

13TH ACM INTERNATIONAL CONFERENCE ON DISTRIBUTED
AND EVENT-BASED SYSTEMS

DEBS 2019

Welcome to Darmstadt!

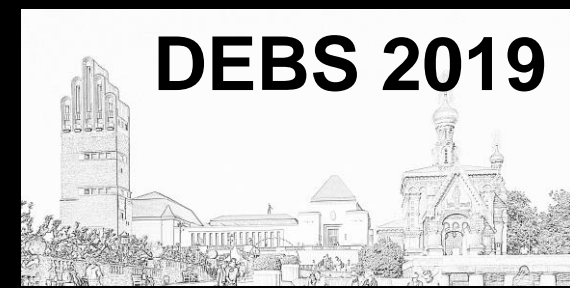


24th – 29th June, 2019



Darmstadtium, Schloßgraben 1, 64283 Darmstadt

What's new



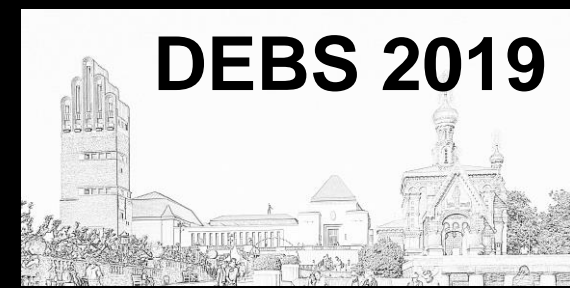
- 1st DEBS Summer School
 - Organized by Vera Göbel and Sukanya Bowmik
 - 4 keynotes
 - 60 participants
- Influential Papers
 - Organized by Roy Friedman
 - Selection of Early Influential Papers
 - 10 years time award

DEBS 2019

DEBS 2019 Full Program

	Mon, 24 June	Tue, 25 June		Wed, 26 June	Thu, 27 June	Fri, 28 June
8:30	Registration	Registration		Registration	Registration	Registration
9:00	DEBS Summer School – Carsten Binnig (TU Darmstadt)	DEBS Tutorial A: Correctness and Consistency of Event-based Systems	DEBS Tutorial B: Modern Approach to Situation Awareness: The Ultimate Challenge for Event	Welcome DEBS	Keynote: Tyler Akidau (Google)	Influential DEBS Papers
9:15				Keynote: Gustavo Alonso (ETH Zurich)		
10:00				Coffee Break	Coffee Break	
10:15	Please check the program in your bag!					
10:30						
10:45						

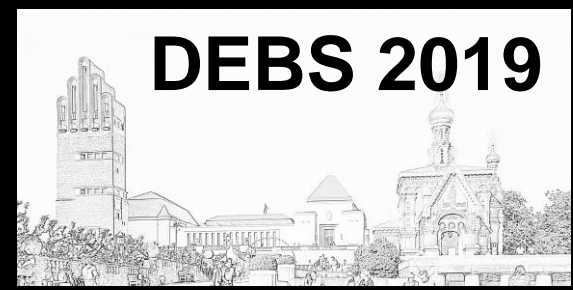
DEBS 2019 Participation



- Monday, June 24
 - Summer school ~60 participants
 - Doctoral Symposium ~ 50 participant
- Tuesday, June 25
 - 4 Tutorials : ~75 people
- Wednesday- Friday, June 21-23: ~85 participants
- Overall: ~100 Conference participants

Keynotes

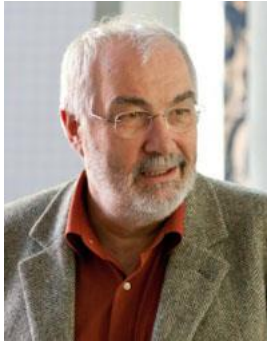
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Gustavo Alonso

ETH Zurich,
Switzerland

How Hardware Evolution is Driving Software Systems



Wolfgang Reisig

Humboldt-Universität
zu Berlin, Germany

Conceptual Modeling of Event-Based Systems



Tyler Akidau

Google AI Research,
USA

Open Problems in Stream Processing: A Call To Action



Karthik Ramasamy

Streamlio Inc., USA

Unifying Messaging, Queuing, Streaming &
Light Weight Compute for Online Event
Processing



Donald Kossmann

Microsoft Research,
Redmond, USA

The Global AI Supercomputer

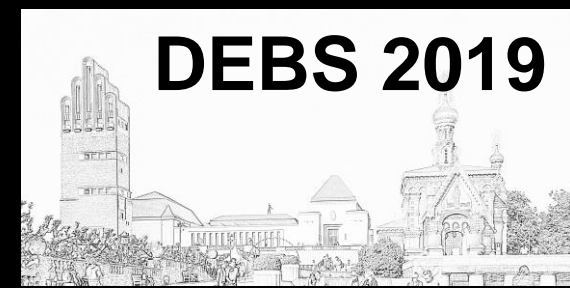


Olivier Tardieu

IBM Research, USA

Serverless Composition of Serverless
Functions

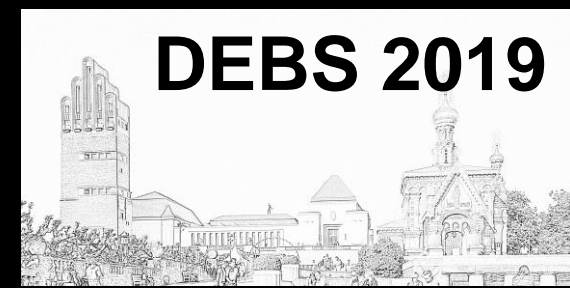
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- Reception today at 6pm
- Tomorrow at 5.15pm
 - 5.15pm Guided Tour Mathildenhöhe
 - One Tour with museum at 4.45pm
- Banquet at 7.00pm
 - Restaurant Sitte

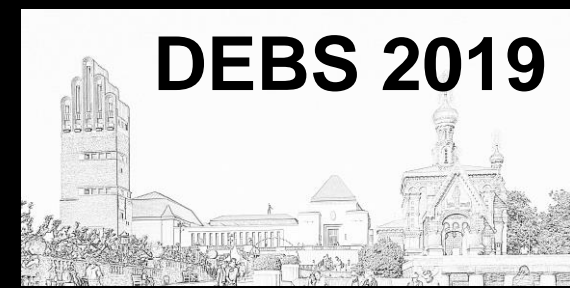


DEBS Impact: H5-Index



1. IEEE Transactions on Parallel and Distributed Systems	79	129
2. Network and Distributed System Security Symposium (NDSS)	60	103
3. IEEE International Symposium on Parallel & Distributed Processing	46	59
4. Journal of Parallel and Distributed Computing	39	54
5. International Conference on Distributed Computing Systems, ICDCS	35	48
6. IEEE International Symposium on Cluster Computing and the Grid	33	44
7. ACM International Symposium on High Performance Distributed Computing	28	46
8. Journal of Grid Computing	27	51
9. ACM Symposium on Principles of Distributed Computing (PODC)	27	37
10. Distributed Event-Based Systems	24	37
11. IEEE International Conference on Distributed Computing in Sensor Systems	22	30
12. International Symposium on Distributed Computing (DISC)	21	24
13. International IEEE Enterprise Distributed Object Computing Conference, EDOC	20	31
14. Euromicro International Conference on Parallel, Distributed and Network-Based Processing	20	26
15. International Conference of Distributed Computing and Networking	18	27
16. Distributed Computing	18	22
17. International Journal of Grid and Utility Computing	16	19
18. International Conference on Distributed Computing Systems Workshops, ICDCSW	15	21
19. IEEE International Symposium on Object Oriented Real-Time Distributed Computing	15	20
20. Symposium on Reliable Distributed Systems (SRDS)	15	20

Tracks & Topics



- Tutorial Track
 - 4 tutorials
- Research Track
 - 13 research papers
 - 3 papers were shepherded
- Industry Track
 - 2 full, 1 short paper (of 9 subs)
 - 2 papers were shepherded
- Poster and Demo Track
 - 10 posters & 7 demos
- The Grand Challenge Track
 - 2 papers

Session 1: Scheduling and Elasticity

Session 2: Pub/Sub and Feed Following Systems

Session 3: Monitoring Applications

(incl. 2 industry papers)

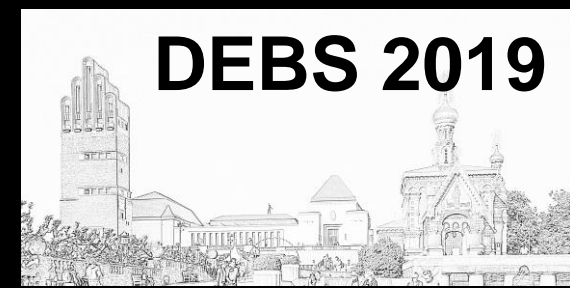
Session 4: Algorithms and Formal Specification

Session 5: Platforms and Middleware

Session 6: Distributed Event Processing

(incl. 1 industry paper)

Thanks to Research PC

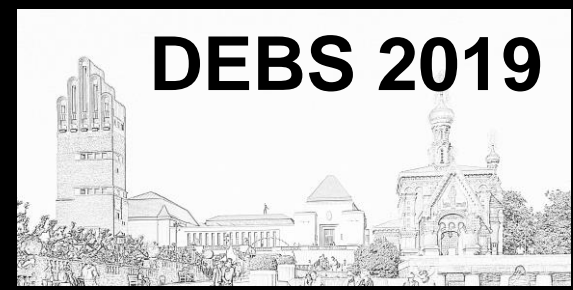


PC Chairs: Badrish Chandramouli (Microsoft Research) and Leonardo Querzoni (Sapienza University of Rome)

- Emmanuelle Anceaume, IRISA, France
- Alexander Artikis, NCSR Demokritos, Greece
- Jean Bacon, University of Cambridge, UK
- Andrey Brito, Universidade Federal de Campina Grande, Brazil
- Paris Carbone, KTH, Sweden
- Valeria Cardellini, University of Rome Tor Vergata, Italy
- Domenico Cotroneo, University of Naples Federico II, Italy
- Khuzaima Daudjee, University of Waterloo, Canada
- Schahram Dustdar, TU Wien, Austria
- Opher Etzion, Yezreel Valley College, Israel
- David Eysers, University of Otago, New Zealand
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- Vana Kalogeraki, Athens University of Economics and Business, Greece
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- Matteo Migliavacca, University of Kent, UK
- Gero Muehl, University of Rostock, Germany
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- Valerio Schiavoni, University of Neuchâtel, Switzerland
- Douglas Schmidt, Vanderbilt University, USA
- Kyumars Sheykh Esmaili, TomTom, Belgium
- Adnan Tariq, National Univ of Computer & Emerging Sciences, Pakistan
- Nalini Venkatasubramanian, UC Irvine, USA
- Matthias Weidlich, Humboldt Universität, Germany
- Eiko Yoneki, University of Cambridge, UK
- Kaiwen Zhang, University of Québec, Canada
- Holger Ziekow, HS Furtwangen, Germany

Thanks to Industry PC

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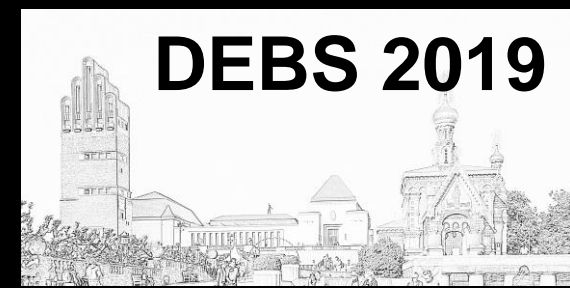
Industry Track Chair

- Guillaume Baudart, IBM Research, USA

PC Members

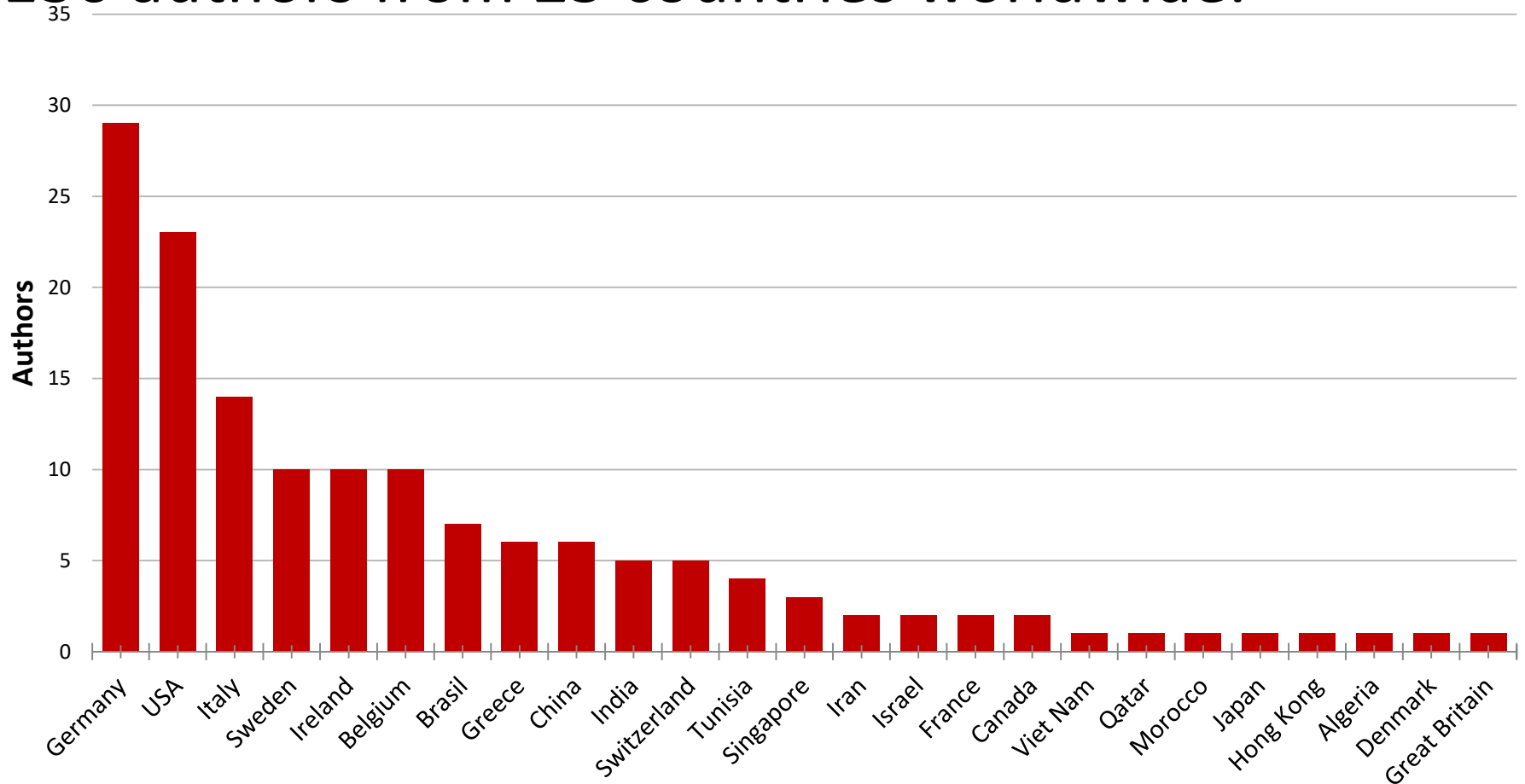
- Scott Schneider, IBM Research, USA
- Julius Rückert, ABB Corporate Research, Germany
- Romain Rouvoy, Université de Lille, France
- Angela Bonifati, Université de Lyon, France
- Kaiwen Zhang, University of Québec, Canada
- Wolfgang De Meuter, Vrije Universiteit Brussel, Belgium

Research Submissions

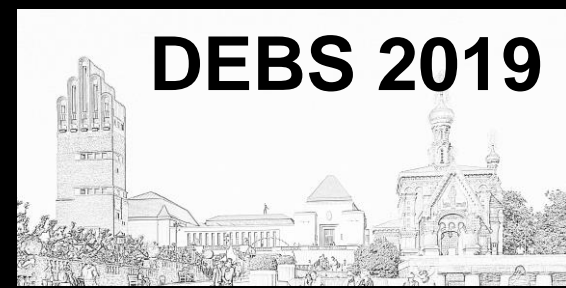


Overall 47 submissions.

136 authors from 25 countries worldwide.



Review process and acceptance rates



Overall 47 research submissions from 25 countries
9 industry track submissions

Reviews per paper

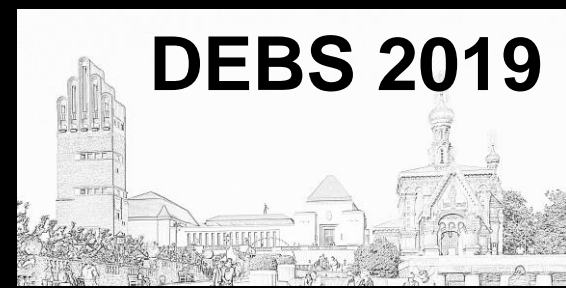
- research track: 4.57 (avg)
- industry track: 3

Acceptance rate

- research track: 27.6%
(slightly above last year's 24% rate)
- industry track: 33.3%

Proceedings

DEBS 2019



Proceedings of the 13th ACM International Conference on Distributed and Event-based Systems

Publication of:

• Conference

[DEBS '19](#) The 13th ACM International Conference on Distributed and Event-based Systems

Darmstadt, Germany — June 24 - 28, 2019

[ACM](#) New York, NY, USA ©2019



Association for
Computing Machinery

Advancing Computing as a Science & Profession

June 24–28, 2019
Darmstadt, Germany



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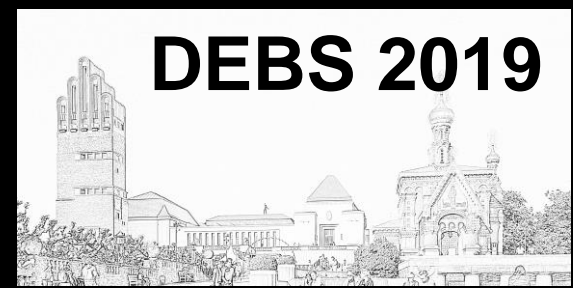
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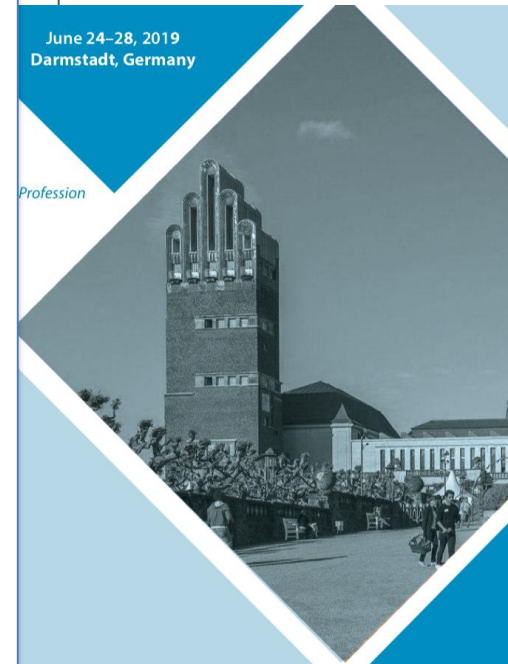
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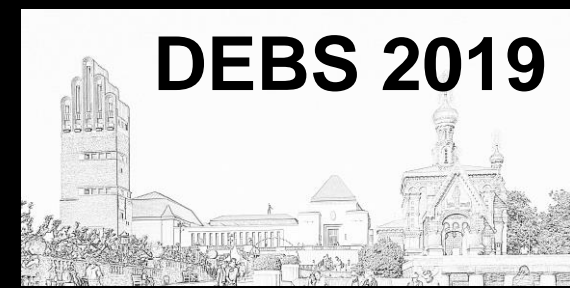
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Profession



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Acknowledgements



Thanks a lot to

- All authors
- PC-Members and Reviewers
- Participants
- Supporters and Sponsors

Contributing to an interesting program and lively discussions

Hope you enjoy the program