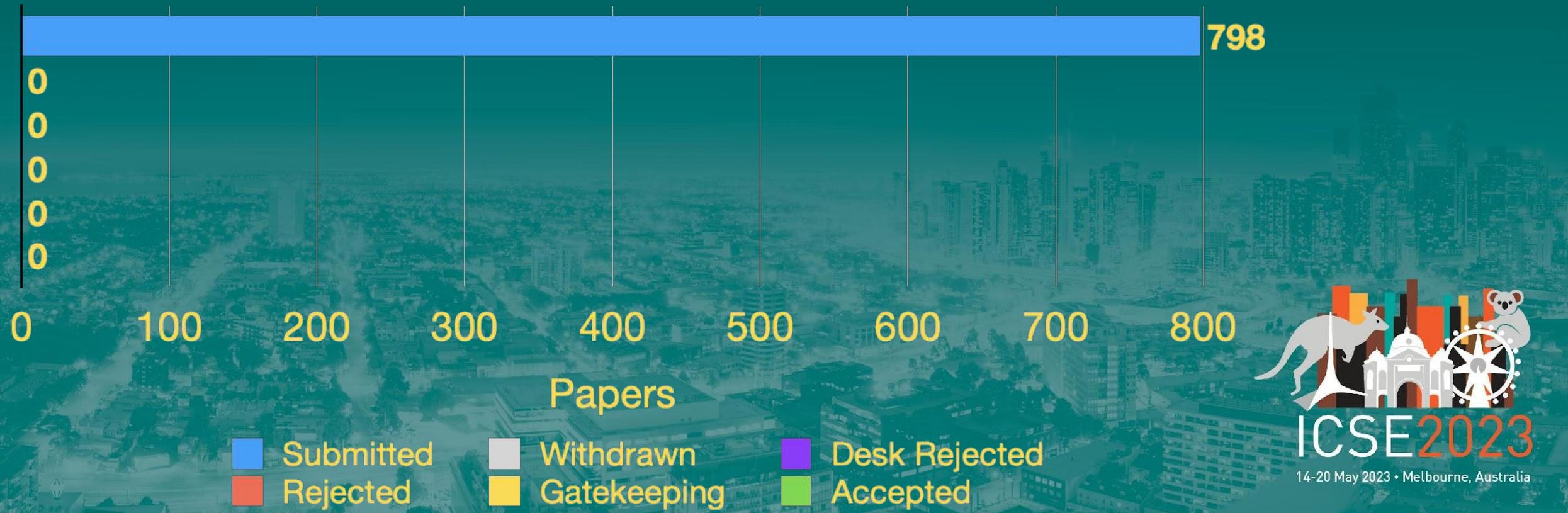


# Reviewing process: timeline

- Sep 1, 2022: Submission deadline
- Sep 3-8, 2022: Bidding
- Sep 9-5: Scope/Conformance/Plagiarism Check, Paper Assignment
- Sep 16: Paper assignment released
- Sep 16-Oct 27, 2022: Reviewing
- Oct 28-Nov 13, 2022: Quality check, additional reviews
- Nov 14-Nov 19, 2022: Author response phase
- Nov 29-30, 2022: Second response phase (for selected papers)
- Dec 1-7, 2022: Discussion, Final decisions
- Dec 9, 2022: Notifications
- Jan 4, 2023: Revised versions for papers under gatekeeping
- Jan 12, 2023: Notification for papers under gatekeeping

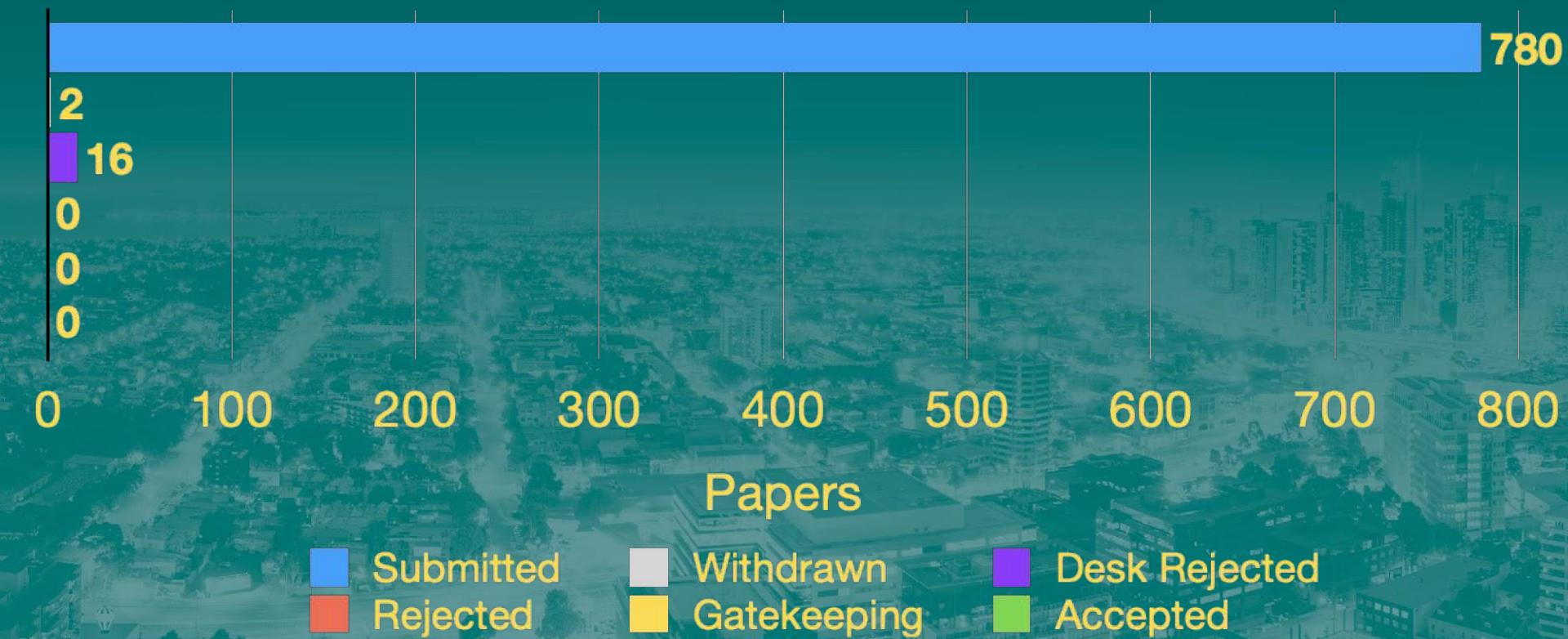
# Reviewing process: submissions

- Sep 1, 2022: Submission deadline



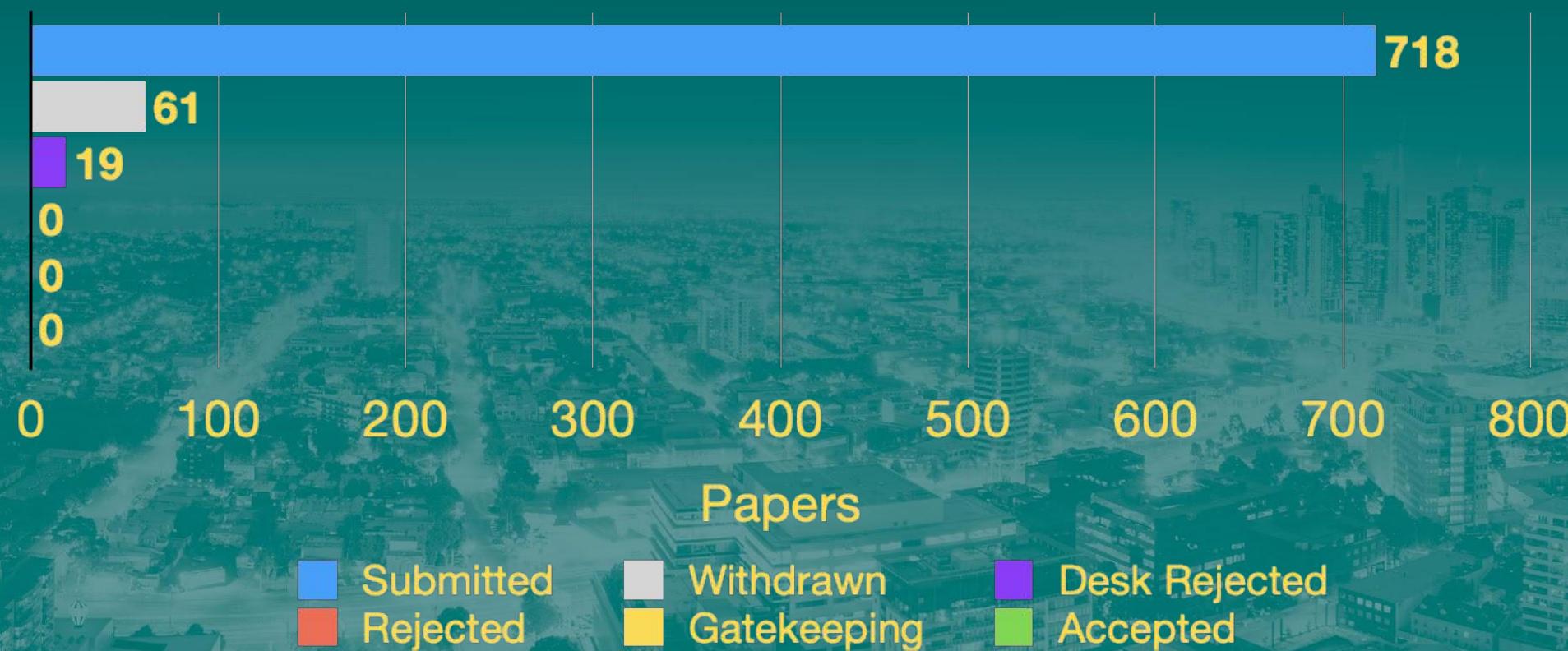
# Reviewing process: assignment

- Sep 3-8, 2022: Bidding
- Sep 9-5: Scope/Conformance/Plagiarism Check, Paper Assignment
- Sep 16: Paper assignment released



# Reviewing process: first response phase

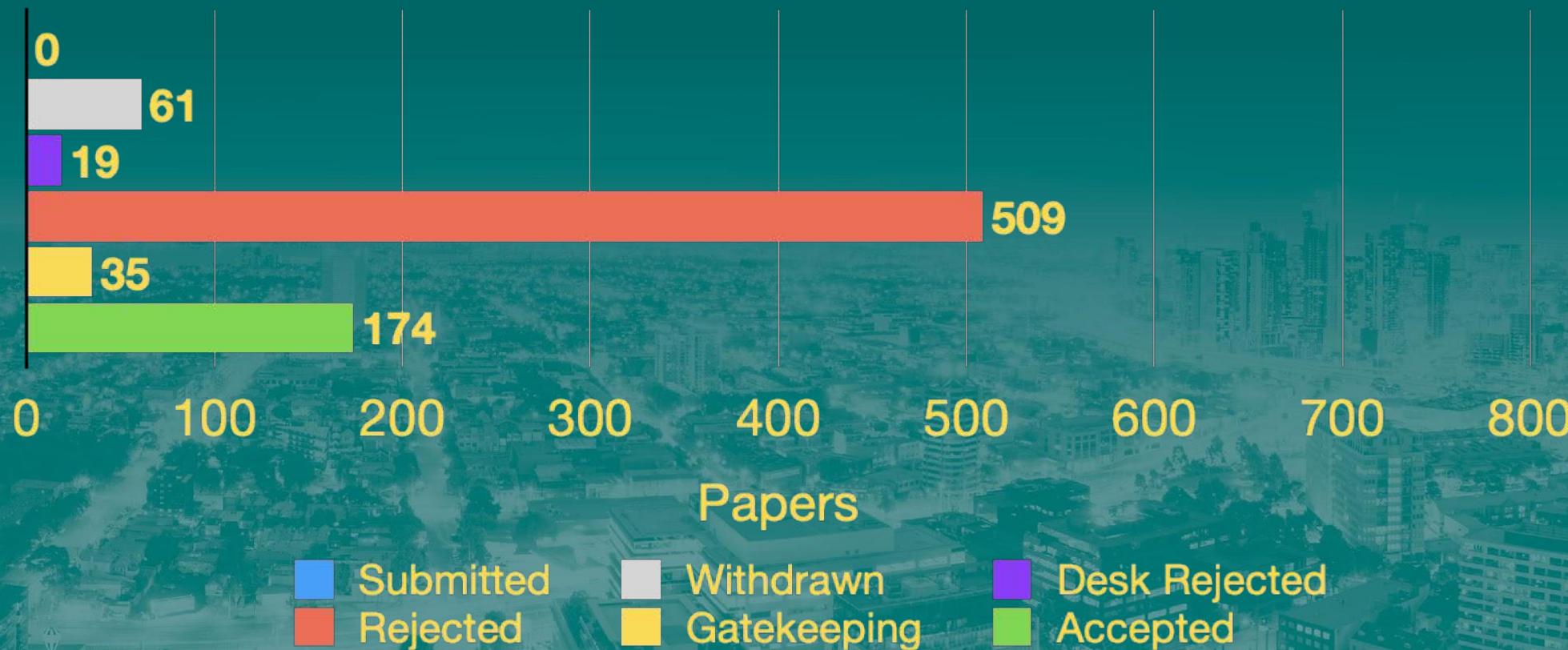
- Sep 16-Oct 27, 2022: Reviewing
- Oct 28-Nov 13, 2022: Quality check, additional reviews
- Nov 14-Nov 19, 2022: Author response phase



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# Reviewing process: notification

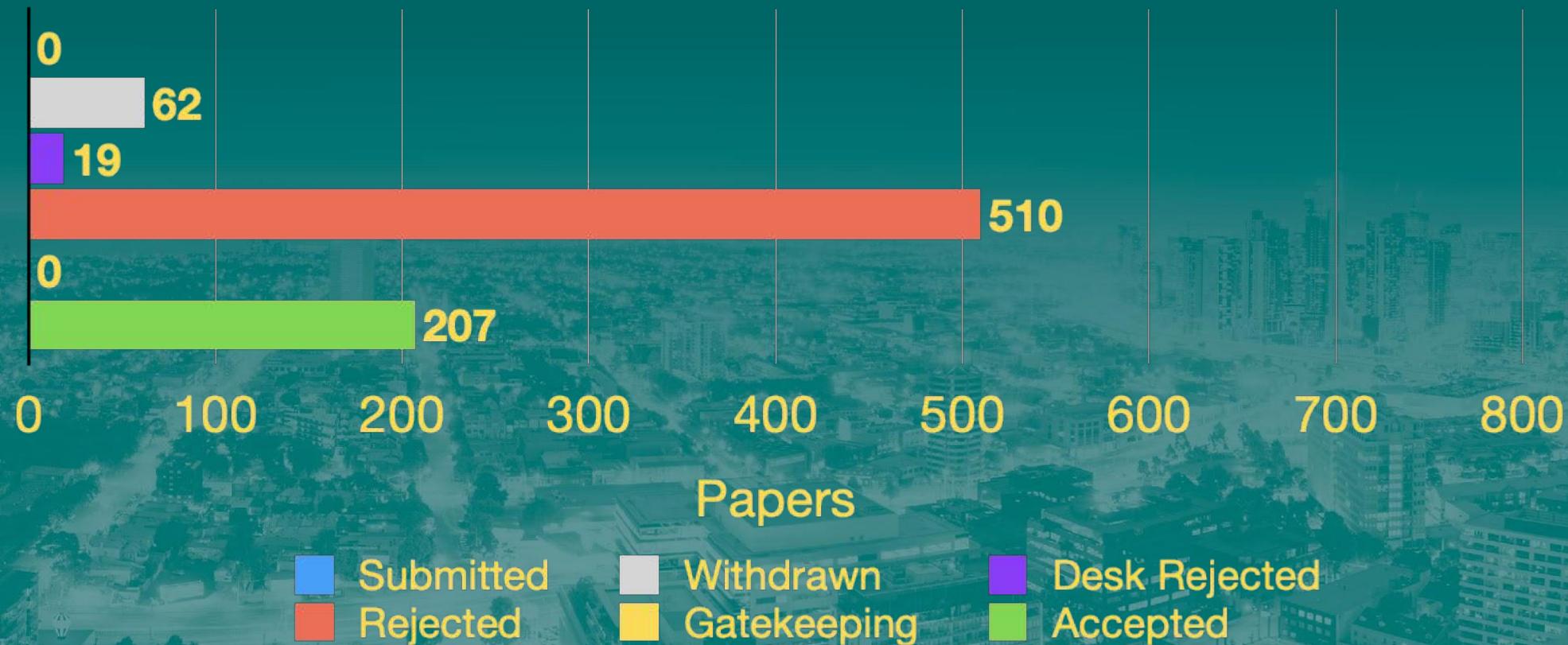
- Nov 29-30, 2022: Second response phase (**requested for 32 papers**)
- Dec 1-7, 2022: Discussion, Final decisions
- Dec 9, 2022: Notifications



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# Reviewing process: gatekeeping

- Jan 4, 2023: Revised versions for papers under gatekeeping
- Jan 12, 2023: Notification for papers under gatekeeping



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# Reviewing process: summary

798 papers submitted

19 desk rejected (3 during the reviewing phase)

780 reviewed

62 withdrawn (mostly after the rebuttal)

208 Accepted (~26%), one withdrawn → 207

34 of which after a gatekeeping phase



# Some statistics about submitted/accepted papers



# Reviewing process in numbers

2,345 reviews

721 metareviews

1,965,408 words in reviews (~220 ICSE papers)

12,292,147 characters (~15.3 Km)

10,559 comments (>13 per paper)



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# What happened during the discussion?

Accepted papers:

All negatives: 0

Mean score <3: 35

With strong reject(s): 9

Strong reject(s) and no strong accept: 3

Rebuttal helped reviewers: 121

Rejected papers:

All positives: 0

Mean score >3: 16

With strong accept(s): 30

Strong accept(s) and no strong rejects: 24

Reviewers felt that rebuttal helped: 25

This refers to scores before the first response phase

# What happened during the discussion?

## Accepted papers:

All negatives: 0

Mean score <3: 35

Rebuttal helped reviewers: 121

## Rejected papers:

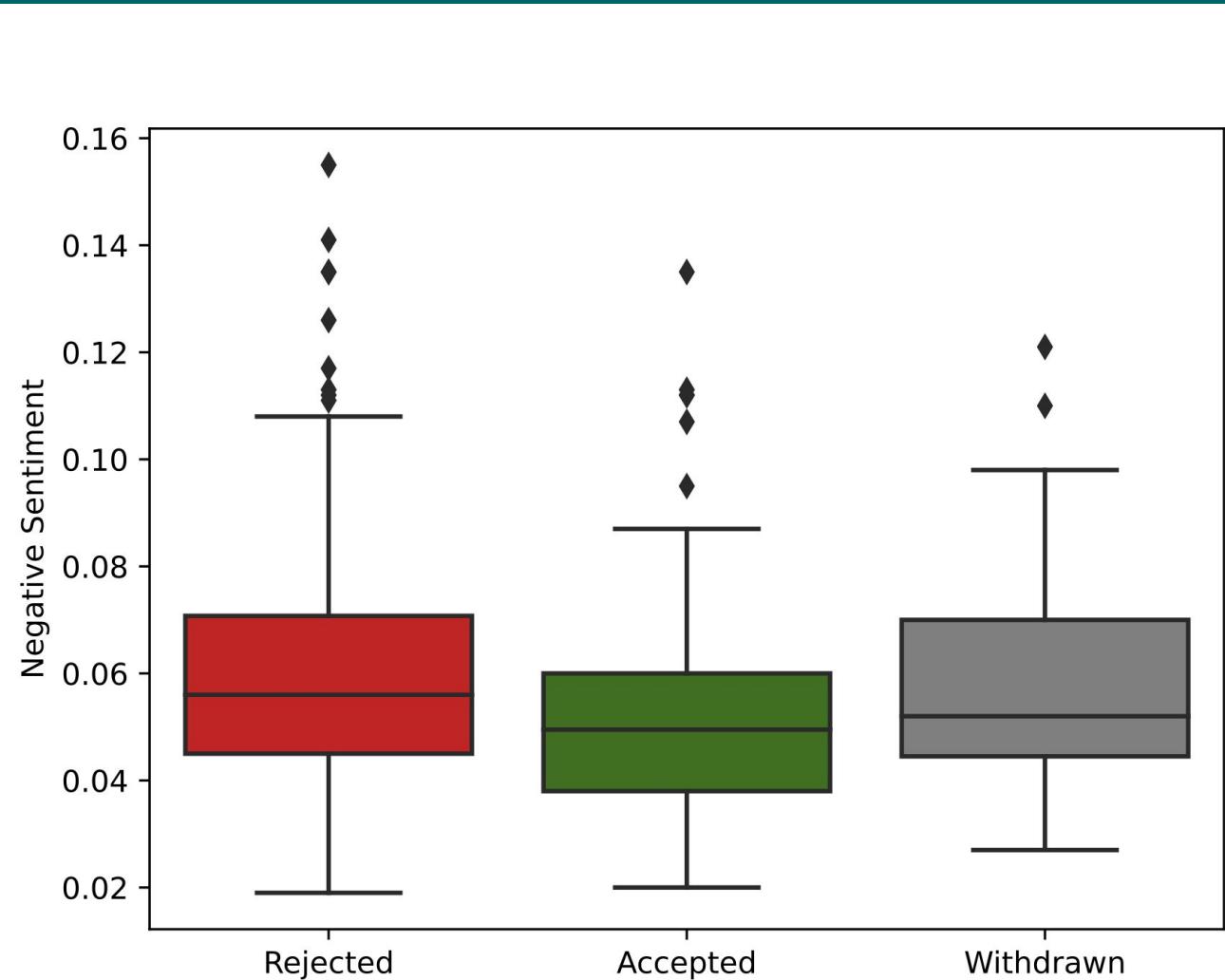
All positives: 0

Mean score >3: 16

Reviewers felt that rebuttal helped: 25

This refers to scores before the first response phase

# Negative sentiment in reviews

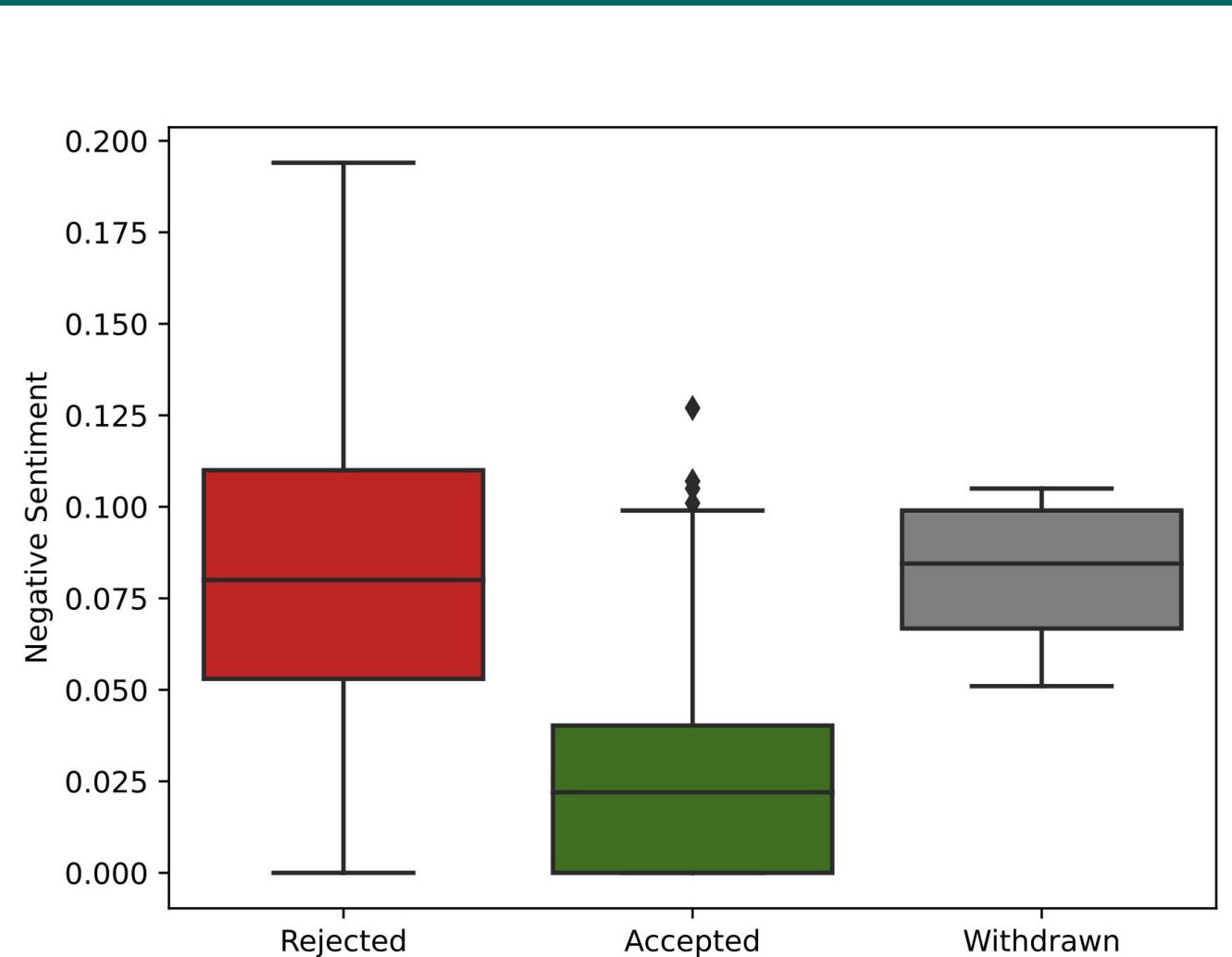


Stat. significant difference

Small effect size



# Negative sentiment in metareviews

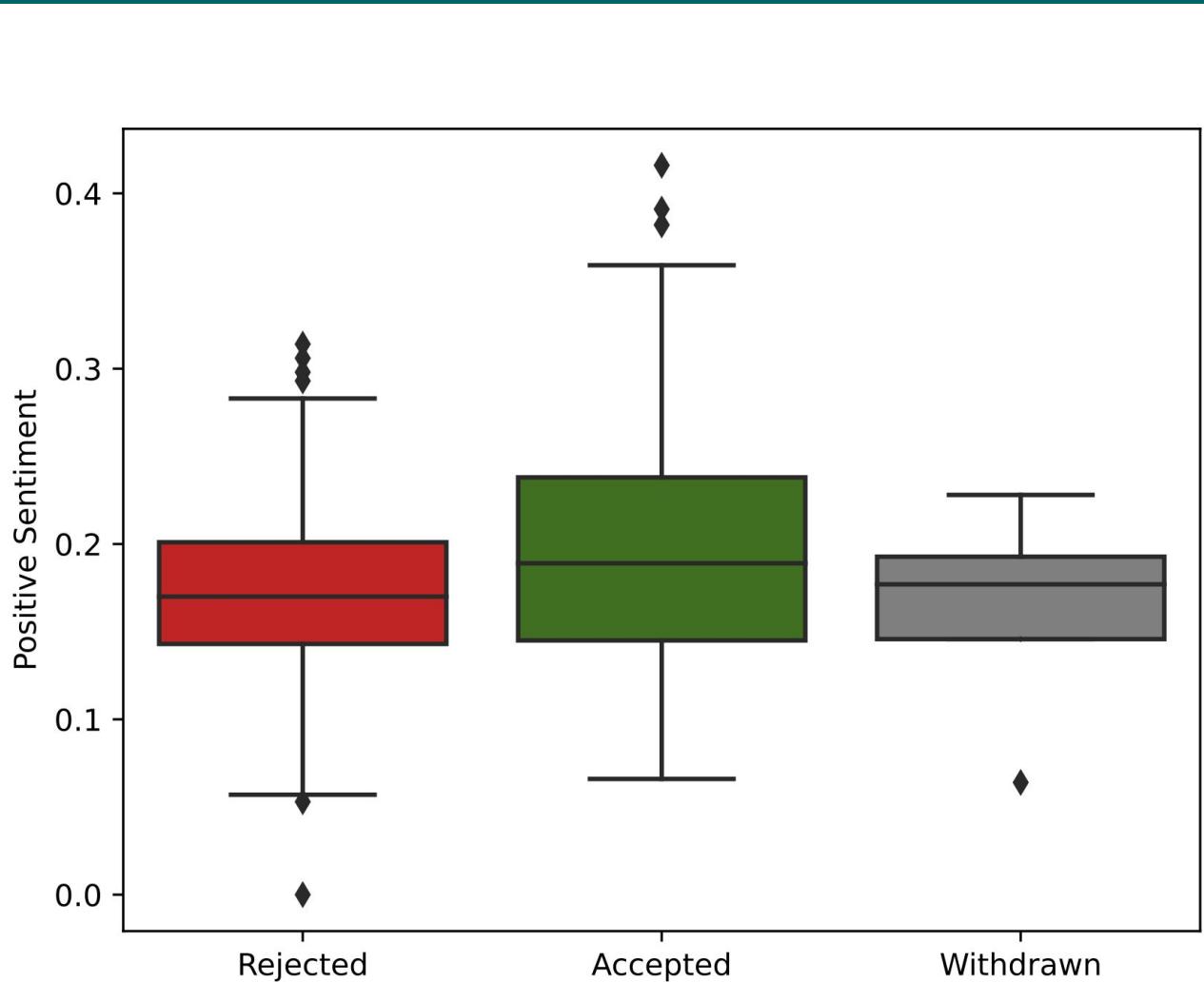


Stat. significant difference

Large effect size



# Positive sentiment in metareviews



Stat. significant difference

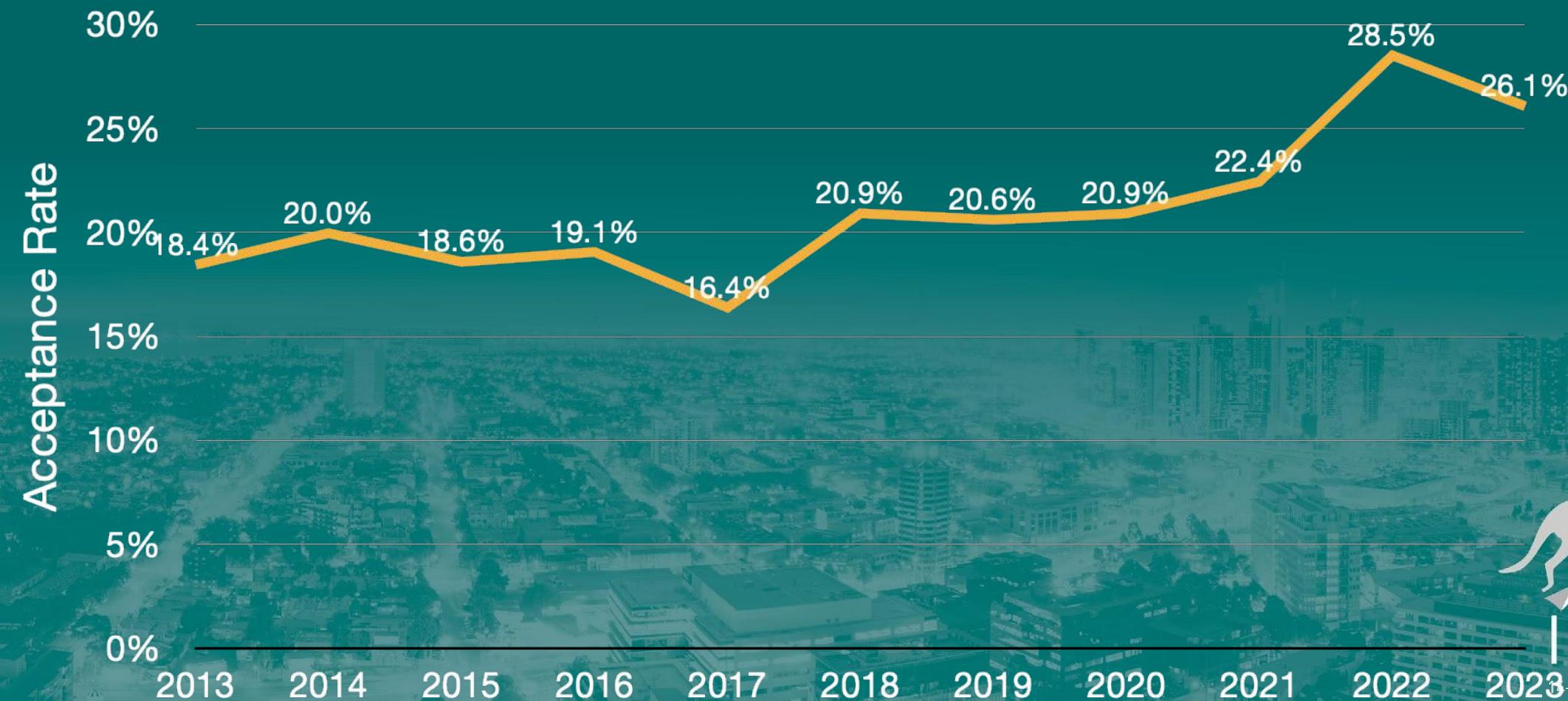
Small effect size



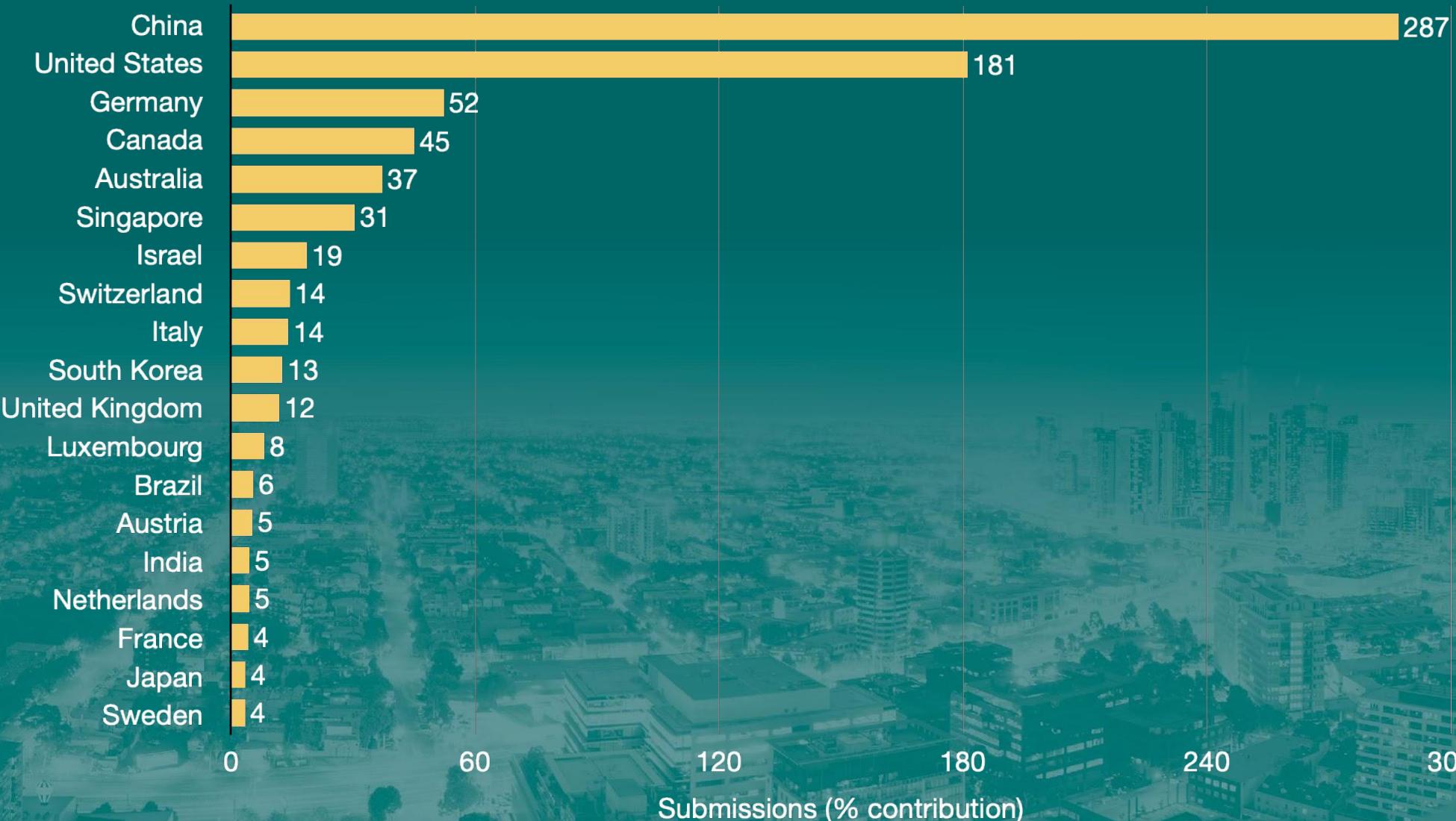
# Submitted/Accepted over the years



# Acceptance rates over the years



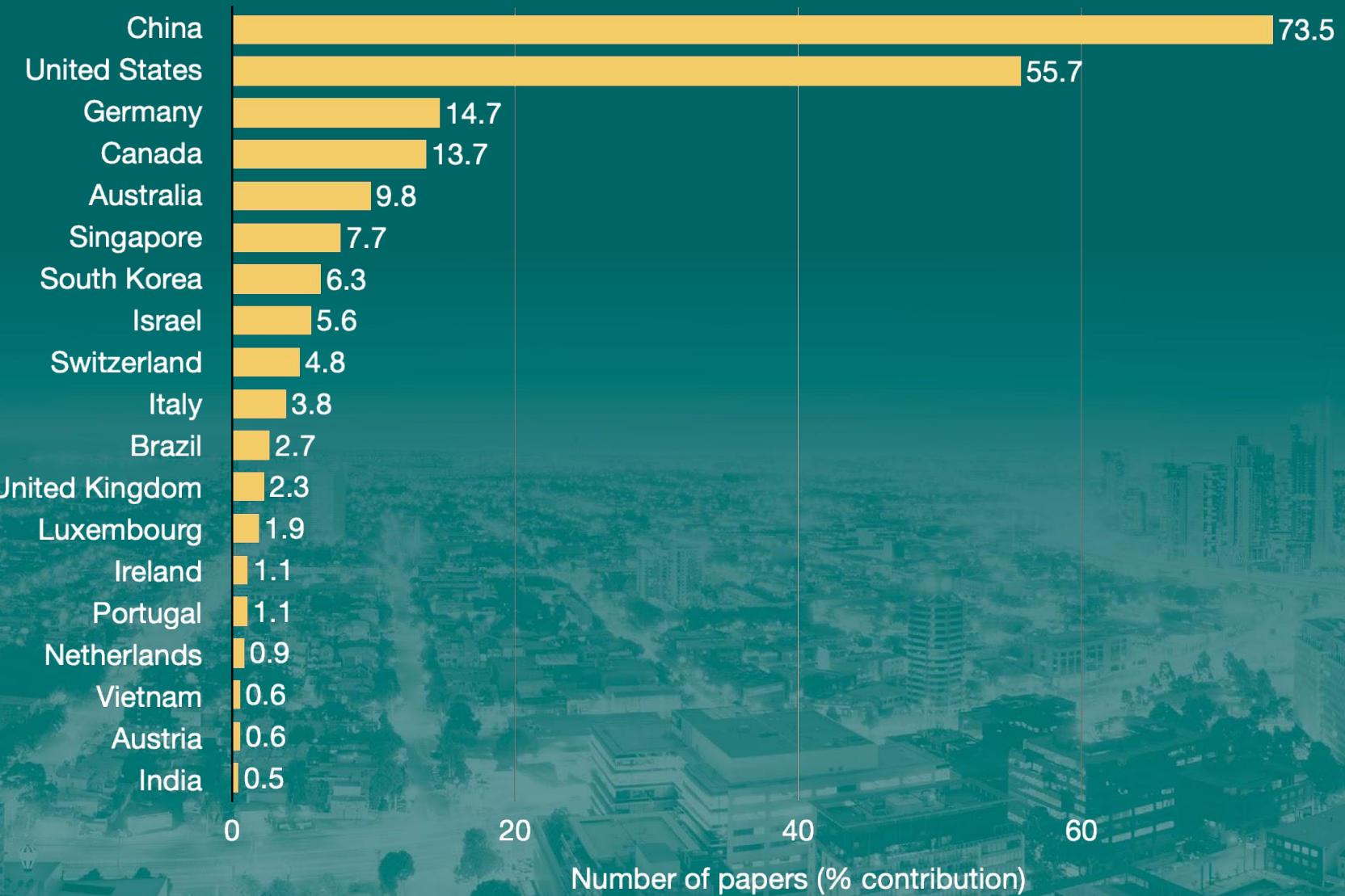
# Submitted by country



2,657 authors  
45 countries



# Accepted by country



836 authors  
22 countries



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# Submission survey (those who replied)

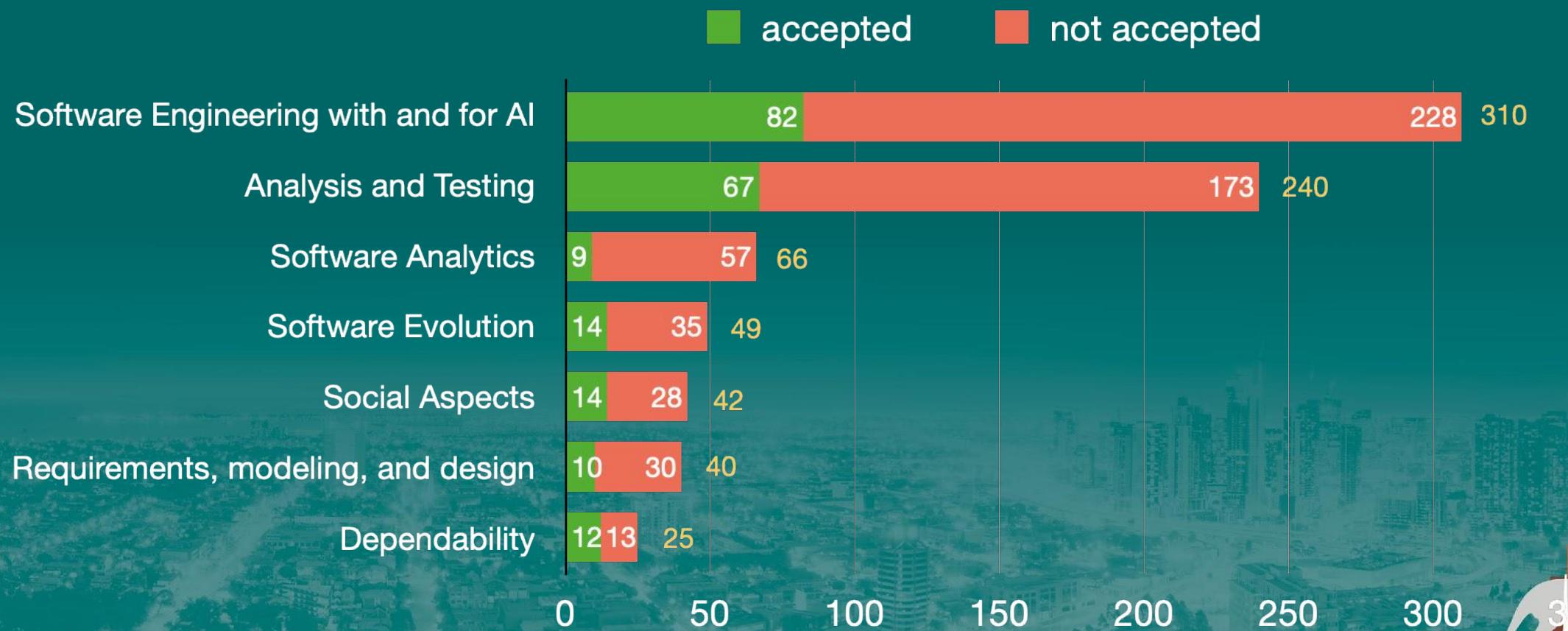
With women as authors: 25%

With industrial authors: 22% (topics in line with the overall submissions)

With a previous ICSE participation: 26%

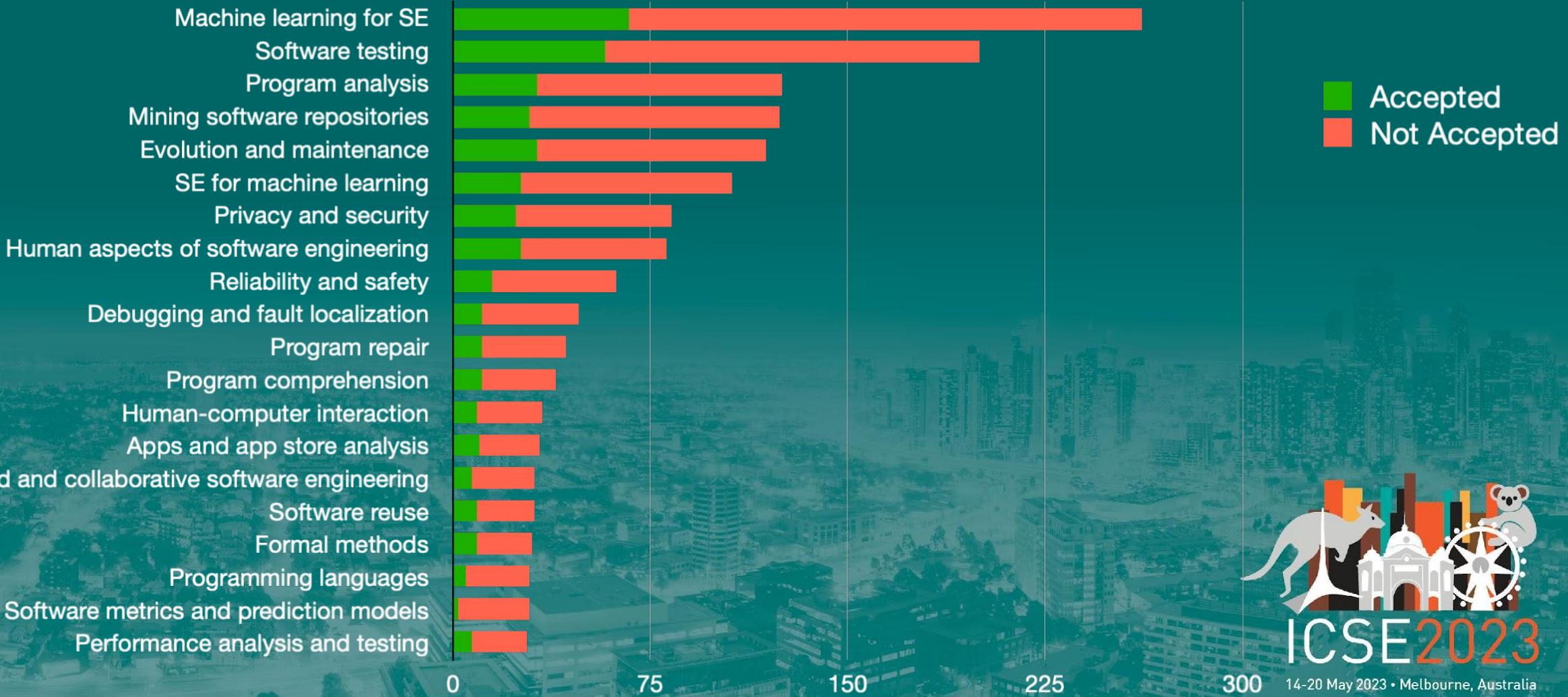
Only 1/32 paper accepted from those who never attended ICSE

# Submitted/accepted by declared primary area

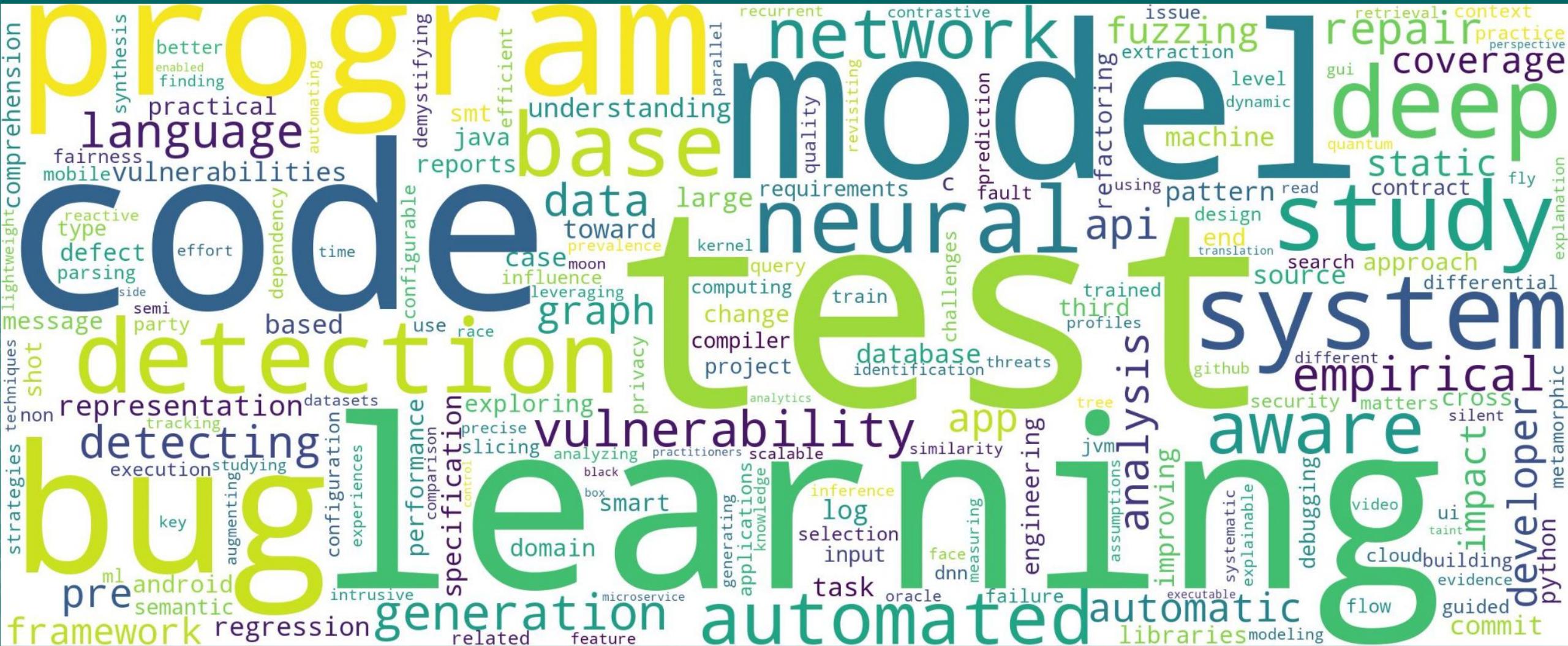


Highest acceptance rate for Dependability (48%), lowest for Sw. Analytics (14%).  
Other areas in line with the overall.

# Submitted/accepted by topic (top 20)



# Accepted papers at a glance



# Other tracks contributing in the program

Not less interesting than the technical track papers!



# Other Tracks PC Members (402 people in total)

Abdul Ali Bangash, Abram Hindle, Adam Welc, Adriana Sejfia, Afnan Al-Subaihin, Ajay Jain, Ajay Jha, Ajitha Rajan, Alejandra Cechich, Alessandra Bagnato, Alexander Nolte, Alexander Serebrenik, Ali Ouni, Ali Shokri, Alicia M. Grubb, Alpana Dubey, Amiangshu Bosu, Amjad Tahir, Ana B. Sánchez, Andrea De Lucia, Andrea Delgado, Andrea Zisman, Andreas Böllin, Andreea Vescan, Andrew Begel, Angelo Di Iorio, Ann Barcomb, Anna Liu, Anna Rita Fasolino, Anna-Katharina Wickert, Anne Hess, Anne Koziolek, Anthony I. (Tony) Wasserman, Anthony Peruma, Antonio Vallecillo, Antonio Vetrò, Antony Tang, Antti Knutas, Arnaud Gotlieb, Arto Hellas, Atsuo Hazeyama, Aurora Vizcaíno, Austen Rainer, Ayşe Başar, Azadeh Ghari Neiat, Barbora Buhnova, Bastian Tenbergen, Ben Hermann, Bianca Trinkenreich, Bihuan Chen, Bin Lin, Birgit Penzenstadler, Candy Pang, Carina Alves, Carla Bezerra, Carlo A. Furia, Casper Lassenius, Catia Trubiani, Chaiyong Rakshitwetsagul, Chao Ni, Chengcheng Wan, Chetan Arora, Chetan Bansal, Christa Schwanninger, Christelle Urtado, Christian Bird, Christian D. Newman, Christiane Gresse von Wangenheim, Christine Julien, Christoph Matthies, Christoph Treude, Christopher Bull, Claudia Szabo, Claudine Allen, Claus Brabrand, Colin Werner, Condori-Fernandez Nelly, Corrado A. Visaggio, Cristina Seceleanu, Csaba Nagy, Cuiyun Gao, Dan Hao, Daniel Port, Daniel Russo, Dario Di Nucci, Darko Marinov, David Binkley, David C. Shepherd, David Klappholz, David Redmiles, Davide Di Ruscio, Davide Falessi, Davide Fucci, Davide Rossi, Dayi Lin, Diego Costa, Diego Fontdevila, Dirk-Jan Swagerman, Domenico Bianculli, Dong Wang, Dusica Marijan, Edna Dias Canedo, Eduard C. Groen, Eduardo Santana de Almeida, Elena Navarro, Elisa Yumi Nakagawa, Emad Shihab, Emilia Mendes, Emily Navarro, Emitzá Guzmán, Eoin Woods, Eric Knauss, Ernest Teniente, Fabio Calefato, Fabio Petrillo, Faheem Ullah, Flavio Oquendo, Francesca Arcelli Fontana, Gabriele Bavota, Gemma Catolino, Georgia Kapitsaki, Gian Luca Scoccia, Gias Uddin, Giulio Antoniol, Giuseppe Destefanis, Gouri Ginde Deshpande, Grace Lewis, Gregory Gay, Grischa Liebel, Guangtai Liang, Guido Salvaneschi, Hailong Sun, Haipeng Cai, Hamid Bagheri, Hao He, Helena Holmström Olsson, Helene Waeselynck, Henry Muccini, Hideaki Hata, Hironori Washizaki, Hoa Khanh Dam, Holger Giese, Hongyu Zhang, Huaming Chen, Hui Liu, Huilian Sophie Qiu, Ian Gorton, Igor Cavrak, Igor Steinmacher, Igor Wiese, Ilias Gerostathopoulos, Ina Schieferdecker, Ingo Weber, Inmaculada Medina-Bulo, Ipek Ozkaya, Irum Inayat, Istvan David, Ita Richardson, James Clause, Jan Bosch, Janet Burge, Jean-Guy Schneider, Jeff Carver, Jennifer McIntosh, Jennifer Perez, Jens Heidrich, Jens Krinke, Jiali Chang, Jianjun Zhao, Jiayuan Zhou, Jie M. Zhang, Jil Klünder, Jim Herbsleb, Joanne M. Atlee, Jocelyn Simmonds, John Micco, John Noll, John-Paul Ore, Jonathan Bell, Juergen Grossmann, Juergen Mottok, Julian Alves Pereira, Jun Sun, Junjie Chen, Junjie Wang, Jutta Eckstein, K. P. Wang, Kai Gao, Kaifeng Huang, Kathia Oliveira, Katsuro Inoue, Kelly Blincoe, Kelly Lyons, Ken Power, Kevin Buffardi, Kiev Gama, Kim Lauenroth, Kristen Walcott, Kui Liu, Lamprecht Anna-Lena, Laura Tubino, Leonardo Da Silva Sousa, Letizia Jaccheri, Lin Shi, Linghui Luo, Lingxiao Jiang, Lodewijk Bergmans, Lodovica Marchesi, Lorin Hochstein, Lu Xiao, Lutz Prechelt, Luís Cruz, Mairieli Wessel, Maleknaz Nayebi, Man Zhang, Manal Alhammad, Mansoorah Zahedi, Marcio Barros, Marco Kuhrmann, Maria Kechagia, Maria Paasivaara, Maria Spichkova, Maria Teresa Baldassarre, Maria-Isabel Sanchez-Segura, Marian Daun, Mario Linares-Vásquez, Mark Pault, Mark Staples, Marques Samary Maíra , Marsha Chechik, Martin Pinzger, Mary Sánchez-Gordón, Matthias Galster, Mattia Fazzini, Maya Daneva, Meghan Allen, Mei-Hwa Chen, Meng Yan, Mersedeh Sadeghi, Michael Atighetchi, Michael Hilton, Michael Wybrow, Michal Young, Mikaela Cashman, Minghui Zhou, Mohamed Wiem Mkaouer, Monica Landoni, Morgan Ericsson, Moritz Beller, Muneera Bano, Myra Cohen, Nadia Alshahwan, Nadine von Frankenberg, Nafise Eskandani, Naouel Moha, Neil Ernst, Nenad Medvidović, Nicolas Paez, Nicole Levy, Nicole Novielli, Nikolaos Tsantalis, Norihiro Yoshida, Nour Ali, Olga Baysal, Omar Haggag, Orit Hazan, Oscar Chaparro, Paolo Tell, Pasqualina Potena, Patricia Brockmann, Patrizio Pelliccione, Paul Anderson, Paul Baker, Paul Gazzillo, Pei Wang, Peter M. Kruse, Petri Ihantola, Philippe Kruchten, Phuong T. Nguyen, Pinjia He, Prajish Prasad, Preetha Chatterjee, Qinghua Lu, Qingwei Lin, Rabe Abdalkareem, Rachel Harrison, Rachel Tzoref-Brill, Rafael Prikladnicki, Raffaela Mirandola, Raghu Reddy, Rahul Purandare, Rajapakse Damith Chatura, Ralf Lämmel, Rami Bahsoon, Rana Alkadhi, Rashina Hoda, Raula Gaikovina Kula, Rebekka Wohlrab, Reed Milewicz, Remco de Boer, Rifat Ara Shams, Ritu Kapur, Robert Chatley, Robert Feldt, Roberto Verdeccchia, Rodrigo Santos, Ronnie de Souza Santos, Ruzanna Chitchyan, Saba Alimadadi, Sabrina Marczał, Sallam Abualhaija, Salome Maro, Sarah Nadi, Sebastian Uchitel, Sedelmaier Yvonne, Seohyun Kim, Seonah Lee, Sepideh Ghanavati, Serban Camelia, Serge Demeyer, Sergio Segura, Shamsa Abid, Shaukat Ali, Shi Han, Shing-Chi Cheung, Shuai Wang, Sigrid Eldh, Silvio Peroni, Sira Vegas, Smita Ghaisas, Song Wang, Sonia Haiduc, Sonja Hyrynsalmi, Sridhar Chimalakonda, Stefan Winter, Stefano Zucchioli, Stephan Krusche, Steve Counsell, Sumon Biswas, Sungwon Kang, Sylwia Kopczyńska, Tanjila Kanij, Tao Yue, Tao Zhang, Tapajit Dey, Thais Batista, Thelma E. Colanzi Lopez, Thomas Stifter, Théo Zimmermann, Tiago Amorim, Tien N. Nguyen, Tim Menzies, Tim Puhlfürß, Timofey Bryksin, Ting Su, Tingting Bi, Tiziana Margaria, Tomi Männistö, Tse-Hsun (Peter) Chen, Tuba Yavuz, Upsorn Praphamontripong, Vahid Garousi, Valerio Cosentino, Valerio Terragni, Vinay Kulkarni, Vincenzo Riccio, Vittorio Cortellessa, Waqar Hussain, Werneck Vera, Xavier Devroey, Xi Zheng, Xiang Gao, Xiao Liu, Xiao Qu, Xiaobing Sun, Xiaofei Xie, Xiaofeng Wang, Xiaoning Du, Xiaoyin Wang, Xiaoyuan Xie, Xiapu Luo, Xin Peng, Xin Tan, Xin Xia, Xing Hu, Xiwei (Sherry) Xu, Yan Cai, Yang Feng, Yepang Liu, Yijun Yu, Ying Wang, Yu Huang, Yuan Tian, Yuanfang Cai, Yuxia Zhang, Yuxin Tang, Zainab Masood, Zhen Dong, Zhiqiang Zuo, Zhongxin Liu, Zoe Kotti, Zoltan Porkolab



# Accepted/Submitted from other tracks

Journal first: 90/90

Software Engineering in Practice (SEIP): 41 full+5 ind. challenge / 146

Demonstrations: 38/80

Software Education and Training (SEET): 32/80

New Ideas and Emerging Results (NIER): 25/119

Software Engineering in Society (SEIS): 20/59

Showcase: 11 invited papers from ICSA, MODELS, RE, FM



# The program



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# Program components

66 Technical Sessions

3 Keynotes

Award sessions (Thu-Fri before the keynotes, Thu last session)

3 Future of Software Engineering Sessions

2 Industry Forum Sessions

7 Technical Briefings

ACM Student Research Competition

SCORE Contest

ROSE Festival

Showcase panel (today 15:45)

Town hall meeting (today 17:30)

Various community meetings



# Technical Sessions

Featuring long (15 min.) or short (7.5 min.) slots  
(mostly) sequential threads about:

- Analysis
- Debugging and Repair
- Evolution and Quality
- Human Aspects
- Requirements and Design
- Software Analytics
- Software Engineering with and for AI
- Software Security
- Testing

The app program may have a few inconsistencies  
In doubt the Web site is the ground truth



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# Keynotes



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# Future Software for Life in Trusted Futures



Prof. Sarah Pink  
Monash University, Australia

# Software Engineering as the Linchpin of Responsible AI



Dr Liming Zhu  
CSIRO Data61, Australia

# The Road Toward Dependable AI Based Systems



Prof. Paolo Tonella  
Università della Svizzera  
Italiana, Switzerland

# Award Sessions



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# Research Track



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# Research Track

Lori Pollock  
Massimiliano Di Penta



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# Technical Track Distinguished Reviewers

Based on nominations from area chairs and colleagues

23 reviewers recognized for the timeliness, depth and constructiveness of the provided feedback, and active participation in the discussion

# Distinguished Reviewers

Amjad Tahir  
Andreas Vogelsang  
Andrzej Wasowski  
Aurdris Mockus  
Bogdan Vasilescu  
Brittany Johnson  
Caitlin Sadowski  
Christine Julien  
Diomidis Spinellis  
Igor Steinmacher  
Jennifer Horkoff  
Julia Lawall

Kevin Moran  
Kla Tantithamthavorn  
Klaas-Jan Stol  
Leandro Minku  
Leonardo Mariani  
Marcel Boehme  
Philipp Leitner  
Rachel Tzoref-Brill  
Sebastian Baltes  
Sebastian Proksch  
Xavier Franch



# SIGSOFT Distinguished Paper Awards

<10% of the papers accepted in the technical tracks

Selection based on nominations, scores, no major weaknesses

10 papers selected



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# ACM SIGSOFT

## Distinguished Paper Award

### ICSE 2023



**SIGSOFT**  
SPECIAL INTEREST GROUP ON SOFTWARE ENGINEERING

IEEE/ACM International Conference on Software Engineering,  
May 17-19 2023, Melbourne, Australia

*Presented to*

**Bianca Trinkenreich, Klaas-Jan Stol, Anita Sarma, Daniel M German,  
Marco Gerosa, and Igor Steinmacher**

*For*

**Do I Belong? Modeling Sense of Virtual Community  
Among Linux Kernel Contributors**

Lori Pollock and Massimiliano Di Penta  
ICSE 2023 Program Co-Chairs

John Grundy  
ICSE 2023 General Chair



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*Presented to*

**Lyuye Zhang, Chengwei Liu, Zhengzi Xu, Sen Chen, Lingling Fan,  
Lida Zhao, Jiahui Wu, and Yang Liu**

*For*

**Compatible Remediation on Vulnerabilities from Third-Party  
Libraries for Java Projects**

Lori Pollock and Massimiliano Di Penta  
ICSE 2023 Program Co-Chairs

John Grundy  
ICSE 2023 General Chair



# ACM SIGSOFT

## Distinguished Paper Award

### ICSE 2023



IEEE/ACM International Conference on Software Engineering,  
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*Presented to*

**Jenny T. Liang, Maryam Arab, Minhyuk Ko, Amy J. Ko,  
and Thomas D. LaToza**

*For*

**A Qualitative Study on the Implementation Design Decisions  
of Developers**

Lori Pollock and Massimiliano Di Penta  
ICSE 2023 Program Co-Chairs

John Grundy  
ICSE 2023 General Chair



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SIGSOFT  
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May 17-19 2023, Melbourne, Australia

*Presented to*

**Sterre van Breukelen, Ann Barcomb, Sebastian Baltes,  
and Alexander Serebrenik**

*For*

**“STILL AROUND”: Experiences and Survival Strategies of Veteran  
Women Software Developers**

Lori Pollock and Massimiliano Di Penta  
ICSE 2023 Program Co-Chairs

John Grundy  
ICSE 2023 General Chair



# ACM SIGSOFT

## Distinguished Paper Award

### ICSE 2023



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May 17-19 2023, Melbourne, Australia

*Presented to*

**Teng Wang, Zhouyang Jia, Shanshan Li, Si Zheng, Yue Yu, Erci Xu,  
Shaoliang Peng, and Xiangke Liao**

*For*

**Understanding and Detecting On-the-Fly Configuration Bugs**

Lori Pollock and Massimiliano Di Penta  
ICSE 2023 Program Co-Chairs

John Grundy  
ICSE 2023 General Chair



# ACM SIGSOFT

## Distinguished Paper Award

### ICSE 2023



IEEE/ACM International Conference on Software Engineering,  
May 17-19 2023, Melbourne, Australia

*Presented to*

**Jinsheng Ba and Manuel Rigger**

*For*

**Testing Database Engines via Query Plan Guidance**

Lori Pollock and Massimiliano Di Penta  
ICSE 2023 Program Co-Chairs

John Grundy  
ICSE 2023 General Chair



# ACM SIGSOFT

## Distinguished Paper Award

### ICSE 2023



IEEE/ACM International Conference on Software Engineering,  
May 17-19 2023, Melbourne, Australia

*Presented to*

**Will Leeson, Matthew B Dwyer, and Antonio Filieri**

*For*

**Sibyl: Improving Software Engineering Tools with SMT Selection**

Lori Pollock and Massimiliano Di Penta  
ICSE 2023 Program Co-Chairs

John Grundy  
ICSE 2023 General Chair



# ACM SIGSOFT

## Distinguished Paper Award

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May 17-19 2023, Melbourne, Australia

*Presented to*

**Xinyuan Miao, Ziyi Lin, Shaojun Wang, Lei Yu, Sanhong Li, Zihan  
Wang, Pengbo Nie, Yuting Chen, Beijun Shen, and He Jiang**

*For*

**Lejacon: A Lightweight and Efficient Approach  
to Java Confidential Computing on SGX**

Lori Pollock and Massimiliano Di Penta  
ICSE 2023 Program Co-Chairs

John Grundy  
ICSE 2023 General Chair



# ACM SIGSOFT

## Distinguished Paper Award

### ICSE 2023



SIGSOFT  
SPECIAL INTEREST GROUP ON SOFTWARE ENGINEERING

IEEE/ACM International Conference on Software Engineering,  
May 17-19 2023, Melbourne, Australia

*Presented to*

**Sidong Feng, Mulong Xie, and Chunyang Chen**

*For*

**Efficiency Matters: Speeding Up Automated Testing  
with GUI Rendering Inference**

Lori Pollock and Massimiliano Di Penta  
ICSE 2023 Program Co-Chairs

John Grundy  
ICSE 2023 General Chair



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May 17-19 2023, Melbourne, Australia

*Presented to*

**Nikhil Parasaram, Earl Barr, and Sergey Mechtaev**

*For*

**Rete: Learning Namespace Representation for Program Repair**

Lori Pollock and Massimiliano Di Penta  
ICSE 2023 Program Co-Chairs

John Grundy  
ICSE 2023 General Chair

# Software Engineering in Society (SEIS)

Rashina Hoda  
Alexander Serebrenik



14-20 May 2023 • Melbourne, Australia



# BEST PAPER AWARD



This certificate is proudly presented to

**Tanjila Kanij, Misita Anwar,  
Gillian Oliver, Md Khalid Hossain**

for the paper "Developing Software for Diverse Socio-Economic End Users: Lessons Learned from A Case Study of Fisherfolk Communities in Bangladesh"

**Software Engineering in Society (SEIS)**  
17 -19 May 2023 - Melbourne, Australia

*Rashina Hoda*

Rashina Hoda  
SEIS 2023 General Chair



*Alexander Serebrenik*

Alexander Serebrenik  
SEIS 2023 General Chair



# Distinguished Reviewers - SEIS Track

Alexander Nolte

Igor Wiese

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# Software Engineering Education and Training (SEET)

Sonia Haiduc  
Jean-Guy Schneider



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## Best Paper Award

# Software Engineering Education and Training (SEET) 2023

IEEE/ACM International Conference on Software Engineering,

May 17-19 2023, Melbourne, Australia

*Presented to*

**Sara Nurollahian, Anna Rafferty, and Eliane Wiese**

*For*

**Understanding Students' Knowledge of Programming Patterns  
Through Code Editing and Revising Tasks**

Sonia Haiduc  
SEET 2023 Co-Chair

Jean-Guy Schneider  
SEET 2023 Co-Chair

# Software Engineering in Practice (SEIP)

Anna Liu  
Henry Muccini



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## BEST INDUSTRY PAPER AWARD

*for the SEIP track at ICSE 2023  
is presented to*

# Rijnard van Tonder

*for the paper "You Don't Know Search: Helping Users Find Code by  
Automatically Evaluating Alternative Queries"*

Anna Liu  
ICSE SEIP Program Co-Chair

  
Henry Muccini  
ICSE SEIP Program Co-Chair  
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