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Tenth Annual International Conference on Learning Representations (ICLR)

ICLR 2022 Fact Sheet

Invited Talks/Keynote Speakers:

- John H. Amuasi (Kwame Nkrumah University of Science and Technology) - *Representation Learning in the Global South: Societal Considerations, Fairness, Safety and Privacy*
- Jenny L. Davis (The Australian National University) - *'Affordances' for Machine Learning*
- Been Kim (Google Brain) - *Beyond interpretability: developing a language to shape our relationship with AI*
- Pushmeet Kohli (DeepMind) - *Leveraging AI for Science*
- Kunle Olukotun (Stanford University) - *Accelerating AI Systems: Let the Data Flow!*
- Doina Precup (McGill University & Mila; DeepMind Montreal) - *From Reinforcement Learning to AI*
- Cordelia Schmid (Inria; Google) - *Do you see what I see? Large-scale learning from multimodal videos*
- H. Sebastian Seung (Princeton University; Samsung Research) - *Petascale connectomics and beyond*

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Highlighted Paper Awards:

- Bootstrapped Meta-Learning by *Sebastian Flennerhag, Yannick Schroecker, Tom Zahavy, Hado van Hasselt, David Silver, Satinder Singh*
- Hyperparameter Tuning with Renyi Differential Privacy by *Nicolas Papernot, Thomas Steinke*
- Comparing Distributions by Measuring Differences that Affect Decision Making by *Shengjia Zhao*, *Abhishek Sinha, Yutong He, Aidan Perreault, Jiaming Song, Stefano Ermon*
- Neural Collapse Under MSE Loss: Proximity to and Dynamics on the Central Path by *X.Y. Han, Vardan Papyan, David L. Donoho*
- Learning Strides in Convolutional Neural Networks by *Rachid Riad*, *Olivier Teboul, David Grangier, Neil Zeghidour*
- Expressiveness and Approximation Properties of Graph Neural Networks by *Floris Geerts*, *Juan L Reutter*
- Analytic-DPM: an Analytic Estimate of the Optimal Reverse Variance in Diffusion Probabilistic Models by *Fan Bao, Chongxuan Li, Jun Zhu, Bo Zhang*

Honorable Mentions:

- Understanding over-squashing and bottlenecks on graphs via curvature by *Jake Topping, Francesco Di Giovanni, Benjamin Paul Chamberlain, Xiaowen Dong, Michael M. Bronstein*
- PiCO: Contrastive Label Disambiguation for Partial Label Learning by *Haobo Wang, Ruixuan Xiao, Yixuan Li, Lei Feng, Gang Niu, Gang Chen, Junbo Zhao*
- Efficiently Modeling Long Sequences with Structured State Spaces by *Albert Gu, Karan Goel, Christopher Re*

Virtual Event, Global Participation:

- Approximately 5,200 participants spanning 81 countries
- Over 2,000 participants viewed an invited talk on Monday
- Over 100 unique viewers of 700 posters; one paper had 926 unique viewers
- 100 volunteers contributed over 2500 hours

Past ICLR Locations and Participants:

- 2021: Virtual (Global) 6,300 participants from 64 countries
- 2020: Virtual (Global) 5,600 participants from 76 countries
- 2019: New Orleans (USA) 2,600 participants from 50 countries
- 2018: Vancouver (Canada) 1,950 participants from 38 countries
- 2017: Toulon (France)
- 2016: San Juan (Puerto Rico)
- 2015: San Diego (USA)
- 2014: Banff (Canada)
- 2013: Scottsdale (USA)

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Research Content:

- 8 invited talks
- 7 Outstanding Paper Award winners; 3 Honorable Mentions
- 3,391 total papers submitted
- 1,095 total papers accepted
- 32.26% acceptance rate
- 55 Orals
- 175 Spotlights
- 9 Oral Sessions
- 1,095 Posters in 12 poster sessions
- 12 socials
- 19 workshops

Program Committee Statistics:

- 5,507 reviewers; 4,072 reviewers in 2021
- 394 area chairs (AC)
- 20 senior area chairs
- Every paper received at least 3 reviews
- Each reviewer assigned at most 3 papers
- Each AC assigned at most 11 papers

How to find highlighted papers:

- Accepted papers are available:
  - Open Review
  - See ICLR 2022 papers on the virtual conference site
  - Each accepted paper has a poster that has a link to a PDF
  - All papers will be public and available on ICLR.cc one month after the close of ICLR 2022
  - New in 2022: ICLR Blog Track, a new way for authors to summarize their research

Out of 804 ranked conferences, the CORE 2021 conference ranking assessment of the ICLR conference positioned ICLR in the top 7% of academic conferences, with ICLR receiving the highest-ranking assessment of an A*. The CORE Conference Ranking provides assessments of major conferences in the computing disciplines.

Learn more about ICLR and follow the community ICLR blog updates.

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Media Contact:
press@iclr.cc