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**THE WEB**  
  
**CONFERENCE**

# The Web Conference 2019

Proceedings of

**The World Wide Web Conference WWW 2019**

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**Ling Liu (Georgia Tech, USA)**

**Ryen W. White (Microsoft Research, USA)**

*Demonstrations Chairs:*

**Amin Mantrach (Criteo AI Lab, USA)**

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**Ricardo Baeza-Yates (NTENT & Northeastern University at SV, USA)**

**Leila Zia (Wikimedia Foundation, USA)**



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# The Web Conference 2019

## Research Chairs' Preface

The research program of this year's edition consists of 12 tracks for refereed research papers (including full papers and short papers), and a demonstrations track. As in previous years, updates were made to ensure that track topics correctly reflect the key research areas of interest to the Web community.

The research tracks attracted submissions from 5042 distinct authors from 53 countries spanning six continents. Submissions were rigorously reviewed by a program committee (PC) comprising 27 track chairs, 69 senior PC members (on three of the tracks), 1112 PC members, and 594 external reviewers. A total of 5280 reviews were provided, with each paper receiving at least three reviews, and many papers receiving four or more reviews.

During the discussion phase, PC members, senior PC members, and track chairs discussed the reviews in detail. Meta-reviews were provided for most submissions, especially for borderline papers and high-scoring rejects, summarizing the reviews and discussion. For consistency across tracks, final decisions on papers were made at the face-to-face PC meeting between track chairs and the PC chairs. We accepted 225 (18%) of the 1247 full papers and 72 (20%) of the 361 short papers submitted to the research tracks. We also accepted a small number of full papers as short papers. New this year, all full and short papers were presented as a poster; some full papers also had an oral presentation.

Additionally, 27 submissions were selected for the demonstrations track after being reviewed by 59 PC members, with each of them reviewing an average of 3.95 papers. The majority of the demos got reviewed by 4 reviewers with a minimum of 3 reviewers per submission.

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# The Web Conference 2019

## Conference Chairs' Welcome

It is our great pleasure to welcome you to *The Web Conference 2019*. The Web Conference is the premier venue focused on understanding the current state and the evolution of the Web through the lens of computer science, computational social science, economics, policy, and many other disciplines. The 2019 edition of the conference is a reflection point as we celebrate the 30th anniversary of the Web.

The technical program of this year's edition of the conference consists of three keynotes (Jeff Dean, Lawrence Lessig and Claire Wardle), one panel to celebrate the 30 years of the Web, 12 tracks for refereed research papers (including full papers and short papers), and a demonstrations track that are published in the main volume of the proceedings. The companion volume of the proceedings includes 23 workshops, most of the 22 tutorials, and the Ph.D. Consortium. We also have several other co-located events and special tracks: W4A, BIG, The Web of Health, The Open Web, Building an Ethical Web, and W3C.

We are thankful to all the people that helped us organizing the conference and that are listed in the next section. Without them, this would have never happened. Special thanks to all our sponsors, as they make the quality difference: Microsoft (Diamond); Amazon, Bloomberg and Google (Gold); Criteo AI Lab, CISCO, NTENT, Spotify, Yahoo Research and Wikimedia Foundation (Silver); Baidu, DiDi, eBay, Facebook, LinkedIn, Megagon Labs, Mix, Mozilla, Netflix Research, Northeastern University, Pinterest, Quora, Visa Research and Walmart Labs (Bronze); as well as Airbnb, Letgo, Moore Foundation and Webcastor.

Finally, this conference would have not been possible if together with Ashish Goel and Ben Steichen we did not start Web4Good, a California based non-profit company that undersigned the event with IW3C2.

So we hope that you enjoy this week as well as San Francisco!

### **Ricardo Baeza-Yates**

*General Co-Chair*

*NTENT & Northeastern University at SV*

*USA*

### **Leila Zia**

*General Co-Chair*

*Wikimedia Foundation*

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