35th Annual NeurIPS Conference Announces Six Outstanding Paper Awards, Test of Time Award, New Dataset and Benchmark Track

Virtual conference features an extensive agenda focusing on the research and science in the field of artificial intelligence and machine learning

San Diego, California, November 30, 2021 — Today the Neural Information Processing Systems (NeurIPS) Conference, an annual conference focused on artificial intelligence (AI) and machine learning (ML), announces six Outstanding Paper Awards, a Test of Time Award and two Best Paper Awards in the new Dataset and Benchmark track. For a second year, NeurIPS will host a virtual event with a global audience. The main conference will be held December 6-10 and conclude with a two-day marathon of workshops on December 13-14, 2021.

NeurIPS's mission is to foster the exchange of research advances in AI and ML, principally by hosting an annual interdisciplinary academic conference with the highest ethical standards for a diverse and inclusive community. Over the course of the seven-day conference, the schedule features 22 competition tracks, 8 invited talks, 15 socials, 10 tutorials, 4 demonstrations, 11 affinity workshops and 60 workshops. New this year is a track fully dedicated to datasets and benchmarks papers, to serve as a venue for exceptional work in creating high-quality datasets, insightful benchmarks, and discussions on how to improve dataset development and data-oriented work more broadly. As in previous years, there will be approximately 40 meetups located around the globe to enable people from local communities to attend, either virtually or physically, and enjoy the conference together.

Out of the 9,122 papers submitted this year, 26 percent or 2,334 were accepted. The authors will present their accepted papers during the many poster sessions and the 55 oral presentations. All accepted papers will have talks available to watch on-demand.

The NeurIPS Program Chairs are pleased to announce this year's six prestigious Outstanding Paper Awards and the Test of Time Award. The authors will present their papers during the main conference, as follows:

- **Outstanding Paper Award:**
    - A Universal Law of Robustness via Isoperimetry
    - Authors: Sébastien Bubeck and Mark Sellke
    - Tuesday, December 7 at 08:20 GMT (12:20 am PST) in the session on Deep Learning Theory and Causality
- **Outstanding Paper Award:**

- ○ [On the Expressivity of Markov Reward](#)
- ○ Authors: David Abel, Will Dabney, Anna Harutyunyan, Mark K. Ho, Michael Littman, Doina Precup and Satinder Singh
- ○ Tuesday, December 7 at 09:20 GMT (1:20 am PST) in the session on Reinforcement Learning
- **Outstanding Paper Award:**
  - ○ [Deep Reinforcement Learning at the Edge of the Statistical Precipice](#)
  - ○ Authors: Rishabh Agarwal, Max Schwarzer, Pablo Samuel Castro, Aaron Courville and Marc G. Bellemare
  - ○ Wednesday, December 8 at 16:20 GMT (8:20 am PST) in the session on Deep Learning
- **Outstanding Paper Award:**
  - ○ [MAUVE: Measuring the Gap Between Neural Text and Human Text using Divergence Frontiers](#)
  - ○ Authors: Krishna Pillutla, Swabha Swayamdipta, Rowan Zellers, John Thickstun, Sean Welleck, Yejin Choi and Zaid Harchaoui
  - ○ Tuesday, December 7 at 8:00 GMT (midnight PST) in the session on Deep Learning
- **Outstanding Paper Award:**
  - ○ [Continuized Accelerations of Deterministic and Stochastic Gradient Descents, and of Gossip Algorithms](#)
  - ○ Authors: Mathieu Even, Raphaël Berthier, Francis Bach, Nicolas Flammarion, Pierre Gaillard, Hadrien Hendrikx, Laurent Massoulié and Adrien Taylor
  - ○ Wednesday, December 8 at 16:00 GMT (8:00 am PST) in the session on Optimization
- **Outstanding Paper Award:**
  - ○ [Moser Flow: Divergence-based Generative Modeling on Manifolds](#)
  - ○ Authors: Noam Rozen, Aditya Grover, Maximilian Nickel and Yaron Lipman
  - ○ Saturday, December 11 at 00:00 GMT (Friday, December 10 at 4:00 pm PST) in the session on Generative Modeling
- **Test of Time Award:**
  - ○ [Online Learning for Latent Dirichlet Allocation](#)
  - ○ Year: NeurIPS 2010
  - ○ Authors: Matthew Hoffman, David Blei and Francis Bach
  - ○ Saturday, December 11 at 01:00 GMT (Friday, December 10 at 5:00 pm PST) in the final session of the conference

The NeurIPS Datasets and Benchmarks Chairs are pleased to announce two Best Paper Awards for the datasets and benchmarks track:

- **Datasets & Benchmarks Best Paper Award**:
  - ○ [Reduced, Reused and Recycled: The Life of a Dataset in Machine Learning Research](#)
  - ○ Authors: Bernard Koch, Emily Denton, Alex Hanna, Jacob Gates Foster

- ○ Wednesday, December 8 at 16:00 GMT (8:00 PST) in Dataset and Benchmark Track 2

- **Datasets & Benchmarks Best Paper Award**:
  - ○ [ATOM3D: Tasks on Molecules in Three Dimensions](#)
  - ○ Authors: Raphael John Lamarre Townshend, Martin Vögele, Patricia Adriana Suriana, Alexander Derry, Alexander Powers, Yianni Laloudakis, Sidhika Balachandar, Bowen Jing, Brandon M. Anderson, Stephan Eismann, Risi Kondor, Russ Altman, Ron O. Dror
  - ○ Wednesday, December 8 at 16:00 GMT (8:00 PST) in Dataset and Benchmark Track 2

This year's organizing committee is led by general chair Marc'Aurelio Ranzato, DeepMind and program chair Alina Beygelzimer, Yahoo Research, along with the program co-chairs Yann Dauphin, Google Brain, Percy Liang, Stanford University and Jenn Wortman Vaughan, Microsoft Research.

About Neural Information Processing Systems (NeurIPS) Conference

The conference is organized by the Neural Information Processing Systems Foundation, a non-profit corporation whose purpose is to foster insights into solving difficult problems by bringing together researchers from biological, psychological, technological, mathematical and theoretical areas of science and engineering. For more information, please visit the NeurIPS 2021 [website](#) and monitor the [NeurIPS blog](#) for event updates.

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