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Sponsoring Organizations

AAAI gratefully acknowledges the generous contributions of the following organizations and individuals to AAAI-20:

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- USC/ISI
- Verisk Analytics
- Center for Artificial Intelligence Research, University of Tsukuba
- Visa Research

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- David E. Smith
- Natasha Noy (Google, USA)
- Martha Palmer (University of Colorado Boulder, USA)
- Dragomir Radev (Yale University, USA)
- Thomas Schiex (Institut National de Recherche pour l’Agriculture, l’Alimentation et l’Environnement, France)
- Sylvie Thiébaux (The Australian National University, Australia)

Awards

AAAI Special Awards and honors will be presented Sunday, February 9, 8:00 – 8:30 AM, in the Grand Ballroom on the 3rd floor of the New York Hilton Midtown Hotel. AAAI-20 Awards will be presented on Tuesday, February 11, 8:00 – 8:30 AM in the same location.

2020 AAAI Special Awards, Honors

AAAI Honors and Special Awards will be presented by Subbarao Kambhampati, Awards Committee Chair and AAAI Past President, Yolanda Gil, AAAI President, and Bart Selman, AAAI President-Elect.

2020 AAAI Fellows Recognition

Each year, the Association for the Advancement of Artificial Intelligence recognizes a small number of members who have made significant sustained contributions to the field of artificial intelligence, and who have attained unusual distinction in the profession. AAAI is pleased to announce the ten newly elected Fellows for 2020, who will be honored during the annual Fellows dinner on Sunday, February 9, 2020:

Yoshua Bengio (Université de Montréal, Canada)
Cynthia Breazeal (MIT Media Lab, USA)
William T. Freeman (Massachusetts Institute of Technology and Google Research, USA)
Yann LeCun (New York University, USA)
Radhika Nagpal (Harvard University, USA)

2020 Senior Member Recognition

AAAI is pleased to announce the newly elected 2020 AAAI senior members, who are being rec-
Acknowledgements

The Association for the Advancement of Artificial Intelligence acknowledges and thanks the following individuals for their generous contributions of time and energy to the successful creation and planning of the Thirty-Fourth AAAI Conference on Artificial Intelligence, the Thirty-Second Conference on Innovative Applications of Artificial Intelligence, and the Tenth Symposium on Educational Advances in Artificial Intelligence. (A complete listing of the AAAI-20 and IAAI-20 Program Committee members will appear on the conference website.)

AAAI Conference Committee Chair
Peter Stone (University of Texas at Austin, USA)

AAAI-20 General Chair
Francesca Rossi (IBM Research, USA)

AAAI-20 Program Co chairs
Vincent Conitzer (Duke University, USA)
Fei Sha (Google Research and University of Southern California, USA)

Workflow Chairs
Haoming Li (Duke University, USA)
Yury Zemlyanskiy (University of Southern California, USA)

AAAI-20 Special Track on AI for Social Impact Co chairs
Fei Fang (Carnegie Mellon University, USA)
Eric Sodomka (Facebook Research, USA)
Milind Tambe (Harvard University, USA)

IAAI-20 Conference Chair and Co chair
Ruchir Puri (IBM Research, USA)
Neil Yorke-Smith (TU Delft, Netherlands)

EAAI-20 Symposium Co chairs
Nate Derbinsky (Northeastern University, USA)
Lisa Torrey (L. Stewart, University of Pennsylvania, USA)

Senior Member Track Co chairs
Judy Goldsmith (University of Kentucky, USA)
Sven Koenig (University of Southern California, USA)

Sister Conference Track Chair
Thomas Schiex (French National Institute for Agricultural Research, INRA, France)

Demonstrations Co chairs
Nicholas Matti (Tulane University, USA)
Kartik Talavadupala (IBM, USA)

Tutorial Forum Co chairs
Pradeep Varakantham (Singapore Management University, Singapore)
K. Brent Venable (HIMC and Tulane University, USA)

Workshop Program Co chairs
Min-Ling Zhang (Southeast University, China)
Biplav Srivastava (IBM, USA)

Presentation Chair
Eugene Freuder (University College Cork, Ireland)

Student Abstract Co chairs
Bo An (Nanyang Technological University, Singapore)
Nicola Gatti (Politecnico di Milano, Italy)

Doctoral Consortium Co chairs
Laura Hart (Naval Research Laboratory, USA)
Shiwali Mohan (PARC, USA)

Undergraduate Consortium Co chairs
Jim Boerkoel (Harvey Mudd College, USA)
Mehmet Ergezer (Wentworth Institute of Technology, USA)

Student Activities Co chairs
Sriraam Natarajan (University of Texas, Dallas, USA)
Nathan Sturtevant (University of Alberta, Canada)
William Yeoh (New Mexico State University, USA)

K-12 Student Outreach Co chairs
Dave Toutretzky (Carnegie Mellon University, USA)
Christina Gardner-McCune (University of Florida, USA)

AI in Practice Chair and Co chair
Evgeniy Gabrilovich (Google, USA)
Ashish Jha (Harvard University, USA)

AAAI/ACM SIGAI Job Fair Co chairs
John Dickerson (University of Maryland, USA)
Michael Albert (University of Virginia, USA)

Diversity and Inclusion Chair
Maria Gini (University of Minnesota, USA)

Fundraising Co chairs
Barry O’Sullivan (University College Cork, Ireland)
Pengzhong Tang (Tsinghua University, China)

AI History Panel Chair
Amy Greenwald (Brown University, USA)

AI Debate Chair
Kevin Leyton-Brown (University of British Columbia, Canada)

Volunteer Coordinator
Victor Khaustov (The University of Aizu, Japan)

The Association for the Advancement of Artificial Intelligence acknowledges and thanks the following individuals for their long-term participation in AAAI and their distinction in the field of artificial intelligence.

Yigal Arens (USC Information Sciences Institute, USA)
Wingyan Chung (University of Central Florida, USA)
Yun Fu (Northeastern University, USA)
Kobi Gal (Ben-Gurion University of the Negev, Israel and University of Edinburgh, UK)
Nick Hawes (University of Oxford, UK)
Lane Hemaspaandra (University of Rochester, USA)
Balaraman Ravindran (Indian Institute of Technology (IIT) Madras, India)
Paolo Remagnino (Kingston University, UK)

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2020 AAAI Classic Paper Award
The 2020 AAAI Classic Paper award honors the authors of the following paper deemed most influential from the Nineteenth National Conference on Artificial Intelligence, held in 2004 in San Jose, California, USA.

QUICKXPLAIN: Preferred Explanations and Relaxations for Over-Constrained Problems
Ulrich Junker
For developing an influential approach for formalizing and efficiently computing user-preferred failure explanations in over-constrained problems.

The Classic Paper Award Talk, by Ulrich Junker, will be held Sunday, February 9, at 9:30 AM in Regiment, 2nd floor.

2020 Distinguished Service Award
Henry Kautz (University of Rochester, USA)
For significant contributions to the field of artificial intelligence through sustained service to the Association for the Advancement of Artificial Intelli-
AAAI 2020 Special Posthumous Distinguished Service Award

Alan Schultz (Naval Research Laboratory, USA)

For significant contributions to the field of artificial intelligence through sustained service to the Association for the Advancement of Artificial Intelligence and the furtherance of the field as an organizer, researcher, and mentor.

2020 AAAI/EAAI Outstanding Educator Award and Lecture

The AAAI/EAAI Outstanding Educator Award was established to recognize a person (or group of people) who has (have) made major contributions to AI education that provide long-lasting benefits to the AI community. The 2020 award is being presented to Marie desJardins (Simmons University, USA) for leading the AI community in cultivating and recognizing advances in AI education, sharing pedagogical advances, increasing diversity, and improving K-12 CS teacher preparation. This award is jointly sponsored by AAAI and the Symposium on Educational Advances in Artificial Intelligence. The lecture will be held during EAAI-20 on Saturday, February 8, 9:05 AM, in Bryant, 2nd floor. (See lecture description on page 9.)

2020 Robert S. Engelmore Memorial Award and Lecture

The Robert S. Engelmore Award is sponsored by AAAI-20 and AI Magazine, and will be presented by Ruchir Puri and Neil Yorke-Smith, IAAI-20 Cochairs. The Robert S. Engelmore Award recognizes an individual who exemplifies the spirit of the field of AI, and has made significant contributions to AI research, development, and application. The Engelmore Award recognizes the total contributions of an individual, with particular attention to the time frame 1995-present. The Engelmore Award is sponsored by AAAI and the Symposium on Educational Advances in Artificial Intelligence. The lecture will be held at 9:05 AM, in Bryant, 2nd floor. (See lecture description on page 9.)

AAAI-20 Deployed Applications Awards

The ten AAAI-20 Deployed Applications Award will be announced during the Opening Ceremony on Sunday, February 9 by AAAI-20 Cochairs Ruchir Puri and Neil Yorke-Smith. Certificates will be presented during paper sessions.

AAA-20 Awards

The AAA-20 Awards will be presented by Program Cochairs Vincent Conitzer and Fei Sha.

AAAI-20 Outstanding Paper Awards

This year, AAAI’s Conference on Artificial Intelligence honors the following four papers, which exemplify high standards in technical contribution and exposition by regular and student authors.

AAAI-20 Outstanding Paper Award

Clarity: Data-Driven Automatic Assessment of Product Competitiveness
Sheema Usmani, Mariana Bernagozzi, Yufeng Huang, Michelle Morales, Amir Sabet Sarvestani, Biplov Srivastava

Day-Ahead Forecasting of Losses in the Distribution Network
Nitha Dalal, Martin Melni, Mette Herrem, Magne Reen, Odd Erik Gundersen

Embedding Convolution Neural Network-Based Defect Finder for Deployed Vision Inspector in Manufacturing Company Front View
Kyoung Jun Lee, Joon Wook Kwon, Soohong Min, Jungho Yoon

Yang Liu, Anbu Huang, Yun Luo, He Huang, Youzi Liu, Tsuyann Chen, Lican Feng, Tianjian Chen, Han Yu, Qiang Yang

Feedback-Based Self-Learning in Large-Scale Conversational AI Agents
Pragvaad Punnismay, Alireza Rashan Ghias, Chenlei Guo, Baolik Gani

Michael Powell, Jamison A. Rutz, Kevin D. O’Malley

PIDS: An Intelligent Electric Power Management Platform
Yongqing Zheng, Han Yu, Yuliang Shi, Kun Zhang, Shuai Zhen, Lizhen Cai, Cyril Leung, Chunjian Miao

Question Quality Improvement: Deep Question Understanding for Incident Management in Technical Support Domain
Amupama Ray, Csaba Hadhazy, Pouja Aggarwal, Gargi Dasgupta, Amit Paradi

Understanding Chats: Messages for Sticker Recommendations in Messaging Apps
Abhishek Laddha, Mohamed Hansooh, Debdoot Mukherjee, Parth Patwari, Ankur Narang

Special Meetings

AAAI Community Meeting / Annual Business Meeting

AAAI welcomes all conference attendees to the AAAI community meeting, which will also serve as the AAAI Annual Business Meeting. Please join us as we explore current initiatives, and help chart the future course and objectives of AAAI. The meeting will be held Wednesday, February 12, 1:00 – 1:50 PM in the Grand Ballroom. Moderator: Yolanda Gil, AAAI President

AAAI Conference Committee Meeting

The AAAI Conference Committee Meeting will be held Tuesday, February 11, 12:30 – 2:00 PM, Lincoln, 4th floor.

AAAI Executive Council Meeting

The AAAI Executive Council Meeting will be held Saturday, February 8, 9:00 AM – 4:00 PM, New York Room, 4th floor. Continental breakfast will be available at 8:30 AM.

AAAI Fellows Recognition Dinner

The AAAI Fellows Recognition Dinner will be held Sunday, February 9, 7:30 – 10:00 PM, Herb N’ Kitchen Runway and PDR2, Lobby level.

AAAI Publications Committee Meeting

The AAAI Publications Committee Meeting will be held Monday, February 11, 12:30 – 2:00 PM, Lincoln, 4th floor.

AI Magazine Editorial Board Meeting

The AI Magazine Editorial Board Meeting will be held Sunday, February 10, 12:30 – 2:00 PM, Lincoln, 4th floor.

JAIR Business Meeting

The JAIR Business Meeting will be held Tuesday, February 11, 1:15 – 2:00 PM, New York, 4th floor.
Diversity and Inclusion Programs

Participation in AI by groups that are underrepresented in computer science is a fraction of what is needed to have an AI workforce that reflects the diversity in society. Diversity has many facets, including races, ethnicities, genders, ages, religions, disabilities, sexual orientations, socioeconomic status, and cultural background. AAAI-20 will include several programs specifically designed to address this challenging issue. Please consult Guidebook for any additional programs.

Workshop on Diversity in AI:

**Artificial Intelligence — Diversity, Belonging, Equity, and Inclusion: Mentoring Students from Underserved Populations**
Friday, February 7
Concourse E, 2:00 – 5:00 pm
diverseinai.org/workshops/idbei/aaai2020
twitter.com/DiverseinAI
Organizer: William Hsu (Kansas State University)

Recognizing intrinsic links between students from underserved populations, the frequent incidence among these students of intersectional identity, and a desire to help their communities, this workshop will consist of presentations and a panel discussion on mentoring students from such populations — the challenges and opportunities. The primary objective is to discuss work at the nexus of inclusive AI education, education research pertinent to AI and underrepresented groups of students, and AI for Good as applicable to underserved students’ own communities, and to help share the word about efforts to serve such students.

**AI — Its Purpose & Power. Humans — Our Purpose & Power**
Saturday, February 8
Nassau, 9:00 AM – 2:15 PM
Organizer: Tara Chklovski (Technovation)

A hands-on workshop for those of us who are new to AI. Technovation, a global technology education nonprofit and Cooper Union, will host an "Intro to AI" workshop for the broader public, and educators. The workshop will introduce the basics of AI and how to identify and address meaningful problems, aligned with the UN SDGs, using AI-based technologies. The workshop will conclude with real-world insights and strategies from young women who have used technology (mobile and AI) to address SDGs in their communities. Preregistration required.

**Try AI**
Saturday, February 8
City College of New York
sites.google.com/g.harvard.edu/tryai
Organizers: Elizabeth Bondi (Harvard University), Alexia Stokes (Harvard University), Isha Puri (Harvard University), Anika Puri (Horace Greeley High School)

This off-site activity is designed for high-school female students.

Undergraduate Workshop:

**AI-Powered Robotics**
Saturday, February 8: Hunter College.
Sunday, February 9: American Museum of Natural History
bit.do/AAAI20-Outreach
Organizers: David Touretzky (CMU), Roozbeh Aliabadi (ReadyAI LLC), Anita Raja (Hunter College)

Activity for undergraduates interested in AI and intelligent robots. On Saturday, participants will work in teams using Calypso and the Cozmo robot to build demos or games that illustrate how artificial intelligence can improve our lives. Then, on Sunday, they will host a free, open event where members of the public can experience their creations. Preregistration required.

**Black in AI Lunch**
Sunday, February 9
Papillon Bistro
By invitation and preregistration only.
Chair: Krystal Maughan (University of Vermont)

Black in AI was formed as a space for sharing ideas, collaborating and discussing initiatives to increase the presence of Black people in the field of Artificial Intelligence.

**LatinX in AI Lunch**
Monday, February 10
Papillon Bistro
By preregistration only.
Chairs: Pablo Castro (Google), Laura Montoya (Accel.AI)

Women’s Mentoring Breakfast
Monday, February 10
Beekman, 7:30 – 8:45 AM
Organizer: Maria Chang (IBM)

The gender gap in computer science has been well-documented. One way to make our field more inclusive toward women is to increase the visibility of mid- and advanced-career women in our field. The Women’s Mentoring Breakfast at AAAI-20 will give women students and early-career researchers the opportunity to meet women leaders in the field. Preregistration required.

**DivinAI Hackfest: How Diverse are Top Artificial Intelligence Conferences?**
Monday, February 10
Concourse G, 9:00 AM – 5:00 PM
divina.org/hackFestNY20
Organizers: Ana Freire (Universitat Pompeu Fabra, Spain), Emilia Gómez (Joint Research Centre, European Commission)

The AI field is suffering a crisis of diversity, meaning that several minorities are underrepresented in the development of AI systems. This is particularly reflected in top AI conferences, where the lack of gender and cultural diversity is specially visible. This activity aims to raise awareness on this issue by gathering data from top conferences and calculating their corresponding diversity index, in terms of gender, geographical location and presence of academia versus industry.

**Promoting Deaf Inclusion and Collaboration in Artificial Intelligence**
Tuesday, February 11
Concourse G, 9:00 AM – 5:00 PM
Organizers: Prajwal Paudyal, Ayan Banerjee, Soukaina Lamrani, and Sandeep Gupta (Arizona State University)

An activity in which hearing participants of AAAI attempt to communicate specific computer science related topics to deaf participants using sign language. Hearing participants will be given a set of sentences they have to communicate to deaf participants. In order to learn the signs needed to communicate them, the activity will include several kiosks with an intelligent sign language tutor application called Learn2Sign. After practicing the signs needed for communicating the sentences, the hearing participant will approach one deaf participant to practice their newly acquired American Sign Language skills and get feedback.

**Mid-Career Diversity Tea and Cake**
Tuesday, February 11
New York, 3:00 – 5:00 pm
Organizers: Rosina Weber (Drexel University), Karen Myers (SRI International Artificial Intelligence Center)

The meeting will focus on issues pertinent to researchers at mid-career levels. It is targeted to mid-career members of underrepresented communities. Preregistration required.

Outstanding Paper Award,
Honorable Mention:

*A Unifying View on Individual Bounds and Heuristic Inaccuracies in Bidirectional Search*
Vidal Alcazar, Pat Riddle, Mike Barley

Outstanding Student Paper Award,
Honorable Mention:

*Lifelong Learning with a Changing Action Set*
Yash Chandak, Georgios Theoharakus, ChrisNota, Philip S. Thomas

Outstanding Paper Award: Special Track on AI for Social Impact

*A Distributed Multi-Sensor Machine Learning Approach to Earthquake Early Warning*
Kevin Faurel, Daniel Balouek-Thomert, Diego Melgar,
The recipients of the Blue Sky Idea travel awards, new application domains, or new methodologies. To pursue new directions, such as new problems, solutions that can stimulate the research community.

AAAI-20 Blue Sky Idea Awards for papers that present ideas and visions that can stimulate the research community.

A $125.00 per person fee ($20.00 for children over the age of 12) will be charged for guests and other nontechnical conference registrants.

Each AAAI-20 poster/demo session will include posters by authors of main technical track papers, including all who are presenting poster spotlights as well as those who have made full oral presentations (if they elected to do so). Poster presentations are scheduled on the same evening as the oral presentation or spotlight presentation, except for Wednesday oral presentations, which will be presented in poster format on Tuesday evening. Sunday evening posters will also include International Science Fair AAAI award-winning projects, Doctoral Consortium papers, and AAAI-20 posters. A total of 25 technical demos and 137 student abstract posters will be divided among the three evening sessions. For a listing of posters and demos, please see the online technical schedule via Guidebook and the AAAI-20 Poster/Demo Program Guide.

Poster/Demo sessions will include light suppers and complimentary soft drinks. A no-host bar will also be available. Admittance to the reception is included in the AAAI-20 registration. A $25.00 per person fee ($15.00 for children over the age of 12) will be charged for guests and other nontechnical conference registrants per night.

Outstanding Paper Honorable Mention: Special Track on AI for Social Impact

The Unreasonable Effectiveness of Inverse Reinforcement Learning in Advancing Cancer Research

John Kalantari, Heidi Nelson, Nicholas Chia

AAAI-20 Blue Sky Idea Awards

AAAI, in cooperation with the Computing Research Association Computing Community Consortium (CCC), is pleased to present three Blue Sky Awards for papers that present ideas and visions that can stimulate the research community to pursue new directions, such as new problems, new application domains, or new methodologies. The recipients of the Blue Sky Idea travel awards, sponsored by the CCC, are:

First Place:
Philip R. Cohen for Back to the Future for Dialogue Research

Second Place:
Sarit Kraus, Amos Azaria, Jelena Fiosina, Maike Greve, Noam Hazon, Lutz Kolbe, Tim-Benjamin Lehmbcke, Jörg P. Müller, Soren Schlebaum, and Mark Vellrath for AI for Explaining Decisions in Multi-Agent Environments

Third Place:
Gerardo Ocampo Diaz and Vincent Ng for Unveiling Hidden Intentions

AAAI-20 Outstanding Program Committee Members

Each year, AAAI recognizes several outstanding program committee and senior program committee members. These individuals have gone above and beyond the expectations for the role, showing exceptional judgment, clarity, knowledgeability, and leadership in reaching a consensus decision.

AAAI-20 Outstanding Senior Program Committee Awards

Anelia Angelova (Google, USA)

AI History Panel: Advancing AI by Playing Games

Building AI to play games as well as human masters has been a goal of AI ever since Arthur Samuel’s seminal checkers program in 1959. Today’s game-playing programs have surpassed human performance in substantially harder games, including backgammon, chess, poker, and Go. Still, in multi-player games, especially those played by embodied agents such as soccer, significant AI challenges remain. This panel will include representatives of efforts to build machines that excel at playing these games, discussing the main ingredients of the technology they developed, the challenges they encountered, and how the agenda of building expert game-playing machines furthers progress on the real-world goals of AI.

AI Debate: Academic AI Research in an Age of Industry Labs

Proposition: Academic AI researchers should focus their attention on research problems that are not of immediate interest to industry.

Moderator: Kevin Leyton-Brown (University of British Columbia, Canada)

This lighthearted and entertaining debate will examine the broad theme of how academic AI researchers should direct their efforts to have the most impact now that industry is investing huge amounts into in-house research efforts. Teams of two will argue each side as forcefully as they can (regardless of more nuanced positions the participants may hold), but will then conclude by seeking a middle ground and reflecting on strong arguments from the other side. Finally, we’ll hear from the audience.

AI History Panel:
Hiroaki Kitano (Sony), David Silver (DeepMind and University College London), Garry Kasparov (Russian Chess Grandmaster)

Advancing AI by Playing Games:
Miquel Ramirez (University of Melbourne, Australia), Murray Campbell (IBM), Michael Bowling (University of Alberta), Sarath Sreedharan (Arizona State University, USA), Thomas Keller (University of Basel, Switzerland), Junyi Jessy Li (University of Texas at Austin, USA), Dominik Peters (University of Oxford, UK), Daniel Preotiuc-Pietro (University of Pennsylvania, USA), Michele Flammini (Gran Sasso Science Institute, Italy), Amy Greenwald (Brown University), Michael Bowling (University of Alberta), Hiroaki Kitano (Sony), David Silver (DeepMind and University College London), and Garry Kasparov (Russian Chess Grandmaster)

AAAI-20 Outstanding Program Committee Awards

Ingo Pill (TU Graz, Austria), Sergio Mover (Ecole Polytechnique, France), Alexander D’Amore (Google Brain, USA), Rodrigo de Salvo Braz (SRI International, USA), Sarah Sreedharan (Arizona State University, USA), Sarath Sreedharan (Arizona State University, USA), Sergio Mover (Ecole Polytechnique, France), Alexander D’Amore (Google Brain, USA), Rodrigo de Salvo Braz (SRI International, USA), Chris Harshaw (Yale University, USA), Andrezj Kaczmarscyk (TU Berlin, Germany)
**Tutorial Forum**

The AAAI-20 Tutorial Forum is open to all technical registrants for a small fee per tutorial. Half-day tutorials are 4 hours, including breaks; quarter-day tutorials are one hour and 45 minutes with no break. Quarter-day tutorials are denoted by a ‘Q’ at the end of the tutorial code. Tutorial coffee breaks will be held at 10:15 AM and 3:45 PM outside the designated meeting spaces.

**Friday, February 7**

8:30 AM – 12:30 PM

**FA1: AI in Precision Medicine: Towards Knowledge Empowered Intelligence over "Small" Data**
Fei Wang
Beekman, 2nd floor

**FA2: AI Planning for Robotics with ROSPlan**
Michael Cashmore and Daniele Megazzini
Sutton Center, 2nd floor

**FA3: Exploration-Exploitation in Reinforcement Learning**
Mohammad Ghavamzadeh, Alessandro Lazaric and Matteo Pirotta
Sutton North, 2nd floor

**FA4: Graph Neural Networks: Models and Applications**
Yao Ma, Wei Jin, Jiliang Tang, Lingfei Wu and Tengfei Ma
Sutton South, 2nd floor

**FA5: Recent Directions in Heuristic-Search**
Ariel Felner, Sven Koenig, Nathan Sturtevant and Daniel Harabor
Regent, 2nd floor

2:00 PM – 6:00 PM

**FP1: Differential Deep Learning on Graphs and its Applications**
Chengxi Zang and Fei Wang
Sutton North, 2nd floor

**FP2: New Frontiers of Automated Mechanism Design for Pricing and Auctions**
Maria Florina Balcan, Tuomas Sandholm and Ellen Vitercik
Beekman, 2nd floor

**FP3: Probabilistic Circuits: Representations, Inference, Learning and Applications**
Antonio Vergari, Yuqiang Choi, Robert Peharz, and Guy Van den Broeck
Beekman, 2nd floor

**FP4: Recent Advances in Transferable Representation Learning**
Muhaoo Chen, Kai-Wei Chang and Dan Roth
Sutton South, 2nd floor

**FP5: Statistical Machine Learning: Big, Multi-Source and Sparse Data with Complex Relations and Dynamics**
Trong Dinh Thac Do, Longbing Cao and Jinjin Guo
Regent, 2nd floor

**Saturday, February 8**

8:30 AM – 12:30 PM

**SA1: Explainable AI: Foundations, Industrial Applications, Practical Challenges, and Lessons Learned (Part Two)**
Freddy Lecue, Krishna Gade, Fosca Giannotti, Sahin Geyik, Riccardo Guidotti, Krishnaram Kenthapadi, Pasquale Minervini, Varun Mithal and Ankur Taly
Sutton North, 2nd floor

**SP1: Multi-Agent Distributed Constrained Optimization**
Ferdinando Fioretto and William Yeoh
Beekman, 2nd floor

4:15 PM – 6:00 PM

**SP5: Creative and Artistic Writing via Text Generation**
Juntao Li and Rui Yan
Beekman, 2nd floor

**SP6: Recent Advances in Machine Teaching: From Machine to Human**
Yao Zhou and Jingrui He
Sutton North, 2nd floor

Dario Bertero (Hitachi, Ltd., Japan)
Mahmoud Assran (McGill University / Facebook AI Research, Canada)
Brais Martinez (Samsung AI Research, USA)

Konstantin Mishchenko (King Abdullah University of Science and Technology, Saudi Arabia)
Mak Roberts (Naval Research Laboratory, USA)
### Saturday, February 8

**9:05 – 9:55 AM**

**AAAI/EAII Outstanding Educator Award Lecture:**

**#AIForAll: A 64-Year Perspective on AI, Computing, Inclusion, and Diversity**

**Marie desJardins (Simmons University, USA)**

As the AI community prepares to celebrate the 2^8 anniversary of the Dartmouth Summer Research Project on Artificial Intelligence that launched AI as a field, it is an appropriate time to look back over the last 64 years to consider how far we have progressed. This presentation will focus particularly on trends in education, diversity, and inclusion in AI and in computing more generally. The talk will also include recommendations for the field, including an increased emphasis on ethical computing, best practices for inclusive classroom and work environments, and how to be an effective ally for underrepresented groups.

Marie desJardins is the Dean of the College of Organizational, Computational, and Information Sciences at Simmons University in Boston. She was previously a professor at the University of Maryland, Baltimore County, where she was a UMBC Presidential Teaching Professor, Academic Innovation Fellow, Honors Faculty Fellow, and Associate Dean of UMBC’s College of Engineering and Information Technology. She is a AAAI Fellow, an ACM Distinguished Member, and the recipient of the A. Richard Newton Educator ARIE Award, the UC Berkeley Distinguished Alumni Award in Computer Science, and mentoring awards from CRA-E and NCWIT. Dr. desJardins is known for her research in artificial intelligence, her work in expanding access to K-12 computer science education, and her leadership as a mentor, teacher, and champion for diversity in computing. While at UMBC, she advised 12 Ph.D. students, 26 M.S. students, and over 180 undergraduate researchers.

### Sunday, February 9

**8:00 – 8:30 AM**

**AAAI-20 / IAAI-20 Welcome and Opening Remarks, AAAI Organizational Awards and Honors**

**8:30 – 9:20 AM**

**AAAI Presidential Address**

**Yolanda Gil (USC Information Sciences Institute, USA)**

Yolanda Gil is Director of Knowledge Technologies at the Information Sciences Institute of the University of Southern California, and Research Professor in Computer Science and in Spatial Sciences. She is also Director of the USC Center for Knowledge-Powered Interdisciplinary Data Science. She received her M.S. and Ph. D. degrees in Computer Science from Carnegie Mellon University, with a focus on artificial intelligence. Dr. Gil collaborates with scientists in many domains on intelligent, workflows, semantic metadata capture, social knowledge collection, computer-mediated collaboration, and automated discovery. Her current focus is on using artificial intelligence for environmental resources, integrating climate, hydrology, agriculture, and socioeconomic models. She is a Fellow of the Association for Computing Machinery (ACM), and Past Chair of its Special Interest Group in Artificial Intelligence. She is also Fellow of the Association for the Advancement of Artificial Intelligence (AAAI), and was elected as its 24th President in 2016.

### Monday, February 10

**8:30 – 9:20 AM**

**Combining Machine Learning and Control for Reactive Robots**

**Aude Billard (EPFL – Ecole Polytechnique Federale de Lausanne, Switzerland)**

Robots have got out of the secure and predictable environment of factories and start to face the complexity and unpredictability of our daily environments. To avoid that robots fail lamely at the task they are programmed to do, robots now need to adapt on the go. I will present techniques from machine learning to allow robots to learn strategies to enable them to react rapidly and efficiently to changes in the environment, and applications of these techniques for rapid and robust manipulation of objects.
Special ACM Turing 2018 Award Winner Event and Panel

Yoshua Bengio (University of Montreal and Mila), Geoffrey E. Hinton (Google, The Vector Institute, and University of Toronto),
Yann LeCun (New York University and Facebook)

Sunday, February 9, 5:20 – 7:20 PM, Grand Ballroom

This special two-hour event will feature individual talks by each speaker, followed by a panel session. ACM named Yoshua Bengio, Geoffrey Hinton, and Yann LeCun recipients of the 2018 ACM A.M. Turing Award for conceptual and engineering breakthroughs that have made deep neural networks a critical component of computing. Bengio is Professor at the University of Montreal and Scientific Director at Mila, Quebec’s Artificial Intelligence Institute; Hinton is VP and Engineering Fellow of Google, Chief Scientific Adviser of The Vector Institute, and University Professor Emeritus at the University of Toronto; and LeCun is Professor at New York University and VP and Chief AI Scientist at Facebook.

Turing Award Winner AAAI Talk

Deep Learning for AI

Yoshua Bengio (Mila (Quebec AI Institute))

Artificial Intelligence (AI) research has been transformed in fundamental ways by the development and success of deep learning. Whereas symbolic approaches to AI focused on human-provided formal knowledge presented as logical rules and facts, much of what humans know is not accessible to them consciously and is thus difficult to communicate with computers. Machine learning bypasses this problem by allowing the computer to acquire that knowledge from data, observations and interactions with an environment. Neural networks and deep learning are machine learning methods inspired by the brain in which information is not represented by symbolic statements but instead where concepts have distributed representations, patterns of activations of features which can overlap across concepts, making it possible to quickly generalize to new concepts. When we make it possible to compose modules which process such distributed representations (either recursively or through layers of processing) it is possible to represent very rich functions compactly and obtain even better generalization. More recently, deep learning has gone beyond its traditional realm of pattern recognition over vectors or images and expanded into many self-supervised methods and generative models able to capture complex multimodal distributions, into models with attention which can process graphs and sets, leading to breakthroughs in speech recognition and synthesis, computer vision and machine translation, for example. The talk closes with a discussion of current limitations and forward-looking research directions towards human-level AI.

Turing Award Winner AAAI Talk

Stacked Capsule Autoencoders

Geoffrey Hinton (Google and The Vector Institute)

An object can be seen as a geometrically organized set of interrelated parts. A system that makes explicit use of these geometric relationships to recognize objects should be naturally robust to changes in viewpoint, because the intrinsic geometric relationships are viewpoint-invariant. We describe an unsupervised version of capsule networks, in which a neural encoder, which looks at all of the parts, is used to infer the presence and poses of object capsules. The encoder is trained by back-propagating through a decoder, which predicts the pose of each already discovered part using a mixture of pose predictions. The parts are discovered directly from an image, in a similar manner, by using a neural encoder, which infers parts and their affine transformations. We learn object- and part-capsules on unlabeled data, and then cluster the vectors of presences of object capsules. When told the names of these clusters, we achieve state-of-the-art results for unsupervised classification on MNIST.

Turing Award Winner AAAI Talk

Self-Supervised Learning

Yann LeCun (Facebook AI Research & New York University)

Almost all the recent progress in computer perception, speech recognition, and NLP has been built around supervised deep learning, in which machines are required to predict human-provided annotations. Today, DL systems are at the core of search engines and social network content filtering and retrieval, medical image analysis, driving assistance, and many areas of science. But the best machine learning methods still require considerably more data or interaction with the environment than human and animal learning. How do we get machines to learn massive amounts of background knowledge about how the world works by observation in a task-independent way, like animals and humans? One promising avenue is self-supervised learning (SSL), where the machine predicts parts of its input from other parts of its input. SSL has already brought about great progress in discrete domains such as audio, images and video.

AAAI-20 Conference Awards

Presented by Vincent Comitz and Fei Zha, Co-chairs

AAAI-20 Conference Awards

8:30 – 9:20 AM

AAAI-20/IAAI-20 Joint Invited Talk:

AI and Security: Lessons, Challenges and Future Directions

Dawn Song (University of California, Berkeley, USA)

Dawn Song is a Professor in the Department of Electrical Engineering and Computer Science at the University of California, Berkeley. Her research interest lies in AI and deep learning, security and privacy. She is the recipient of various awards including the MacArthur Fellowship, the Guggenheim Fellowship, the NSF CAREER Award, the Alfred P. Sloan Research Fellowship, the MIT Technology Review TR-35 Award, and Best Paper Awards from top conferences in Computer Securi-

ty of Rochester. He has been a researcher at AT&T Bell Labs in Murray Hill, NJ, and a full professor at the University of Washington, Seattle. In 2010, he was elected President of AAAI, and in 2016 was elected Chair of the AAAI Section on Information, Computing, and Communication. His interdisciplinary research includes practical algorithms for solving worst-case intractable problems in logical and probabilistic reasoning; models for inferring human behavior from sensor data; pervasive healthcare applications of AI; and social media analytics. In 1989 he received the IJCAI Computers and Thought Award, which recognizes outstanding young scientists in artificial intelligence, and 30 years later received 2018 ACM-AAAII Allen Newell Award for career contributions that have breadth within computer science and that bridge computer science and other disciplines.

6:15 – 7:15 PM

AAAI-20 Oxford-Style Debate:

Academic AI Research in an Age of Industry Labs

Moderator: Kevin Leyton-Brown

(University of British Columbia, Canada)

See page 7 for details.

Tuesday, February 11

8:00 – 8:30 AM

Challenges and Future Directions

Dawn Song (University of California, Berkeley, USA)
The Economic Value of Data

Susan Athey (Stanford University, USA)

This presentation reviews recent research about consumer choices in shopping, for example in supermarkets. Historically a large literature in economics and marketing studied consumer choices among brands, considering one product category at a time. A series of recent papers makes use of advances in computation and techniques from matrix factorization to study consumer responses to price changes using observational data from consumer transactions. One question that arises is the value of data (for example, the increase in profit from using additional data), comparing the value of different types of data, e.g. more consumers or longer retention for each consumer.

Thursday, February 13
8:40 – 9:40 AM
AAAI-20 Invited Talk:
The Economic Value of Data for Targeted Pricing

Susan Athey (Stanford University, USA)

AAAI is pleased to offer the following student activities designed to enrich the student experience at the AAAI conference. For complete information about Student Programs at AAAI-20, please see aaai.org/Conferences/AAAI-20/aaai-20-student-activities-overview.

Student Welcome Reception

Sponsored by
USC/Information Sciences Institute
Friday, February 7, 6:00 – 7:30 pm, Mercury Suite, 3rd floor

All students are welcome at the AAAI-20 Student Welcome Reception. Light refreshments will be served.

Student Activities and Outreach

AAAI-20 Invited Talk:
How Not to Destroy the World With AI

Stuart Russell (Univ. of California, Berkeley, USA)

Stuart Russell received his B.A. with first-class honours in physics from Oxford University in 1982 and his Ph.D. in computer science from Stanford in 1986. He then joined the faculty of the University of California at Berkeley, where he is Professor (and formerly Chair) of Electrical Engineering and Computer Sciences, holder of the Smith-Zadeh Chair in Engineering, and Director of the Center for Human-Compatible AI. He has served as an Adjunct Professor of Neurological Surgery at UC San Francisco and as Vice-Chair of the World Economic Forum's Council on AI and Robotics. He is a recipient of the Presidential Young Investigator Award of the National Science Foundation, the IJCAI Computers and Thought Award, the World Technology Award (Policy category), the Mitchell Prize of the American Statistical Association, the Feigenbaum Prize of the Association for the Advancement of Artificial Intelligence, and Outstanding Educator Awards from both ACM and AAAI. From 2012 to 2014 he held the Chaire Blaise Pascal in Paris, and he has been awarded the Andrew Carnegie Fellowship for 2019 to 2021. He is an Honorary Fellow of Wadham College, Oxford; Distinguished Fellow of the Stanford Institute for Human-Centered AI; Associate Fellow of the Royal Institute for International Affairs (Chatham House); and Fellow of the Association for the Advancement of Artificial Intelligence, the Association for Computing Machinery, and the American Association for the Advancement of Science. His book Artificial Intelligence: A Modern Approach (with Peter Norvig) is the standard text in AI. His research covers a wide range of topics in artificial intelligence including machine learning, probabilistic reasoning, knowledge representation, planning, real-time decision making, multitarget tracking, computer vision, computational physiology, and philosophical foundations. He also works for the United Nations, developing a new global seismic monitoring system for the nuclear-test-ban treaty. His current concerns include the threat of autonomous weapons and the long-term future of artificial intelligence and its relation to humanity.
Special Tracks at AAAI-20

AAAI-20 Special Track on AI for Social Impact
Sunday – Monday, February 9-10, Sutton South, 2nd floor
AAAI-20 is pleased to present the Special Track on AI for Social Impact. This track recognizes that high-quality research on social impact domains often leads to papers that differ from traditional AAAI submissions along multiple dimensions. These are motivated by the following issues:

- Data collection may be difficult and may require innovative methods and validations, for instance to address large scale data gathering in the field, eliminate bias and ensure fairness.
- Problem modeling is a time-intensive activity that require significant collaborations with domain experts and needs to balance a variety of trade-offs in decision making.
- Social impact may be realized through time-consuming field studies that typically compare a baseline with the application of novel algorithms in the real world, and the experimental design can be challenging and the evaluation may be multifaceted.

The goal of this track at AAAI 2020 is to highlight these technical challenges and opportunities and to showcase the social benefits of artificial intelligence. The program includes 25 technical papers in full oral presentations. For complete schedule information, please consult the online program.

Senior Member Presentations
Sunday and Monday, February 9 –10, Regent, 2nd floor
The AAAI-20 Senior Member Presentation track comprises two subtracks: Summary Talks: established researchers provide broad talks on a well-developed body of research or an important new research area; and Blue Sky Talks: authors present ideas and visions that can stimulate the research community to pursue new directions, such as new problems, new application domains, or new methodologies, that are likely to stimulate significant new research. Six summary talks and eight Blue Sky talks will be presented (please see the online conference schedule for exact times). For more information about the Blue Sky Awards, please see page 7.

Sister Conference Track
Monday, February 10, Nassau, 2nd floor
The AAAI-20 Sister Conference Track is designed to foster communication inside the field of artificial intelligence. The track will present exciting recent advances in subareas of artificial intelligence through the lens of major sister conferences. Sixteen talks derived from the following conferences will be featured: ICML, ICLR, UAI, AAMAS, ECML-PKDD, ICAPS, SAT, CP, ICCV, ACL, AIIDE, ILP, ICWSM,CogSci, ACM EC, and ACM FAT*. Please see the online conference schedule for exact talk times.

AI in Practice
Wednesday, February 12, Grand Ballroom
The 2020 edition of AI in Practice will focus on emerging applications of AI in healthcare. The aim of the program is to offer a venue for exchanging ideas among participants from different disciplines, from general computer science, to AI and ethics, to medicine and public health. The event program will include keynotes, invited talks, and a discussion panel. Keynote addresses will be presented by Vivian Lee (President, Health Platforms, Verily Life Sciences) and Aneesh Chopra (President, CareJourney, former first CTO of the United States).

Keynote
Big Data, AI and the Journey to Value Driven Care

Vivian S. Lee (Verily Life Sciences)
To improve outcomes and reduce the costs of care, health systems are increasingly being expected to deliver higher levels of value to their patients and families. How can new and existing sources of data, combined with AI tools and analytics support the move to value-based care? What are the most promising ways in which they can improve the engagement of both patients and physicians in the co-production of health? Vivian Lee, President of Verily Health Platforms and former CEO of University of Utah Health, will explore these questions in her presentation, Big Data, AI and the Journey to Value Driven Care.

Keynote
Connecting Dots: How Open Data, Open APIs, and Payment Reform will Fuel Care Delivery Reform

Aneesh Chopra (CareJourney, Former U.S. Chief Technology Officer (2009-2012))
The need to reform the way we deliver care continues as fiscal, access and quality pressures continue to mount. Building on the progress of the Obama Administration, the Trump Administration has launched the “MyHealthEData” initiative anchored on consumer-directed health exchange; opened up more government data for measuring performance, including Medicare Advantage and Medicaid encounters; and added more risk-based alternative payment models. In this presentation, Chopra shares his views on how AI-powered consumer-trusted applications will help patients make better decisions at each step of their care journey. For detailed presentation information, please refer to the online conference schedule.

A full list of AI in Practice presentations and a schedule is available at aaii.org/Conferences/AAAI-20/ai-in-practice.

AAAI 2020 Sticker Social Event
In past years AAAI has hosted a research speed dating event to facilitate social interactions at the conference. This year, there will not be a single social event for this purpose, but participants are encouraged to interact throughout the conference. To facilitate this, participants will be provided with stickers and are encouraged to place the answer to social questions on their name tag. Doing so means that you are open to social interactions with people at the conference that you do not know. Find stickers and instructions near the registration desk and at the student reception. A special AI sticker will be given to those who meet new people at the conference.

Unofficial Student Slack Channel
If you are interested in finding and meeting other students to participate in activities at AAAI, consider joining the (unofficial) student slack channel. Instructions for joining can be found at aaii.org/AAAI20.

AAAI/SIGAI Doctoral Consortium
Friday – Saturday, February 7-8
Nassau West, 2nd floor
The Twenty-Fifth AAAI/SIGAI Doctoral Consortium (DC) provides an opportunity for a group of Ph.D. students to discuss and explore their research interests and career objectives in an interdisciplinary workshop together with a panel of established researchers. The seventeen students accepted to participate in this program will also participate in the AAAI-20 evening Poster / Demo Session 1 on Sunday, February 9. All interested AAAI-20 student registrants are invited to observe the presentation, as space allows.

AAAI and SIGAI gratefully acknowledge the generous grants from AI Journal and David E. Smith, which make this program possible. The DC schedule is available at aaii-dc.github.io.
Collocated Conferences at AAAI-20

AAAI/ACM Conference on AI, Ethics, and Society

Friday and Saturday, February 7–8
Trianon Ballroom, 3rd floor

As AI is becoming more pervasive in our life, its impact on society is more significant and concerns and issues are raised regarding aspects such as value alignment, data handling and bias, regulations, and workforce displacement. Only a multi-disciplinary and multi-stakeholder effort can find the best ways to address these concerns, including experts of various disciplines, such as ethics, philosophy, economics, sociology, psychology, law, history, and politics. In order to address these issues in a scientific context, AAAI and ACM joined forces to start this conference in 2018. Attendance at AIES 2020 is available for an additional fee. The full schedule for the AIES 2020 Conference is available at www.aies-conference.com, and will be distributed in hard copy to registered attendees.

The Thirty-Second Annual Conference on Innovative Applications of Artificial Intelligence (IAAI-20)

Sunday – Tuesday, February 9–11
Sutton Center, 2nd floor

The Thirty-Second Annual Conference on Innovative Applications of Artificial Intelligence (IAAI-20) focuses on successful applications that showcase novel uses of AI technology. The conference includes technical papers, challenge papers, and invited talks to explore issues, methods, and lessons learned in the development and deployment of AI applications; and to promote an interchange of ideas between basic and applied AI. IAAI-20 has three tracks: (1) 11 deployed application case studies, (2) 27 emerging applications or methodologies, and (3) one challenge problem paper.

Registration for IAAI-20 is included in the AAAI-20 technical program registration. The proceedings of the IAAI program will be included in the full AAAI-20 proceedings, and electronic copies of all papers are available via the online schedule (Guidebook). For full information on the three IAAI-20 invited talks, please see pages 9–10. For the schedule of paper presentations, please refer to the online schedule.

The Tenth Symposium on Educational Advances in Artificial Intelligence

Saturday – Sunday, February 8–9
Bryant, 2nd floor

EAAI-20 (eaaai.cs.mtu.edu) provides a venue for researchers and educators to discuss issues and share resources related to teaching AI and using AI in education. Most contributions address undergraduate and graduate education, but some extend to the K-12 and postgraduate levels. The program comprises two invited talks, including the Outstanding Educator Award Lecture, a main track, and special tracks on AI for Education, Blue Sky Ideas, Model AI Assignments, and the EAAI-21 Undergraduate Research Challenge.

Registration for EAAI-20 is included in the AAAI-20 technical program registration. An EAAI-20 only registration is also available for registrants who wish to attend the symposium only. The proceedings of the EAAI program will be included in the full AAAI-20 proceedings, and electronic copies of all papers are available via the online schedule (Guidebook). EAAI posters will be presented Sunday, February 9 in the AAAI-20 Poster / Demo Session in Americas Hall I/II.

EAAI-20 presentation lengths will be as follows:
- Main Track full papers: 20 minutes each
- Main Track Poster lightning talks: 5 minutes each
- Model AI Assignment papers: 15 minutes each
- Blue Sky Ideas: 5 minutes each

For full information on invited talks and panels, please see page 9. For the schedule of paper presentations, please refer to the online schedule.

Student Abstract and Poster Program

Oral Presentations: Monday, February 10, 9:30 – 10:45 AM, Bryant, 2nd floor
Poster Presentations: Sunday – Tuesday
February 9-11 evenings, Americas Hall I/I

The Student Abstract and Poster program provides a forum in which students can present and discuss their work during its early stages, meet some of their peers who have related interests, and introduce themselves to more senior members of the field. Students who have been selected as part of a group of 20 finalists to compete for the “Best Student 3-Minute Presentation” will present their work in 3-minute spotlight talks in parallel with other technical sessions. These students will present their posters on Monday evening during the conference-wide poster/demo session. The remaining student abstract posters will be presented on all three evenings.

AAAI Undergraduate Consortium

Friday, February 7
Nassau East, 2nd floor

The AAAI Undergraduate Consortium (AAAIUC) will include a mentoring program for undergraduates attending AAAI and offer undergraduate students an opportunity to enrich their conference experience by (1) presenting and receiving critical feedback about their work in a professional, academic setting; (2) meeting prospective graduate advisors; (3) receiving mentoring about the advantages (and disadvantages) of pursuing graduate studies in AI as well as practical early career advice; (4) expanding their professional network to include both AI experts, current graduate students, and undergraduate peers; and (5) providing advice, tools, and resources for successfully applying to and attending graduate school in an AI-related research. All interested AAAI-20 undergraduate student registrants are invited to observe the presentations, as space allows.

AAAI gratefully acknowledge the generous grants from AI Journal, which makes this program possible. Please consult Guidebook for the presentation schedule.

AAAI Fellow / Student Lunches

Sunday – Wednesday, February 9 – 12
12:30 – 2:00 PM

First held in 2006, the AAAI Fellow / Student Lunches program provides an opportunity for a small number of students to chat with a AAAI Fellow over an informal lunch during the conference. Sign-up sheets will be available AFTER 3:00 PM on Saturday, February 8 at the onsite registration desk on the 2nd floor Fromenade. Students should meet their designated Fellow in onsite registration on their assigned day.

Student Abstract and Poster Program

COLOCATED CONFERENCES / STUDENT PROGRAMS 13
An award will be presented for the "Best Student Poster." For a list of posters each night, please see the online schedule and the AAAI-20 Poster/Demo Program Guide.

**Breakfast with Champions: A Women's Mentoring Event**

**Monday, February 10**
7:30 – 8:45 AM
Sutton South, 2nd floor

AAAI is holding the sixth annual women's mentoring event for women students and junior women professionals to meet with senior women in computer science and/or artificial intelligence. Pre-registration was required and admittance is by ticket only. Sponsored by Elsevier and AAAI.

**AAAI-20 Games Night**

Tuesday, February 11
8:00 – 10:00 PM
Sutton Center, 2nd floor

For details, please consult the online schedule.

**AAAI/SIGAI AI Job Fair**

Tuesday, February 11, 12:30 – 3:00 PM
Rhinelander Gallery, 2nd floor

1-Minute Company Presentations: 12:30 – 1:00 PM
Tabletop exhibits: 1:00 – 3:00 PM

The AAAI and ACM SIGAI AI Job Fair will provide an opportunity for a host of companies and institutions to highlight their current job opportunities. The short presentations will be followed by meet-and-greet sessions. Over 30 employers will be participating. Be sure to stop in during the lunch break. For a list of participating companies and a schedule of presentations, please see the online schedule and aaaijobfair.com.

For further information about student programs, please refer to the Diversity events on page 6.

**Sponsor and Exhibit Program**

Sunday – Tuesday, February 9 – 11
Rhinelander Gallery

The AAAI-20 sponsor and exhibit program provides an opportunity for AI-related companies and publishers to support the goals of AAAI and reach out to AI professionals. In some cases, sponsors have elected to exhibit at AAAI-20. AAAI wishes to thank all sponsors and exhibitors for their participation at AAAI-20!

**Exhibit Hours**

Sunday, February 9:
10:00 AM – 4:00 PM

Monday, February 10:
10:00 AM – 4:00 PM

Tuesday, February 11:
10:00 AM – 12:30 PM

Tuesday Job Fair only:
12:30 PM – 3:00 PM

**Sponsor / Job Fair**

**Artificial Intelligence Journal (AIJ)**

Artificial Intelligence Journal (AIJ) is one of the longest established and most respected journals in AI, and since it was founded in 1970, it has published many of the key papers in the field. The operation of the Editorial Board is supported financially through an arrangement with AIJ's publisher, Elsevier. The editorial board of Artificial Intelligence is now in the unique position of being able to make available substantial funds, of the order of EUR 240,000 per annum to support the promotion and dissemination of AI research.

**Exhibitor / Job Fair**

**AI Singapore**

www.asingapore.org/

AI Singapore (AISG) is a national AI programme launched by the National Research Foundation (NRF) to anchor deep national capabilities in Artificial Intelligence (AI) thereby creating social and economic impacts, grow the local talent, build an AI ecosystem, and put Singapore on the world map.

**Exhibitor**

**AITopics**

www.aитopics.org

AITopics is powered by AI technology from i2k Connect Inc., AITopics is an official publication of the AAAI. AITopics is the Internet’s Largest Collection of Information on Research, People, News, and Applications of AI

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Follow us on Twitter, Facebook and LinkedIn @ai_topics

**Exhibitor**

**Alexander von Humboldt Foundation**

www.humboldt-foundation.de/web/home.html

The Alexander von Humboldt Foundation promotes academic cooperation between excellent scientists and scholars from Germany, the US, and abroad, offering prestigious fellowships and research awards for all career stages. Among these fellowships is the AvH Professorship for Artificial Intelligence for top researchers in AI.

**Sponsor / Exhibitor**

**Alegion**

www.alexion.com

Alegion offloads from enterprise data science teams the preparation of training data for machine learning initiatives. Our offering operates at massive scale, combining a data and task management software platform with a nearly million-member global pool of trained data specialists. We assist data science teams throughout the AI lifecycle, delivering custom training datasets, providing human-scored model testing, and making available human-in-the-loop exception handling. We completely offload these activities, freeing data professionals to focus on their areas of specialization. We support machine learning projects broadly, with particular emphasis on Computer Vision, Natural Language Processing and Entity Resolution, in financial services, retail, defense, technology and manufacturing.

**Sponsor / Exhibitor / Job Fair**

**Amazon**

amazon.jobs/en/landing_pages/AAAI

We fundamentally believe that scientific innovation is essential to being the most customer-centric company in the world. It’s this ability to have an impact at scale that allows us to attract some of the brightest minds in artificial intelligence and related fields. Amazon’s machine learning teams are looking forward to meeting you at AAAI 2020. Come and visit us at the Amazon booth!

**Exhibitor**

**Appen**

www.appen.com

Appen collects and labels data used to build and continuously improve the world's most innovative artificial intelligence systems. With expertise in more than 180 languages, a global crowd of over 1 million skilled contractors, and the industry’s most advanced annotation platform, Appen works with leading companies and governments worldwide.

**Exhibitor / Job Fair**

**AppZen, Inc.**

www.appzen.com

Aimsoft develop Multimodal AI solutions. Multimodal AI combines multiple input sources (text, voice, image, numerical data, ...) and various intelligence algorithms into a single system to solve complicated problems. We will present various Multimodal AI solutions for smart document processing, billtone processing, stock prediction and Healthcare.

**Sponsor / Job Fair**

**Apple**

www.apple.com

We’re a diverse collection of people, reimagining what’s possible to help us do what we love in new ways. The people who work here have reinvented entire industries with the Mac, iPhone, iPad, and Apple Watch, and with services, including iTunes, the App Store, Apple Music, and Apple Pay. Employees in machine learning and AI are building amazing experiences into every Apple product, allowing millions to do what they never imagined. Because Apple fully integrates hardware and software across every device, these researchers and engineers collaborate
more effectively to improve the user experience while protecting user data. Come make an impact with the products you create and the research you publish.

**Exhibitor**

**Association for Computing Machinery**

**www.acm.org**

ACM is a global organisation which brings together computing educators, researchers, and professionals to inspire dialogue, share resources, and address the field’s challenges.

**Sponsor / Exhibitor / Job Fair**

**Beijing Baidu Netcom Science Technology Co., Ltd**

**www.baidu.com**

Baidu is the leading Chinese language Internet search provider and the largest Chinese website globally. Baidu aims to make the complicated world simpler through technology.

**Sponsor / Exhibitor / Job Fair**

**Bloomberg**

**www.bloomberg.com**

Bloomberg is building the world’s most trusted information network for financial professionals. Among our 6,000+ software engineers, Bloomberg employs 150+ data scientists and research engineers who employ machine learning and natural language processing to solve complex, real-world problems related to core document understanding, recommendation, and customer-facing systems.

**Exhibitor**

**Cambridge University Press**

**www.cambridge.org/academic**

Cambridge University Press is a not-for-profit publisher that dates from 1534. We are part of the University of Cambridge and our mission is to unlock people’s potential with the best learning and research solutions. Visit our stand to discuss publishing with us, browse our publications and get a 20% discount.

**Sponsor / Exhibitor / Job Fair**

**Dataminr**

**www.dataminr.com**

We are Dataminr. The Leading AI Platform for Real-Time Event and Risk Detection. Dataminr’s advanced AI platform detects the earliest signals of high-impact events and emerging risks, enabling enterprise and public sector clients around the globe to know critical information first, respond with confidence, and manage crises more effectively.

**Sponsor / Exhibitor / Job Fair**

**Elsevier Ltd.**

**www.elsevier.com**

Elsevier is a global information analytics business that helps scientists and clinicians to find new answers, reshape human knowledge, and tackle the most urgent human crises.

**Sponsor**

**Facebook**

**ai.facebook.com**

Facebook’s mission is to give people the power to build community and bring the world closer together. Our teams accelerate research breakthroughs across both existing and new learning paradigms to develop state-of-the-art AI that has a positive impact on people and society. We’re advancing artificial intelligence through fundamental and applied research in open collaboration with the community.

**Sponsor / Exhibitor / Job Fair**

**Google**

**ai.google**

Google’s mission is to organize the world’s information and make it universally accessible and useful, and we advance that mission every day in incredible new ways. Research across Google provides new ways of looking at old problems and helps transform how we all work and live, and we think the biggest impact comes when everyone in the world can access it. To that end, we use state-of-the-art computer science techniques to solve problems for our users, our customers and the world, making it easier for you to do things every day, whether it’s searching for photos of people you love, breaking down language barriers, or helping you get things done with your own personalized digital assistant.

**Sponsor / Exhibitor / Job Fair**

**IBM Research**

**research.ibm.com/labs/watson**

IBM Research has been exploring AI and machine learning for decades. Today, we’re advancing the field through our portfolio of research focused on Advancing, Scaling, and Trusting AI. We’re also collaborating with like-minded institutions and individuals to push the boundaries of AI faster — for the benefit of industry and society.

**Sponsor / Exhibitor**

**iMerit**

**www.imerit.net**

We structure unstructured data. iMerit provides high-volume data annotation services using our internal workforce of 2,500+ full-time, in-house, data technicians located domestically and abroad. We specialize in image/video/audio/text data (PHI, PII, HIPAA, FOUO, etc.) and have labeled over 150 million data points.

**Exhibitor**

**IOS Press**

**www.iospress.com**

IOS Press is headquartered in Amsterdam with satellite offices in the USA, Germany, India, and China and serves the information needs of scientific and medical communities worldwide. IOS Press publishes more than 80 international peer-reviewed journals and about 75 book titles each year on subjects ranging from computer science, AI, and engineering to medicine, neuroscience, and cancer research.

**Sponsor / Exhibitor**

**Jane Street**

**janestreet.com**

Jane Street is a quantitative trading firm that uses innovative technology, a scientific approach, and a deep understanding of markets to guide our business. We are a global liquidity provider and market maker, operating around the clock and around the globe, out of offices in New York, London and Hong Kong.

**Exhibitor**

**John Wiley & Sons**

**wileyonlinelibrary.com**

Wiley publishes leading research, empowering researchers, learners, universities, and corporations to achieve their goals in an ever-changing world. With open research, we will build a future where answers and evidence are more accessible, opening up the discovery process to the whole world.

**Sponsor / Exhibitor / Job Fair**

**Microsoft**

**www.microsoft.com/research**

Microsoft Research is where leading scientists and engineers have the freedom and support to tackle complex problems that propel innovation and improve lives. Come by our booth to learn more about our research and open opportunities with Microsoft. aka.ms/aaai-2019.

**Exhibitor**

**Applied Computational Intelligence Laboratory, Missouri University of Science and Technology**

**acil.mst.edu**

The Applied Computational Intelligence Laboratory performs research at the interface of unsupervised and reinforcement learning. Supported by the DARPA L2M program, Night Vision Labs, and the Leonard Wood Institute, among others,
the ACIL is a diverse (in every sense,) multidisciplinary group.

Exhibitor
The MIT Press
mitpress.mit.edu
Established in 1962, the MIT Press is one of the largest and most distinguished university presses in the world and a leading publisher of books and journals at the intersection of science, technology, art, social science, and design.

Exhibitor
Morgan & Claypool Publishers
www.morganclaypoolpublishers.com
Morgan & Claypool publishes the Synthesis Lectures on Artificial Intelligence and Machine Learning edited by Ronald Brachman, Francesca Rossi, and Peter Stone. Synthesis lectures are 75- to 200-page electronic and print books presenting key topics written by prominent contributors for an audience of students, researchers, and developers.

Exhibitor
NHB Elite Health
elitehealth.com
We are on a mission to create a world where you can achieve and sustain optimal health in the advancing field of AI.

Sponsor / Exhibitor / Job Fair
NLMatics
www.nlmatics.com
NLMatics is an enterprise Natural Language Processing (NLP) platform designed for decision makers to transform vast quantities of unstructured text into insightful analytics. NLMatics’ proprietary semantic discovery engine uses a combination of unsupervised learning, active learning and robust models pre-trained with a variety of language comprehension tasks to eliminate time consuming training with customer data.

Sponsor / Exhibitor
Openstream
www.openstream.com
Provider of leading virtual assistant platform employing open standards based multimodal conversational AI for unparalleled user experience and intelligent process automation across multiple channels for financial, insurance, healthcare, communications, retail and life-sciences industry solutions with documented productivity enhancement and RoI.

Sponsor / Exhibitor / Job Fair
Sony
www.sony.net/SonyInfo/sony_ai
Sony is a major electronics, entertainment and finance conglomerate. Artificial Intelligence and Machine Learning are one of the key drivers in Sony’s business success and the company has been at the forefront of developing Machine Learning technologies for finance, manufacturing, music and entertainment among many others.

Exhibitor
Springer
springer.com
Springer is a leading global scientific and technical portfolio, providing researchers in academia, scientific institutions and corporate R&D departments with quality content through innovative information, products and services.

Sponsor / Exhibitor / Job Fair
Superb Al
www.superb-ai.com
Superb AI, Inc. provides a new generation machine learning data platform powering international 30+ AI enterprises to build better AI in less time. ‘Superb AI Suite’, an enterprise software-as-a-service (SaaS) platform is built to manipulate, manage and understand machine learning datasets and to accelerate advanced AI application.

Sponsor / Exhibitor / Job Fair
TheTake
thetake.ai
At TheTake, we are dedicated to giving TV viewers immediate access to the products they discover in the content they love. We use proprietary deep learning technology to extract contextual product metadata at scale to power enhanced shoppable experiences on viewing platforms with partners like LG, WarnerMedia, and NBCUniversal.

Sponsor / Exhibitor
Tongdun Technology
www.tongdun.cn
Tongdun Technology is a professional third-party intelligent risk management and decision-making service provider headquartered in Hangzhou, Zhejiang. By integrating artificial intelligence into business scenarios, Tongdun Technology offers solutions in intelligent user analysis, intelligent risk management, intelligent anti-fraud and intelligent operation to clients from various industries including financial industry, internet business, government bodies.

Sponsor / Exhibitor
Two Sigma
www.twosigma.com
Two Sigma uses data science and technology to discover value in markets worldwide. We’re looking for people who see beauty in data and the possibilities it reveals. Modelers who see connections and patterns in unexpected places. Engineers who build tools that channel massive amounts of data into insights. And people across multiple disciplines to support our growth and position at the forefront of investment management, insurance, securities, private equity, and venture capital.

Sponsor / Exhibitor / Job Fair
United Technologies Research Center
www.utrc.utc.com
UTRC conducts research in various AI areas, including autonomy and human-machine interaction, computer vision and deep learning for revolutionary aircraft systems. Our diverse technical staff (76% PhD) collaborates with our business units, universities and national laboratories on impactful scientific advances in AI that culminate in novel aerospace products.

Sponsor / Exhibitor
Center for Artificial Intelligence Research, University of Tsukuba
air.tsukuba.ac.jp/en
Based in Tsukuba Science City, 60 km from Tokyo, C-AIR is a multidisciplinary research hub with a mission to develop and promote human-centered AI technologies. We collaborate with many research centers of the University of Tsukuba as well as such national research institutes as NIMS, JAXA, and RIKEN.

Sponsor / Exhibitor / Job Fair
USC/ISI
www.isi.edu/home
Part of the University of Southern California’s highly ranked Viterbi School of Engineering, ISI is one of the nation’s largest, most successful university-affiliated computer research institutes. USC/ISI is home to 400 research scientists, engineers, graduate and undergraduate students, and staff. Half our researchers hold Ph.D.s and 40 are USC faculty.

Sponsor / Exhibitor
Verisk Analytics
www.verisk.com
Verisk Analytics is a leading data analytics provider in insurance, financial services, energy and specialized markets serving customers in over 30 countries. VeriskAI conducts R&D for building human-machine collaborative systems and workflows for extraction of knowledge and information from data, capable of closed-loop, interpretable reasoning and continuous learning.

Sponsor / Exhibitor / Job Fair
Visa Research
research.visa.com
Visa Research is transforming commerce by accelerating innovation and focusing on the scientific foundations of existing, emerging and future commerce related technologies across broad
time horizons. Our research focus areas are Artificial Intelligence, Security and Future of Payments.

Job Fair

Tuesday, February 11, 12:30 – 3:00 pm, Rhinelander Gallery, 2nd floor

In addition to those existing sponsors and exhibitors listed above (where indicated), the Job Fair will include the following companies:
- Audatic GMbH
- Beijing Century Tai Education Technology Ltd.
- Charles River Analytics
- Hewlett Packard
- Kitware
- Mayo Clinic
- Point72 Asset Management
- Raytheon BBN Technologies
- SigOpt

Registration

Registration is located on the 2nd Floor Promenade. If you have already registered, please go directly to the preregistration area. Registration is divided into the following sections: AAAI-20 main conference registration, AIES-20 only registration, and exhibitor registration. All other registrants, such as workshop only or visitors, should proceed to the onsite registration desk for their badge. If you have not yet registered, wish to make a change to your registration, or have a balance due, please proceed to the onsite registration area. Registration hours are:
- Friday, February 7: 7:30 AM – 5:00 PM
- Saturday, February 8: 7:30 AM – 5:00 PM
- Sunday, February 9: 7:30 AM – 5:00 PM
- Monday, February 10: 8:00 AM – 5:00 PM
- Tuesday, February 11: 8:30 AM – 5:00 PM
- Wednesday, February 12: 8:30 AM – 2:00 PM

AAAI attendees are required to register via the online system at aaaiconf.event.com/AAAI-20 prior to arrival or at online kiosk in onsite registration. All onsite registrations must be accompanied by payment via credit card, check or cash. All attendees must pick up their registration packets/badges for admittance to programs.

Business Center

A business center is available at the New York Hilton Midtown. The center provides a photo copying service, printing, fax, and express mail.

Career Information

A general information table for job opportunities in the artificial intelligence industry will be made available in the registration area. Attendees are welcome to post job descriptions of openings at their company or institution. Please also visit the AI Job Fair for additional career information.

Family Friendly Initiative

Childcare

Concourse B, Concourse Level

AAAI has contracted with KiddieCorp to provide onsite childcare during the AAAI-20 conference. The program is designed for children ages 6 months through 12 years old. Snacks and water will be provided; meals must to be supplied by parents. For complete details on the program and a registration form, visit www.jotform.com/KiddieCorp/aaakids

Preregistration required. For onsite availability, please contact KiddieCorp directly.

Family Room

Concourse H, Concourse Level

AAAI has arranged for a room for young family needs relaxation between sessions. We ask that you be respectful of others’ privacy, as this room may be used by nursing mothers. The room locks from the inside when being used privately.

Children at Social Events

AAAI welcomes young children (under 12) at all AAAI social events, such as the reception or poster / demo receptions, for no additional charge. If your child would like a souvenir of attendance at the conference, please come by registration for a badge!

Guidebook App and Online Schedule

The full list of all AAAI papers for all programs is available in the online schedule and via the Guidebook app (guidebook.com/g/aaai20); short name: aaai20, no password required. No hard copies are available.

List of Attendees

A list of preregistered attendees of the conference will be available for review at the AAAI onsite registration desk. Attendee lists will not be distributed.

Printed Materials

Display tables for the distribution of promotional and informational materials of interest to conference attendees will be located in the registration area.

Proceedings/Technical Reports

AAAI proceedings will be available after the conference in electronic format only via the AAAI Digital Library. Preliminary PDFs of all papers are available via the online AAAI-20 schedule (Guidebook). The preliminary PDFs will be removed once the final papers are placed in the digital library. Links to individual guidebook papers may not be made.

Sticker / Ribbon Table

As part of AAAI’s Diversity and Inclusion program, a selection of stickers and ribbons are available at a table in the registration area. Attendees may optionally select gender identification stickers or other specialty ribbons. Social networking event stickers are also available at this table. See Student Activities on page 11-14 for more information.

Volunteer Station

The volunteer station will be located in the onsite registration area. All volunteers are required to sign in prior to their shifts, and sign out when they finish.

New York City Information

NYCgo: (212) 484-1200. For more information,
including restaurant suggestions, activities and additional information about the area please visit nycgo.com

**Hotel Parking**

Valet parking is available for $75 per night ($80 per night for an SUV). Hotel overnight self-parking is not available.

**Hotel Restaurants**

**Bridges Bar**
Specialty Sandwiches
5:30 PM-2:00 PM

**Herb N’ Kitchen**
Grab & go, 6:00 AM-1:00 AM

**Nearby Grab & Go**

Angela’s Sandwich Shop
1428 6th Avenue (7-minute walk)
Specialty Sandwiches
6:00 AM-12:00 AM

Melt Shop
135 W 50th Street (6-minute walk)
Sandwiches
11:00 AM-10:00 PM

**Coffee Shops**

AAAI-20 will serve coffee at the mid-morning and afternoon breaks. For early morning coffee, please visit one of the following locations:

**Herb N’ Kitchen**
New York Hilton Midtown
6:00 AM – 1:00 AM

Joe & the Juice
350 6th Avenue
(3-minute walk)

Zibetto Espresso Bar
1221 6th Avenue

**Groceries/Sundries**

Morton Williams
140 West 57th Street

**Pharmacies**

The following pharmacies are located within walking distance of the hotel:

Duane Reade, 51 W31st Street
CVS, 241 W 57th Street and 630 Lexington Avenue
Rite Aid, 301 W 50th Street
Walgreens, 1471 Broadway
Windsor, 1419 6th Avenue

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**Disclaimer**

In offering the New York Hilton Midtown Hotel, Freeman, PSAV, and all other service providers (hereinafter referred to as “Supplier(s)” for the AAAI Conference on Artificial Intelligence), AAAI acts only in the capacity of agent for the Suppliers that are the providers of the service. Because AAAI has no control over the personnel, equipment or operations of providers of accommodations or other services included as part of the AAAI-20 program, AAAI assumes no responsibility for and will not be liable for any personal delay, inconveniences or other damage suffered by conference participants which may arise by reason of (1) any wrongful or negligent acts or omissions on the part of any Supplier or its employees, (2) any defect in or failure of any vehicle, equipment or instrumentality owned, operated or otherwise used by any Supplier, or (3) any wrongful or negligent acts or omissions on the part of any other party not under the control, direct or otherwise, of AAAI.

**AAAI-20 Technical Session Overview**

Included on the following pages is an overview of the AAAI, IAAI, and EAAI Technical Sessions. Please consult the Guidebook app and the Technical Program Schedule PDF at aaai.org/Conferences/AAAI-20/ for detailed information.

**Talk Lengths**

AAAI and AISITalks = 20 minutes
AAAI Spotlight Talks = 2 minutes
Senior Member Talks = 15 minutes
Sister Conference Talks = 20 minutes
IAAI Deployed Talks = 20 minutes
IAAI Emerging Talks = 15 minutes
EAAI Main and AI for Education Tracks = 20 minutes
EAAI Poster Previews = 5 minutes
EAAI Model AI Assignments = 15 minutes
EAAI Blue Sky Talks = 5 minutes

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**Saturday, February 8**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
</tr>
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<tbody>
<tr>
<td>8:55 - 9:05 AM</td>
<td>EAAI Welcome (Nate Drobinsky and Lisa Torrey)</td>
<td>Bryant</td>
</tr>
<tr>
<td>9:05 - 9:55 AM</td>
<td>EAAI-20 Outstanding Educator Award Lecture: Marie desJardins</td>
<td>Bryant</td>
</tr>
<tr>
<td>9:55 - 10:30 AM</td>
<td>EAAI-20 Blue Sky Ideas</td>
<td>Bryant</td>
</tr>
<tr>
<td>10:50 AM - 11:30 AM</td>
<td>EAAI-20 Main Track</td>
<td>Bryant</td>
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<tr>
<td>11:35 AM - 12:30 PM</td>
<td>EAAI-20 AI for Education Track</td>
<td>Bryant</td>
</tr>
<tr>
<td>12:00 - 1:00 PM</td>
<td>EAAI-20 Main Track</td>
<td>Bryant</td>
</tr>
<tr>
<td>1:00 - 3:30 PM</td>
<td>EAAI-20 Model AI Assignments</td>
<td>Bryant</td>
</tr>
<tr>
<td>3:50 - 4:35 PM</td>
<td>EAAI-20 Model AI Assignments</td>
<td>Bryant</td>
</tr>
<tr>
<td>5:00 - 7:30 PM</td>
<td>EAAI-20 Opening Reception</td>
<td>Grand Ballroom</td>
</tr>
</tbody>
</table>
### Sunday, February 9

#### 8:00 - 8:30 AM
**AAAI Welcome and Opening Remarks, AAAI Organizational Awards/Honors**
Grand Ballroom

#### 8:30 - 9:20 AM
**AAAI Presidential Address: Yolanda Gil**
Grand Ballroom

#### 9:30 - 10:45 AM
- **Tech Session 1: NLP: Entity Recognition and Linking**
  - Trianon
- **Tech Session 2: Application: Document Analysis and Understanding**
  - Beekman
- **Tech Session 3: NLP: Machine Translation**
  - Sutton North
- **IAAI-20: AI in Health**
  - Sutton Center
- **AI for Social Impact Special Track 1**
  - Sutton South
- **2020 Classic Paper Award Talk: Ulrich Junker**
  - Regent
- **Tech Session 4: Vision: 3D**
  - Gramercy
- **Tech Session 5: ML: Online Learning**
  - Murray Hill
- **Tech Session 6: Vision: Language**
  - Nassau
- **Tech Session 7: ML: Interpretability**
  - Concours A
- **Tech Session 8: Planning and Scheduling**
  - Gibson
- **Tech Session 9: Constraint Satisfaction and Optimization**
  - Clinton
- **Tech Session 10: Logic and KR: Inference and Reasoning**
  - Madison
- **Tech Session 11: Social Choice and Voting**
  - Morgan

#### 9:30 - 10:45 AM
**IAAI-20 Welcome, Invited Talk (Ben Shapiro and Abigail Zimmermann-Niefield), and Poster Previews**
Bryant

#### 11:15 - 12:30 AM
- **Tech Session 1: NLP: Dialogue**
  - Trianon
- **Tech Session 2: Application: Web Search, Ranking and Recommendation**
  - Beekman
- **Tech Session 3: NLP: Learning for NLP**
  - Sutton North
- **IAAI-20: AI in Customer Support and Marketing**
  - Sutton Center
- **Tech Session 4: AI for Social Impact Special Track 2**
  - Sutton South
- **IAAI-20 Senior Member Track Session 1**
  - Regent
- **Tech Session 5: ML: Neural Nets Theory, Models and Algorithms**
  - Murray Hill
- **Tech Session 6: Vision: 3D**
  - Nassau
- **Tech Session 7: ML: Supervised Learning**
  - Concours A
- **Tech Session 8: Planning**
  - Gibson
- **Tech Session 9: Constraint Satisfaction and Optimization**
  - Clinton
- **Tech Session 10: Knowledge Representation and Reasoning**
  - Madison
- **Tech Session 11: Fair Allocation**
  - Morgan

#### 11:30 - 1:30 PM
**IAAI-20: AI for Education Track and Model AI Assignments**
Bryant

#### 1:30 - 2:30 PM
- **Tech Session 1: NLP: Relational Learning**
  - Trianon
- **Tech Session 2: Application: Science**
  - Beekman
- **Tech Session 3: NLP: Speech, Syntax and Semantics**
  - Sutton North
- **Tech Session 4: AI in Visual Inspection and Detection**
  - Sutton Center
- **AI for Social Impact Special Track 3**
  - Sutton South
- **IAAI-20 Senior Member Track Session 2**
  - Regent
- **Tech Session 4: Vision: Object Detection**
  - Gramercy
- **Tech Session 5: ML: Casual Learning and Bayes Nets**
  - Murray Hill
- **Tech Session 6: Vision: Language**
  - Nassau
- **Tech Session 7: ML: Unsupervised and Semi-supervised Learning, Clustering**
  - Concours A
- **Tech Session 8: Combinatorial Optimization**
  - Gibson
- **Tech Session 9: Satisfiability**
  - Clinton
- **Tech Session 10: Knowledge Representation and Reasoning**
  - Madison
- **Tech Session 11: Social Choice and Voting**
  - Morgan

#### 2:45 - 3:15 PM
**IAAI-20: Main Track and Panel**
Bryant

#### 3:45 - 5:15 PM
- **Tech Session 1: NLP: Semantics and Summarization**
  - Trianon
- **Tech Session 2: Application: Financial Data, Medical Imaging and Health**
  - Beekman
- **Tech Session 3: NLP: Machine Comprehension and Q&A**
  - Sutton North
- **IAAI-20: AI in Trade and Finance**
  - Sutton Center
- **AI for Social Impact Special Track 4**
  - Sutton South
- **Tech Session 4: Vision: Video**
  - Regent
- **Tech Session 5: Vision: Face Recognition, Modeling**
  - Gramercy
- **Tech Session 6: ML: Fairness and Privacy, Learning Theory**
  - Murray Hill
- **Tech Session 7: Vision: Weak Supervision, Adaptation, Transfer Learning**
  - Nassau
- **Tech Session 8: ML: Probabilistic Logic and Probabilistic Methods**
  - Concours A
- **Tech Session 9: Heuristic Search and Optimization**
  - Gibson
- **Tech Session 10: Humans and AI**
  - Clinton
- **Tech Session 11: Robotics and Planning**
  - Madison
- **Tech Session 12: Game Theory**
  - Morgan

#### 3:30 - 4:45 PM
**IAAI-20: Model AI Assignments, Research Challenge Announcement, and EAAI Community Meeting**
Bryant

#### 5:20 - 7:20 PM
**IAAI-20 Turing Award Winner Event: Yoshua Bengio, Geoffrey E. Hinton, Yann LeCun**
Grand Ballroom (Overflow: Trianon Ballroom)

#### 7:30 - 9:30 PM
**IAAI-20 Poster / Demo Session 1**
Americas Hall III

#### 7:30 - 10:00 PM
**IAAI Fellows Recognition Dinner**
Herb N’ Kitchen Runway and PDR2
<table>
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<tr>
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<tr>
<td>7:30 - 8:45 AM</td>
<td>Women's Mentoring Breakfast</td>
<td>Beekman</td>
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<tr>
<td>8:30 - 9:20 AM</td>
<td>AAAI-20 Invited Talk: Aude Billard</td>
<td>Grand Ballroom</td>
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<tr>
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<td>AI for Social Impact Special Track 5</td>
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<td>Tech Session 5: ML: Low-rank Factorization, Matrix Completion</td>
<td>Murray Hill</td>
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<td>Sister Conference Track 1</td>
<td>Nassau</td>
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<td>Tech Session 6: ML: Optimization, Neural Architecture Search, and Others</td>
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<tr>
<td>11:15 AM - 12:30 AM</td>
<td>Tech Session 2: Application: Human Modeling</td>
<td>Beekman</td>
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<tr>
<td>11:15 AM - 12:30 AM</td>
<td>Tech Session 3: NLP: Machine Translation</td>
<td>Sutton North</td>
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<tr>
<td>11:15 AM - 12:15 AM</td>
<td>AAAI-20 Invited Talk: David Cox</td>
<td>Grand Ballroom</td>
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<tr>
<td>11:15 AM - 12:35 AM</td>
<td>AI for Social Impact Special Track 6</td>
<td>Sutton South</td>
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<tr>
<td>11:15 AM - 12:30 AM</td>
<td>Senior Member Track 4</td>
<td>Regent</td>
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<tr>
<td>11:15 AM - 12:30 AM</td>
<td>Tech Session 4: Vision: 3D</td>
<td>Gramercy</td>
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<tr>
<td>11:15 AM - 12:30 AM</td>
<td>Tech Session 5: ML: Neural Nets Theory, Models and Algorithms</td>
<td>Murray Hill</td>
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<tr>
<td>11:15 AM - 12:35 AM</td>
<td>Sister Conference Track 2</td>
<td>Nassau</td>
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<tr>
<td>11:15 AM - 12:30 AM</td>
<td>Tech Session 6: ML: Unsupervised and Semi-supervised Learning, Clustering</td>
<td>Concourse A</td>
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<tr>
<td>11:15 AM - 12:30 AM</td>
<td>Tech Session 7: Planning</td>
<td>Gibson</td>
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<td>11:15 AM - 12:30 AM</td>
<td>Tech Session 8: Constraint Satisfaction and Optimization</td>
<td>Clinton</td>
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<td>11:15 AM - 12:30 AM</td>
<td>Tech Session 9: Logic and KR: Inference and Reasoning</td>
<td>Madison</td>
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<td>11:15 AM - 12:30 AM</td>
<td>Tech Session 10: Fair Allocation</td>
<td>Morgan</td>
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<tr>
<td>2:00 - 3:15 PM</td>
<td>Tech Session 1: NLP: Dialogue</td>
<td>Trianon</td>
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<tr>
<td>2:00 - 3:15 PM</td>
<td>Tech Session 2: Application: Web Search, Ranking and Recommendation</td>
<td>Beekman</td>
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<tr>
<td>2:00 - 3:15 PM</td>
<td>Tech Session 3: NLP: Machine Translation / Vision: Language + Vision</td>
<td>Sutton North</td>
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<tr>
<td>2:00 - 3:10 PM</td>
<td>AAAI-20: AI for Recommendation Engines</td>
<td>Sutton Center</td>
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<tr>
<td>2:00 - 3:05 PM</td>
<td>AI for Social Impact Special Track 7</td>
<td>Sutton South</td>
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<tr>
<td>2:00 - 3:15 PM</td>
<td>Tech Session 4: ML: RL and Mulitagent RL</td>
<td>Regent</td>
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<tr>
<td>2:00 - 3:15 PM</td>
<td>Tech Session 5: Vision: Applications</td>
<td>Gramercy</td>
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<tr>
<td>2:00 - 3:15 PM</td>
<td>Tech Session 6: Vision: Image Processing, Imaging and Segmentation</td>
<td>Murray Hill</td>
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<tr>
<td>2:00 - 3:20 PM</td>
<td>Sister Conference Track 3</td>
<td>Nassau</td>
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<tr>
<td>2:00 - 3:15 PM</td>
<td>Tech Session 7: ML: Unsupervised and Semi-supervised Learning, Clustering</td>
<td>Concourse A</td>
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<tr>
<td>2:00 - 3:15 PM</td>
<td>Tech Session 8: Planning: Learning and Uncertainty</td>
<td>Gibson</td>
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<td>2:00 - 3:15 PM</td>
<td>Tech Session 9: Constraint Satisfaction and Optimization</td>
<td>Clinton</td>
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<td>2:00 - 3:15 PM</td>
<td>Tech Session 10: Knowledge Representation and Reasoning</td>
<td>Madison</td>
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<tr>
<td>2:00 - 3:15 PM</td>
<td>Tech Session 11: Game Theory</td>
<td>Morgan</td>
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<td>2:00 - 3:15 PM</td>
<td>Tech Session 12: Mulitagent Systems</td>
<td>Bryant</td>
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<tr>
<td>3:45 - 5:15 PM</td>
<td>Tech Session 1: NLP: Text Classification</td>
<td>Trianon</td>
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<tr>
<td>3:45 - 5:15 PM</td>
<td>Tech Session 2: Application: Social and Information Networks</td>
<td>Beekman</td>
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<tr>
<td>3:45 - 5:15 PM</td>
<td>Tech Session 3: NLP: Information Extraction, Retrieval and Text Mining</td>
<td>Sutton North</td>
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<tr>
<td>3:45 - 5:05 PM</td>
<td>AAAI-20: AI in Utilities</td>
<td>Sutton Center</td>
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<td>3:45 - 5:15 PM</td>
<td>AI for Social Impact Special Track 8</td>
<td>Sutton South</td>
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<tr>
<td>3:45 - 5:15 PM</td>
<td>Tech Session 5: Vision: Deep Learning Methods</td>
<td>Gramercy</td>
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<tr>
<td>3:45 - 5:15 PM</td>
<td>Tech Session 6: ML: Domain Adaptation, Adversarial Learning, Transfer Learning, Semi-Supervised Learning</td>
<td>Murray Hill</td>
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<tr>
<td>3:45 - 5:05 PM</td>
<td>Sister Conference Track 4</td>
<td>Nassau</td>
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<tr>
<td>3:45 - 5:15 PM</td>
<td>Tech Session 7: ML: Adversarial Learning</td>
<td>Concourse A</td>
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<tr>
<td>3:45 - 5:15 PM</td>
<td>Tech Session 8: Search</td>
<td>Gibson</td>
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<tr>
<td>3:45 - 5:15 PM</td>
<td>Tech Session 9: Social Networks, Influence, and Homophily</td>
<td>Clinton</td>
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<td>3:45 - 5:15 PM</td>
<td>Tech Session 10: Reasoning under Uncertainty</td>
<td>Madison</td>
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<td>3:45 - 5:15 PM</td>
<td>Tech Session 11: Fair Allocation</td>
<td>Morgan</td>
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<td>3:45 - 5:15 PM</td>
<td>Tech Session 12: Mulitagent Systems</td>
<td>Bryant</td>
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<tr>
<td>6:20 - 6:10 PM</td>
<td>AAAI-20 Engelmore Memorial Award Lecture: Henry Kautz</td>
<td>Grand Ballroom</td>
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<tr>
<td>6:15 - 7:15 PM</td>
<td>AAAI-20 AI Debate</td>
<td>Grand Ballroom</td>
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<tr>
<td>7:20 - 9:20 PM</td>
<td>AAAI-20 Poster / Demo Session 2</td>
<td>Americas Hall III</td>
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<tr>
<td>8:00 - 8:30 AM</td>
<td>AAAI-20 Conference Awards: Vincent Conitzer and Fei Sha</td>
<td>Grand Ballroom</td>
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<td>8:30 - 9:30 AM</td>
<td>AAAI-20 Joint Invited Talk: Down Song</td>
<td>Grand Ballroom</td>
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<tr>
<td>9:30 - 10:45 AM</td>
<td>Tech Session 1: Application: Health, Medicine and Wellbeing</td>
<td>Beekman</td>
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<tr>
<td>9:30 - 10:45 AM</td>
<td>Tech Session 2: NLP: Machine Comprehension and Q&amp;A</td>
<td>Sutton North</td>
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<tr>
<td>10:45 - 11:00 AM</td>
<td>Tech Session 3: NLP: Dialogue</td>
<td>Sutton South</td>
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<tr>
<td>9:30 - 10:45 AM</td>
<td>Tech Session 4: ML: RL and Multiagent RL</td>
<td>Regent</td>
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<td>9:30 - 10:45 AM</td>
<td>Tech Session 5: Vision: Image Retrieval, Ranking, Recognition</td>
<td>Gramercy</td>
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<td>9:30 - 10:45 AM</td>
<td>Tech Session 6: ML: Transfer Learning</td>
<td>Murray Hill</td>
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<tr>
<td>9:30 - 10:45 AM</td>
<td>Tech Session 7: Vision: Weak Supervision, Adaptation, Transfer Learning</td>
<td>Nassau</td>
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<td>9:30 - 10:45 AM</td>
<td>Tech Session 8: ML: Supervised Learning</td>
<td>Concourse A</td>
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<td>9:30 - 10:45 AM</td>
<td>Tech Session 9: Planning</td>
<td>Gibson</td>
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<td>9:30 - 10:45 AM</td>
<td>Tech Session 10: Constraint Satisfaction and Optimization</td>
<td>Clinton</td>
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<td>9:30 - 10:45 AM</td>
<td>Tech Session 11: Knowledge Representation and Reasoning</td>
<td>Madison</td>
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<td>9:30 - 10:45 AM</td>
<td>Tech Session 12: Game Theory</td>
<td>Morgan</td>
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<tr>
<td>11:15 AM - 12:30 PM</td>
<td>Tech Session 1: Application: Climate/Weather, Environment, Time Series Analysis</td>
<td>Beekman</td>
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<tr>
<td>11:15 AM - 12:30 PM</td>
<td>Tech Session 2: NLP: Machine Comprehension and Q&amp;A</td>
<td>Sutton North</td>
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<tr>
<td>11:15 AM - 12:30 PM</td>
<td>Tech Session 3: NLP: Representation Learning</td>
<td>Sutton South</td>
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<tr>
<td>11:15 AM - 12:30 PM</td>
<td>Tech Session 4: ML: Neural Nets Theory, Models and Algorithms</td>
<td>Regent</td>
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<td>11:15 AM - 12:30 PM</td>
<td>Tech Session 5: Vision: Object Detection</td>
<td>Gramercy</td>
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<td>11:15 AM - 12:30 PM</td>
<td>Tech Session 6: ML: RL and Multiagent RL</td>
<td>Murray Hill</td>
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<tr>
<td>11:15 AM - 12:30 PM</td>
<td>Tech Session 7: Vision: Image and Video Understanding, Recognition and Retrieval</td>
<td>Nassau</td>
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<td>11:15 AM - 12:30 PM</td>
<td>Tech Session 8: ML: Unsupervised and Semi-supervised Learning, Clustering</td>
<td>Concourse A</td>
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<td>11:15 AM - 12:30 PM</td>
<td>Tech Session 9: Learning in Multiagent Systems and Game Theory</td>
<td>Gibson</td>
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<td>11:15 AM - 12:30 PM</td>
<td>Tech Session 10: Humans and AI</td>
<td>Clinton</td>
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<td>11:15 AM - 12:30 PM</td>
<td>Tech Session 11: Logic and KR: Inference and Reasoning</td>
<td>Madison</td>
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<td>11:15 AM - 12:30 PM</td>
<td>Tech Session 12: Mechanism Design and Fair Allocation</td>
<td>Morgan</td>
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<td>11:15 AM - 12:30 PM</td>
<td>Tech Session 13: Social Choice and Voting</td>
<td>Bryant</td>
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<td>12:30 - 1:00 PM</td>
<td>AI Job Fair</td>
<td>Rhinelander Gallery</td>
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<td>12:30 - 1:00 PM</td>
<td>Tech Session 1: Application: Data Mining, Network/Graph Modeling and Algorithms, Transportation</td>
<td>Beekman</td>
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<tr>
<td>12:30 - 1:00 PM</td>
<td>Tech Session 2: NLP: Representation Learning, Summarization</td>
<td>Sutton North</td>
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<tr>
<td>12:30 - 1:00 PM</td>
<td>Tech Session 3: NLP: Semantics and Summarization</td>
<td>Sutton South</td>
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<tr>
<td>2:00 - 2:30 PM</td>
<td>Tech Session 4: Vision: Weak Supervision, Adaptation, Active and Transfer Learning</td>
<td>Regent</td>
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<tr>
<td>2:00 - 2:30 PM</td>
<td>Tech Session 5: Vision: Human Pose and Motion Analysis, Detection, Modeling</td>
<td>Gramercy</td>
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<tr>
<td>2:00 - 2:30 PM</td>
<td>Tech Session 6: ML: Neural Nets Theory, Models and Algorithms</td>
<td>Murray Hill</td>
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<tr>
<td>2:00 - 2:30 PM</td>
<td>Tech Session 7: Vision: Language</td>
<td>Nassau</td>
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<td>2:00 - 2:30 PM</td>
<td>Tech Session 8: ML: Supervised Learning</td>
<td>Concourse A</td>
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<td>2:00 - 2:30 PM</td>
<td>Tech Session 9: Learning in Multiagent Systems and Game Theory</td>
<td>Gibson</td>
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<td>2:00 - 2:30 PM</td>
<td>Tech Session 10: Satisfiability</td>
<td>Clinton</td>
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<td>2:00 - 2:30 PM</td>
<td>Tech Session 11: Cognitive Modeling</td>
<td>Madison</td>
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<td>2:00 - 2:30 PM</td>
<td>Tech Session 12: Game Theory: Matching and Coalitions</td>
<td>Morgan</td>
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<td>2:00 - 2:30 PM</td>
<td>Tech Session 13: Mechanism Design</td>
<td>Bryant</td>
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<td>3:45 - 4:15 PM</td>
<td>AAAI-20 Joint Invited Talk: Susan Athey</td>
<td>Grand Ballroom</td>
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<tr>
<td>6:30 - 8:30 PM</td>
<td>AAAI-20 Poster / Demo: Session 3</td>
<td>Americas Hall III</td>
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<tr>
<td>8:00 - 10:00 PM</td>
<td>AAAI-20 Games Night</td>
<td>Room TBD</td>
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</tbody>
</table>
### Wednesday, February 12

**8:00 - 9:30 AM**  
**AAAI-20 Invited Talk: Stuart Russell**  
Grand Ballroom

**10:00 - 10:05 AM**  
**Al in Practice Opening Remarks: Evgeniy Gabrilovich and Ashish Jha**  
Grand Ballroom

**10:05 - 10:50 AM**  
**Al in Practice Plenary Talk: Vivian Lee**  
Grand Ballroom

**10:50 - 11:15 AM**  
**Al in Practice Invited Talk: Isaac Kohane**  
Grand Ballroom

**10:00 - 11:00 AM**  
**Tech Session 1: NLP: Discourse and Pragmatics**  
Trianon

**10:00 - 11:00 AM**  
**Tech Session 2: Application: Physical Science**  
Beekman

**10:00 - 11:00 AM**  
**Tech Session 3: NLP: Learning for NLP**  
Sutton North

**10:00 - 11:00 AM**  
**Tech Session 4: NLP: Syntax and Semantics**  
Sutton South

**10:00 - 11:00 AM**  
**Tech Session 5: Vision: Image Retrieval, Ranking, Recognition**  
Regent

**10:00 - 11:00 AM**  
**Tech Session 6: Vision: Synthesis and Generation**  
Gramercy

**10:00 - 11:00 AM**  
**Tech Session 7: ML: Probabilistic Methods**  
Murray Hill

**10:00 - 11:00 AM**  
**Tech Session 8: ML: Optimization**  
Nassau

**11:20 AM - 12:20 PM**  
**Al in Practice: Invited Panel**  
Moderator: Lisa Simpson; Panelists: Freddy Abnousi, Greg Corrado, Jim Weinstei

**11:30 AM - 12:30 PM**  
**Tech Session 1: NLP: Language Models**  
Trianon

**11:30 AM - 12:30 PM**  
**Tech Session 2: Application: Modeling of Human Decision Making**  
Beekman

**11:30 AM - 12:30 PM**  
**Tech Session 3: NLP: Information Extraction, Retrieval and Text Mining**  
Sutton North

**11:30 AM - 12:30 PM**  
**Tech Session 4: NLP: Semantics and Summarization**  
Sutton South

**11:30 AM - 12:30 PM**  
**Tech Session 5: Vision: Adversarial Learning**  
Regent

**11:30 AM - 12:30 PM**  
**Tech Session 6: Vision: Human Pose and Motion Analysis, Detection, Modeling**  
Gramercy

**11:30 AM - 12:30 PM**  
**Tech Session 7: ML: Probabilistic Methods**  
Murray Hill

**11:30 AM - 12:30 PM**  
**Tech Session 8: ML: Ranking, Recommendation**  
Nassau

**1:00 - 1:50 PM**  
**AAAI Community Meeting: Yolanda Del**  
Grand Ballroom

**2:00 - 2:25 PM**  
**Al in Practice Invited Talk: Honor Hsin**  
Grand Ballroom

**2:25 - 2:50 PM**  
**Al in Practice Invited Talk: Leo Celi**  
Grand Ballroom

**2:50 - 3:10 PM**  
**Al in Practice Invited Talk: John Brownstein**  
Grand Ballroom

**2:00 - 3:20 PM**  
**Tech Session 1: NLP: Machine Translation, Entity Recognition and Linking**  
Trianon

**2:00 - 3:20 PM**  
**Tech Session 2: Application: Transportation**  
Beekman

**2:00 - 3:20 PM**  
**Tech Session 3: NLP: Knowledge Graph**  
Sutton North

**2:00 - 3:20 PM**  
**Tech Session 4: NLP: Semantics and Summarization**  
Sutton South

**2:00 - 3:20 PM**  
**Tech Session 5: Vision: Tracking and Detection**  
Regent

**2:00 - 3:20 PM**  
**Tech Session 6: Vision: Action Recognition**  
Gramercy

**2:00 - 3:20 PM**  
**Tech Session 7: ML: RL and Multiagent RL**  
Murray Hill

**2:00 - 3:20 PM**  
**Tech Session 8: ML: Probabilistic Graphical Models and Probabilistic Methods**  
Nassau

**3:45 - 4:10 PM**  
**Al in Practice Invited Talk: Kira Radinsky**  
Grand Ballroom

**4:15 - 4:35 PM**  
**Al in Practice Invited Talk: Prem Ramaswami**  
Prem Ramaswami

**3:30 - 4:50 PM**  
**Tech Session 1: NLP: Generation**  
Trianon

**3:30 - 4:50 PM**  
**Tech Session 2: Application: Medical Imaging**  
Beekman

**3:30 - 4:50 PM**  
**Tech Session 3: NLP: Relational Learning**  
Sutton North

**3:30 - 4:50 PM**  
**Tech Session 4: NLP: Semantics and Summarization**  
Sutton South

**3:30 - 4:50 PM**  
**Tech Session 5: NLP: Machine Comprehension and Q&A**  
Regent

**3:30 - 4:50 PM**  
**Tech Session 6: Vision: Image Retrieval, Ranking, Recognition**  
Gramercy

**3:30 - 4:50 PM**  
**Tech Session 7: ML: RL and Multiagent RL**  
Murray Hill

**3:30 - 4:50 PM**  
**Tech Session 8: ML: Neural Nets Theory, Models and Algorithms**  
Nassau

**4:45 - 5:30 PM**  
**Al in Practice Plenary Talk: Anesh Chopra**  
Grand Ballroom

**5:45 - 6:45 PM**  
**Al in Practice Networking / Discussion**  
Trianon Ballroom

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### AAAI-20 Wifi Access

*Select: Artificial Intelligence*

*Password: AAAI2020*

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### Guidebook App

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