



Spring News from the Association for the Advancement of Artificial Intelligence

Congratulations to the 2021 AAAI Award Winners!

AAAI recently announced the recipients of its annual honors and awards during a special awards ceremony at AAAI-21, hosted by Yolanda Gil, AAAI Past President and Awards Committee Chair, and Bart Selman, AAAI President. AAAI congratulates all the honorees!

Inaugural 2021 AAAI Squirrel AI Award for Artificial Intelligence for the Benefit of Humanity

AAAI established the AAAI Squirrel AI Award for Artificial Intelligence for the Benefit of Humanity in 2020 to recognize positive impacts of artificial intelligence to protect, enhance, and improve human life in meaningful ways with long-lived effects. The award will be given annually at the AAAI conference and is accompanied by a prize of \$1,000,000. Financial support for the award is provided by Squirrel AI.

The inaugural award was given to Regina Barzilay (Massachusetts Institute of Technology), in recognition of her fundamental advances in AI for healthcare, being a proactive community builder and role model, and demonstrating significant impact in people's lives through cancer diagnosis, drug-resistant microbe antibiotics, and drug discovery. Barzilay presented an invited talk at AAAI-21, entitled "A Tale of Two Translations," describing her experience in developing and deploying machine learning methods

in two areas of healthcare: cancer diagnosis and drug design.

Regina Barzilay is a professor in the Department of Electrical Engineering and Computer Science and a member of the Computer Science and Artificial Intelligence Laboratory at the Massachusetts Institute of Technology. Her research interests are in natural language processing. Currently, Barzilay is focused on bringing the power of machine learning to oncology. In collaboration with physicians and her students, she is devising deep learning models that use imaging, free text, and structured data to identify trends that affect early diagnosis, treatment, and disease prevention. Prof. Barzilay is poised to play a leading role in creating new models that advance the capacity of computers to harness the power of human language data.

Barzilay is a recipient of various awards including the MacArthur Fellowship, NSF Career Award, the *MIT Technology Review* TR-35 Award, Microsoft Faculty Fellowship and several best paper awards in distinguished natural language processing conferences. In 2017, she received a MacArthur fellowship, an ACL fellowship and an AAAI fellowship. Barzilay received her MS and BS from Ben-Gurion University of the Negev. She received her PhD in computer science from Columbia University, and spent a year as a postdoc at Cornell University.

Carla Gomes Selected for 2021 Feigenbaum Prize

AAAI established the Feigenbaum Prize to recognize and encourage outstanding artificial intelligence research advances

that are made by using experimental methods of computer science. AAAI is pleased to announce that the 2021 recipient of the prize is Carla P. Gomes of Cornell University. Gomes is being honored for high-impact contributions to the field of artificial intelligence through innovations in constraint reasoning, optimization, the integration of reasoning and learning, and through founding the field of computational sustainability with impactful AI applications in ecology, species conservation, environmental sustainability, and materials discovery for clean energy.

Carla Gomes is the Ronald and Antonia Nielsen Professor of Computing and Information Science and the director of the Institute for Computational Sustainability at Cornell University. She received a PhD in computer science from the University of Edinburgh. Her research area is artificial intelligence with a focus on large-scale reasoning, optimization, and machine learning. Gomes has also been deeply immersed in establishing and nurturing the new field of computational sustainability. She is a Fellow of the Association for the Advancement of Artificial Intelligence (AAAI), a Fellow of the Association for Computing Machinery (ACM), and a Fellow of the American Association for the Advancement of Science (AAAS).

Charles Isbell Receives 2021 AAAI Distinguished Service Award

Each year AAAI recognizes an individual for extraordinary service to the AI community. The AAAI Awards Committee is pleased to announce that the

Congratulations to the 2021 AAAI Fellows!

Each year a small number of fellows are recognized for their unusual distinction in the profession and for their sustained contributions to the field for a decade or more. The 2021 Fellows were honored at a special virtual ceremony during AAAI-21. We hope to congratulate them in person at the next Fellows Dinner in Vancouver, Canada in 2022!

Michael Bowling (University of Alberta and DeepMind, Canada)

For significant contributions to game-playing theory and practice and to machine learning.

Ashok Goel (Georgia Institute of Technology, USA)

For significant contributions to research on cognitive systems, design, and education, and for distinguished leadership and teaching.

Malte Helmert (University of Basel, Switzerland)

For significant contributions to the theory and practice of automated planning and combinatorial search.

Jörg Hoffmann (Saarland University, Germany)

For significant contributions to AI planning and related areas, particularly in the design and analysis of heuristic functions and other search methods.

Ayanna Howard (Georgia Institute of Technology, USA)

For significant contributions to human-robot interaction and for improving access and equity through artificial intelligence technologies.

Odest Chadwicke Jenkins (University of Michigan, USA)

For significant contributions to the field of human-robot interaction and extensive service in broadening participation in artificial intelligence.

Hiroaki Kitano (Sony Computer Science Laboratories, Inc., Sony AI Inc. and Okinawa Institute of Science and Technology Graduate School, Japan)

For significant contributions and leadership in robotics, massively parallel AI, and the use of AI for scientific discovery and systems biology.

Rada Mihalcea (University of Michigan, USA)

For significant contributions to natural language processing and computational social science.

Antonio Torralba (Massachusetts Institute of Technology, USA)

For significant contributions to scene recognition, large-scale visual datasets, and transfer learning.

Holly Yanco (University of Massachusetts Lowell, USA)

For foundational contributions to the field of human-robot interaction and for exceptional leadership in education and broadening participation.

2021 recipient is Charles Isbell (Georgia Institute of Technology, USA), who was recognized for his significant contributions to the field of artificial intelligence and computing education through sustained service to AAAI and other core computing organizations and tirelessly working to increase access and diversity in AI and computing.

Charles Isbell received his bachelor's in information and computer science from the Georgia Institute of Technology, and his MS and PhD degrees from the Massachusetts Institute of Technology's AI Lab. Upon graduation, he worked at AT&T Labs-Research until 2002, when he returned to Georgia Tech to join the faculty as an assistant professor. He has served many roles since returning and is now The John P. Imlay Jr. Dean of the College of Computing.

Isbell's research interests are varied but the unifying theme of his work has been using machine learning to build autonomous agents who engage directly with humans. His work has been featured in the popular press, congressional testimony, and in several technical collections.

In parallel, Isbell has also pursued reform in computing education. He was a chief architect of Threads, Georgia Tech's structuring principle for computing curricula. He was also an architect for Georgia Tech's First-of-its-kind MOOC-supported MS in computer science. Both efforts have received international attention and been presented in the academic and popular press.

In all his roles, he has continued to focus on issues of broadening participation in computing and is the founding executive director for the Constellations Center for Equity in Computing. He is an AAAI Fellow and a Fellow of the ACM. Appropriately, his citation for ACM Fellow reads "for contributions to interactive machine learning; and for contributions to increasing access and diversity in computing."

2021 Robert S. Engelmores Memorial Lecture Award

Tuomas Sandholm of Carnegie Mellon University, Optimized Markets, Inc., Strategy Robot, Inc., and Strategic Machine, Inc. has been selected as the recipient of the 2021 Robert S. Engelmores Memorial Lecture Award, established in 2003 in honor of Dr. Robert S. Engelmores extraordinary service to

AAAI, *AI Magazine*, and the AI applications community, and his contributions to applied AI. Sandholm was specifically honored for outstanding research contributions in artificial intelligence, its application to electronic market places, the highly original use of AI in strategic multiplayer games, and the application of AI to optimize organ exchanges.

Sandholm delivered his award lecture at AAAI-21, entitled “What Can and Should Humans Contribute to Superhuman AIs?” A video of the talk is available at the AAAI-21 website.

Tuomas Sandholm is the Angel Jordan University Professor of Computer Science at Carnegie Mellon University and a serial entrepreneur. His research focuses on the convergence of artificial intelligence, economics, and operations research. He is codirector of CMU AI. He is the founder and director of the Electronic Marketplaces Laboratory.

In parallel with his academic career, he was the founder, chairman, first CEO, and CTO/chief scientist of CombineNet, Inc. from 1997 until its acquisition in 2010. During this period the company commercialized over 800 of the world’s largest-scale generalized combinatorial multiattribute auctions, with over \$60 billion in total spend and over \$6 billion in generated savings. He is the founder and CEO of Optimized Markets, Inc., which is bringing a new optimization-powered paradigm to advertising campaign sales, scheduling, and pricing in linear and nonlinear TV, display, streaming, and cross-media advertising.

Since 2010, his algorithms have been running the national kidney exchange for UNOS, where they make the kidney exchange transplant plan for 80 percent of U.S. transplant centers together each week. He also coinvented never-ending altruist-donor-initiated chains, which have become the main modality of kidney exchange worldwide and have led to around 10,000 life-saving transplants. He invented liver lobe and multiorgan exchanges, and the first liver-kidney swap took place in 2019.

He has developed the leading algorithms and pipelines for several general game classes. The team he leads is the multitime world champion in AI-vs-AI heads-up no-limit Texas hold’em, the main benchmark and decades-open challenge problem for application-independent algorithms for imperfect-information games. Their AI Libratus

became the first and only AI to beat top humans at that game. Then their AI Pluribus became the first and only AI to beat top humans at the multiplayer game. That is the first superhuman milestone in any game beyond two-player zero-sum games. He is the founder and CEO of Strategic Machine, Inc., which provides solutions for strategic reasoning in business and gaming applications. He is the founder and CEO of Strategy Robot, Inc., which focuses on defense, intelligence, and other government applications.

Among his honors are the Minsky Medal, Computers and Thought Award, inaugural ACM Autonomous Agents Research Award, CMU’s Allen Newell Award for Research Excellence, Sloan Fellowship, NSF Career Award, Carnegie Science Center Award for Excellence, Edelman Laureateship, and Goldman Sachs 100 Most Intriguing Entrepreneurs. He is a Fellow of the ACM, AAAI, and INFORMS. He holds an honorary doctorate from the University of Zurich.

AAAI/EAAI 2021 Outstanding Educator Award

The AAAI/EAAI Outstanding Educator was established in 2016 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. Examples might include innovating teaching methods, providing service to the AI education community, generating pedagogical resources, designing curricula, and educating students outside of higher education venues (or the general public) about AI.

AAAI is pleased to announce the 2021 award is being given to Michael Wooldridge (University of Oxford and Alan Turing Institute, London) for outstanding global leadership in AI education and public awareness, including publishing broadly adopted books and textbooks, establishing the European Agent Systems Summer School, and inspiring public dialogue on AI and multiagent systems.

Wooldridge presented an invited talk at EAAI-21, entitled “Talking to the Public about AI,” focusing on his experiences talking to a variety of nonspecialist audiences about artificial intelligence, what he learned about how the field is perceived, and his recommendations for how best to communicate excitement about

the progress we’ve made, where we are, and where we are going.

Michael Wooldridge is a professor of computer science and head of Department of Computer Science at the University of Oxford, and a program director for AI at the Alan Turing Institute. He is a Fellow of the ACM, the Association for the Advancement of AI (AAAI), and the European Association for AI (EurAI). From 2014-16, he was president of the European Association for AI, and from 2015-17 he was president of the International Joint Conference on AI (IJCAI). As well as more than 400 technical articles on AI, he has published two popular science introductions to the field: *The Ladybird Expert Guide to AI* (2018), and *The Road to Conscious Machines* (Pelican, 2020).

Classic Paper Award

The 2021 AAAI Classic Paper Award was given to the authors of the paper deemed most influential from the Twentieth National Conference on Artificial Intelligence, held in 2005 in Pittsburgh, Pennsylvania, USA. The 2021 recipients of the AAAI Classic Paper Award were announced at the AAAI-21 conference:

2021 Classic Paper Award

DL-Lite: Tractable Description Logics for Ontologies
Diego Calvanese, Giuseppe De Giacomo, Domenico Lembo, Maurizio Lenzerini, and Riccardo Rosati

The authors were honored for proposing basic knowledge representation languages with low complexity of reasoning that have had significant impact beyond AI into semantic foundations for the Web. Maurizio Lenzerini presented an accompanying video and poster during AAAI-21.

Diego Calvanese (professor at Free University of Bozen-Bolzano, Italy, and Umeå University, Sweden) is a Fellow of ACM and EurAI, and the ideator and a cofounder of Ontopic, a spinoff of the Free University of Bozen-Bolzano. His research spans both AI and databases and is focused on foundational and applied aspects related to managing data and knowledge.

Giuseppe De Giacomo (professor at University of Rome La Sapienza) is a Fellow of AAAI, ACM and EurAI, a cofounder of OBDA Systems, and the recipient of the ERC Advanced Grant

for the project WhiteMech: White-box Self Programming Mechanisms (2019-2024). His research is focused on theoretical, methodological and practical aspects in different areas of AI and computer science, most prominently knowledge representation.

Domenico Lembo (professor at University of Rome La Sapienza) is a cofounder of OBDA Systems and the vice-president of the RR steering committee. His research is focused on description logics, ontologies, semantic web and database theory.

Maurizio Lenzerini (professor at University of Rome La Sapienza) is a Fellow of AAAI, ACM and EurAI, and a cofounder of OBDA Systems. His research is focused on data management, conceptual modeling, knowledge representation and reasoning, and ontology engineering.

Riccardo Rosati (professor at University of Rome La Sapienza) is a Fellow of EurAI and a cofounder of OBDA Systems. His research focuses on theoretical and practical aspects in the areas of knowledge representation and reasoning, semantic technologies, and databases.

2019 AAAI/ACM SIGAI Dissertation Award

AAAI and ACM SIGAI recently established the Joint AAAI/ACM SIGAI Doctoral Dissertation Award to recognize and encourage superior research and writing by doctoral candidates in artificial intelligence. The award will be presented annually at the AAAI Conference on Artificial Intelligence. The first recipients of the 2019 awards were announced at AAAI-21.

2019 AAAI/ACM SIGAI Dissertation Award Winner

Jiajun Wu, Massachusetts Institute of Technology, USA for his work entitled "Learning to See the Physical World."

2019 AAAI/ACM SIGAI Dissertation Honorable Mention

Aishwarya Agrawal, Georgia Institute of Technology for her work entitled "Visual Question Answering and Beyond."

2019 AAAI/ACM SIGAI Dissertation Honorable Mention

Li Dong, University of Edinburgh for his work entitled "Learning Natural Language Interfaces with Neural Models."

Award winner Jiajun Wu submitted a video and presented a poster at AAAI-21.

AAAI-21 Conference Awards

AAAI-21 General Chair Qiang Yang, Program Cochairs Kevin Leyton-Brown and Mausam, and Associate Program Chairs Yan Liu and Gabriele Röger recognized the contributions of authors, program committee members, and other members of the community through a series of special honors.

NEW! 2021 AAAI New Faculty Highlights Program

This year, AAAI launched a new invited speaker program highlighting AI researchers who have just begun careers as new faculty members or the equivalent in industry. Applications were adjudicated by a committee consisting of the AAAI-21 chairs and a diverse group of AAAI Fellows. The following individuals were selected for this distinction. They submitted invited videos to the conference, which broadly survey the candidate's research to date, and will be invited to contribute an article to a corresponding series in *AI Magazine*.

Yonatan Belinkov, Technion

Pascal Bercher, Australian National University

Noam Brown, Facebook AI Research

Eunsol Choi, University of Texas, Austin

Simon S. Du, University of Washington

Chelsea Finn, Stanford University

Jakob Foerster, Facebook AI Research/ University of Toronto/Vector Institute

Animesh Garg, University of Toronto

Hoda Heidari, Carnegie Mellon University

Kokil Jaidka, National University of Singapore

Dinesh Jayaraman, University of Pennsylvania

Nadin Kokciyan, University of Edinburgh

Jundong Li, University of Virginia

Hang Ma, Simon Fraser University

Lili Mou, University of Alberta

Ju Sun, University of Minnesota, Twin Cities

Jingjing Xu, ByteDance AI Lab

Diya Yang, Georgia Institute of Technology

AAAI-21 Program Committee Awards

The following members of the AAAI-21 Program Committee were recognized for their distinguished service on the committee. These individuals went above and beyond the expectations for the role, showing exceptional judgment, clarity, knowledgeability, and leadership in reaching a consensus decision while serving on the committee.

Outstanding Senior Program Committee Members

Craig Boutilier (Google Research, USA)

Tathagata Chakraborti (IBM Research, USA)

Dan Cosley (Cornell University, USA)

Thomas Keller (University of Basel, Switzerland)

Nicholas Mattei (Tulane University, USA)

Florian Pommerening (University of Basel, Switzerland)

Rishiraj Saha Roy (Max Planck Institute for Informatics, Germany)

Kartik Talamadupula (IBM Research, USA)

Florent Teichteil-Koenigsbuch (Airbus Central Research and Technology, France)

Xiting Wang (Microsoft Research Asia, China)

Fangzhao Wu (Microsoft Research Asia)

Outstanding Program Committee Members

Martin Aleksandrov (TU Berlin, Germany)

Antoine Amarilli (Télécom Paris, France)

Gregor Behnke (University of Freiburg, Germany)

Pascal Bercher (Australian National University, Australia)

Manuel Ciosici (Information Sciences Institute, USA)

Lavindra de Silva (University of Cambridge, UK)

Jinhong Jung (Seoul National University, South Korea)

Ulrich Junker (France)

Dusan Knop (Czech Technical University in Prague, Czech Republic)

Anna Latour (Leiden University, The Netherlands)

Alessandro Ronca (Sapienza University of Rome, Italy)

Thiago Serra (Bucknell University, USA)

David Smith (PSresearch, USA)

AAAI-21 Outstanding Paper Awards

This year, AAAI's Conference on Artificial Intelligence honored the following six papers, which exemplify high standards in technical contribution and exposition by authors. Three papers were selected for the award and three papers were selected for honorable mention from the main technical track and the Special Track on AI for Social Impact.

AAAI-21 Outstanding Paper Award

Informer: Beyond Efficient Transformer for Long Sequence Time-Series Forecasting
Haoyi Zhou, Shanghang Zhang, Jieqi Peng, Shuai Zhang, Jianxin Li, Hui Xiong, Wancai Zhang

AAAI-21 Outstanding Paper Award

Exploration-Exploitation in Multi-Agent Learning: Catastrophe Theory Meets Game Theory
Stefanos Leonardos, Georgios Pilioura

AAAI-21 Outstanding Paper Award, Honorable Mention

Learning from eXtreme Bandit Feedback
Romain Lopez, Inderjit S. Dhillon, Michael Jordan

Self-Attention Attribution: Interpreting Information Interactions Inside Transformer
Yaru Hao, Li Dong, Furu Wei, Ke Xu

AAAI-21 Outstanding Paper Award — Special Track on AI for Social Impact

Mitigating Political Bias in Language Models through Reinforced Calibration
Ruibo Liu, Chenyan Jia, Jason W Wei, Guangxuan Xu, Lili Wang, Soroush Vosoughi

AAAI-21 Outstanding Paper Award — Special Track on AI for Social Impact, Honorable Mention

Dual-Mandate Patrols: Multi-Armed Bandits for Green Security
Lily Xu, Elizabeth Bondi, Fei Fang, Andrew Perrault, Kai Wang, Milind Tambe

AAAI-21 Distinguished Papers

The AAAI-21 Chairs also selected six papers for Distinguished Paper Recognition, a new category of distinction.

IQ – Incremental Learning for Solving QSAT
Thomas L Lee, Viktor Tóth, Sean B Holden

Ethically Compliant Sequential Decision Making

Justin Svegliato, Samer Nashed, Shlomo Zilberstein

On the Tractability of SHAP Explanations
Guy Van den Broeck, Anton Lykov, Maximilian Schleich, Dan Suciu

Expected Eligibility Traces
Hado van Hasselt, Sephora Madjheurem, Matteo Hessel, Andre Barreto, David Silver, Diana Borsa

Polynomial-Time Algorithms for Counting and Sampling Markov Equivalent DAGs
Marcel Wienöbst, Max Bannach, Maciej Liskiewicz

Self-Supervised Multi-View Stereo via Effective Co-Segmentation and Data-Augmentation
Hongbin Xu, Zhipeng Zhou, Yu Qiao, Wenxiong Kang, Qiuxia Wu

IAAI-21 Innovative Application Awards

Each year the AAAI Conference on Innovative Applications selects the recipients of the IAAI Innovative Application Award. These deployed application case study papers must describe deployed applications with measurable benefits that include some aspect of AI technology. The application needs to have been in production use by its final end-users for sufficiently long so that the experience in use can be meaningfully collected and reported. The 2021 winners are:

Enhancing E-commerce Recommender System Adaptability with Online Deep Controllable Learning-to-Rank
Anxiang Zeng, Han Yu, Hualin He, Yabo Ni, Yongliang Li, Jingren Zhou, Chunyan Miao

Deeplite Neutrino™: An End-to-End Framework for Constrained Deep Learning Model Optimization
Anush Sankaran, Olivier Mastropietro, Ehsan Saboori, Yasser Idris, Davis Sawyer, MohammadHossein AskariHemmat, Ghouthi Boukli Hacene

Comparison Lift: Bandit-Based Experimentation System for Online Advertising
Tong Geng, Xiliang Lin, Harikesh S. Nair, Jun Hao, Bin Xiang, Shurui Fan

Robust PDF Document Conversion Using Recurrent Neural Networks
Nikolaos Livathinos, Cesar Berrospi, Maksym Lysak, Viktor Kuropiatnyk, Ahmed Nassar, Andre Carvalho,

Michele Dolfi, Christoph Auer, Kasper Dinkla, Peter W. J. Staar

Automated Reasoning and Learning for Automated Payroll Management
Sebastijan Dumancic, Wannes Meert, Stijn Goethals, Tim Stuyckens, Jelle Huygen, Koen Denies

Tool for Automated Tax Coding of Invoices
Tarun Tater, Sampath Dechu, Neelamadhav Gantayat, Meena Guptha, Sivakumar Narayanan

An Automated Engineering Assistant: Learning Parsers for Technical Drawings
Dries Van Daele, Nicholas Decleyre, Herman Dubois, Wannes Meert

Accurate and Interpretable Machine Learning for Transparent Pricing of Health Insurance Plans
Rohun Kshirsagar, Li-Yen Hsu, Charles H. Greenberg, Matthew McLelland, Anushadevi Mohan, Wideet Shende, Nicolas P. Tilmans, Min Guo, Ankit Chheda, Meredith Trotter, Shonket Ray, Miguel Alvarado

Mars Image Content Classification: Three Years of NASA Deployment and Recent Advances
Kiri Wagstaff, Steven Lu, Emily Dunkel, Kevin Grimes, Brandon Zhao, Jesse Cai, Shoshanna B. Cole, Gary Doran, Raymond Francis, Jake Lee, Lukas Mandrake

An End-to-End Solution for Named Entity Recognition in eCommerce Search
Xiang Cheng, Mitchell Bowden, Bhushan Ramesh Bhang, Priyanka Goyal, Thomas Packer, Faizan Javed

Preclinical Stage Alzheimer's Disease Detection Using Magnetic Resonance Image Scans
Fatih Altay, Guillermo Ramon Sánchez, Yanli James, Stephen V. Faraone, Senem Velipasalar, Asif Salekin

EeLISA: Combating Global Warming through the Rapid Analysis of Eelgrass Wasting Disease
Brendan H. Rappazzo, Morgan E. Eisenlord, Olivia J. Graham, Lillian R. Aoki, Phoebe D. Dawkins, Drew Harvell, Carla P. Gomes

Author Homepage Discovery in CiteSeerX
Krutarth Patel, Cornelia Caragea, Doina Caragea, C. Lee Giles

Using Unsupervised Learning for Data-Driven Procurement Demand Aggregation

*Eran Shoham, Adam Westerski,
Rajaraman Kanagasabai, Amudha
Narayanan, Samuel Ong, Jiayu Wong,
Manjeet Singh*

2021 Student Abstracts Awards

Each year AAAI honors select student abstract presenters with an award for the Best 3-Minute Presentation. In 2021, there were 20 finalists selected to compete for the best 3-Minute Presentation from among a field of 105 student abstracts. The finalists submitted prerecorded videos for review. The winners, who were selected by a special panel of judges, were as follows:

Student Abstract Best 3-Minute Presentation Winner

*Are Chess Discussions Racist? An
Adversarial Hate Speech Data Set
Rupak Sarkar, Ashiqur R. Khudabukhsh*

Student Abstract Best 3-Minute Presentation, Honorable Mention

*FACS: Fast Code-Based Algorithm for
Coalition Structure Generation
Redha Taguelmimt, Samir Aknine,
Djamila Boukreda, Narayan
Changder*

2021 Best Demonstration Award

The AAAI Conference selects one outstanding demo presentation for the Best Demonstration Award each year. In 2021, this honor went to Qianli Xu, Nicolas Gauthier, Wenyu Liang, Fen Fang, Hui Li Tan, Ying Sun, Yan Wu, Liyuan Li, and Joo-Hwee Lim for "TAILOR: Teaching with Active and Incremental Learning for Object Registration." The TAILOR system presents a method for registration of new objects with active and incremental learning based on human instruction and is demonstrated on a robotic arm platform. The meticulously planned demonstration encompassed multiple aspects of AI including vision, learning, human-feedback, and robotics; and was presented virtually in a very engaging manner at the recently concluded AAAI-21 conference.

AAAI Announces New Senior Members!

Senior Member status is designed to recognize AAAI members who have achieved significant accomplishments

within the field of artificial intelligence. To be eligible for nomination for Senior Member, candidates must be consecutive members of AAAI for at least five years and have been active in the professional arena for at least ten years. AAAI congratulates the following individuals on their election to AAAI Senior Member status:

Haris Aziz, University of New South Wales Sydney, Australia

Ece Kamar, Microsoft Research, USA

Akshat Kumar, Singapore Management University, Singapore

Sriraam Natarajan, University of Texas at Dallas, USA

Siddharth Srivastava, Arizona State University, USA

Gita Sukthankar, University of Central Florida, USA

Kartik Talamadupula, IBM Research, USA

William Yeoh, Washington University in St. Louis, USA

Neil Yorke-Smith, Delft University of Technology, Netherlands

AIES-21 to Be Held May 19-21

The Fourth AAAI/ACM Conference on Artificial Intelligence, Ethics, and Society will be held virtually May 19-21, 2021. AIES is convened each year by program co-chairs from computer science, law, and policy, the social sciences, and philosophy. The goal is to encourage talented scholars in these and related fields to submit their best work related to the morality, law, and political economy of data and AI. Full registration and program information is available at www.aies-conference.com/2021.

ICWSM-21 Registration Now Open!

The Fifteenth International AAAI Conference on Web and Social Media will be held at the Georgia Tech Hotel and Conference Center in Atlanta, Georgia from June 7-10. Due to the current uncertain situation with the pandemic, ICWSM-21 is planned as a dual virtual/in-person conference. ICWSM is an interdisciplinary conference that serves as a forum for researchers in computer science and social science to come together to share knowledge,

discuss ideas, exchange information, and learn about cutting-edge research in diverse fields with the common theme of online social media. This overall theme includes research in new perspectives in social theories, as well as computational algorithms for analyzing social media. ICWSM is a singularly fitting venue for research that blends social science and computational approaches to answer important and challenging questions about human social behavior through social media while advancing computational tools for vast and unstructured data.

ICWSM-21 will include a lively program of technical talks and posters and invited presentations. The ICWSM workshop and tutorial programs will continue in 2021 and will be held on the first day of the conference, June 7. For complete details about these programs, please see icwsm.org/2021.

Registration information is available at the ICWSM-21 website. The early registration deadline is April 16, and the late registration deadline is May 14. For full details about the conference program, please visit the ICWSM-21 website (icwsm.org) or write to icwsm21@aaai.org.

HCOMP-21 Papers Due in June!

The Ninth AAAI Conference on Human Computation and Crowdsourcing (HCOMP 2021) is currently being planned as a virtual conference, to be held in the fall. More information will be available soon at www.humancomputation.com/.

HCOMP is the home of the human computation and crowdsourcing community. It is the premier venue for presenting latest findings from research and practice into frameworks, methods and systems that bring together people and machine intelligence to achieve better results. While artificial intelligence (AI) and human-computer interaction (HCI) represent traditional mainstays of the conference, HCOMP believes strongly in fostering and promoting broad, interdisciplinary research. Our field is particularly unique in the diversity of disciplines it draws upon and contributes to, including human-centered qualitative studies and HCI design, social computing, artificial intelligence, economics, computational social science,

digital humanities, policy, and ethics. We promote the exchange of advances in human computation and crowdsourcing not only among researchers, but also engineers and practitioners, to encourage dialogue across disciplines and communities of practice.

AAAI Fall Symposium Series

AAAI is currently accepting proposals for the 2021 Fall Symposium Series, to be held Thursday through Saturday, November 4-6 at the Westin Arlington Gateway in Arlington, Virginia adjacent to Washington, DC. The Fall Symposium Series provides the AI community with a unique venue in which researchers from different areas of AI can present speculative work and work in progress, hold focused discussions over several days, build new communities for emerging disciplines, and build ties between existing disciplines. For complete information on proposal requirements, please see aaai.org/Symposia/Fall/fss21.php. Please submit your symposium proposals to the EasyChair submission site (easychair.org/conferences/?conf=fss21) no later than April 30. General inquiries regarding the symposium series should be directed to AAAI at fss21@aaai.org.

Interactive AI Magazine Launched!

AAAI is delighted to introduce the new *Interactive AI Magazine*, (interactiveaimag.org) a site that provides online access to articles and columns from *AI Magazine*, news and articles from *AI Topics*, as well as other materials originating from AAAI events such as videos from plenary sessions at the AAAI's annual conferences. Most of the materials on the *Interactive AI Magazine* website are open access, although some articles do require AAAI membership. The vision of former *AI Magazine* editor Ashok Goel, the site is a work in progress. Over time, additional content on the ecosystem of AI beyond the technical progress represented by the AAAI conference will be added, such as material on AI applications, AI industry, education in AI, AI ethics, and AI and society, as well

as conference calendars and reports, honors and awards, classifieds, and obituaries. Multimedia entries such as blogs and podcasts, are also planned. To make the website more interactive, a facility to allow commentary on posted articles is also in the works.

Over time, we hope that *Interactive AI Magazine* will become both an important source of information on AI and an online forum for conversations among the AI community. Your suggestions and contributions are welcome at interactiveaimag.org.

AAAI Executive Council Elections

Please watch your mailboxes for an announcement of the 2021 AAAI Election. The link to the electronic version of the annual AAAI Ballot will be mailed to all regular individual AAAI members in the spring. This year, the membership will elect four new councilors to serve three-year terms on the AAAI Executive Council. The online voting system is expected to close on June 18. Please note that the ballot will be available via the online system only. If you have not provided AAAI with an up-to-date e-mail address, please do so immediately by writing to membership21@aaai.org.

AAAI Congratulates the 2020 ACM Fellows

The ACM recently named 95 of its members as ACM Fellows for wide-ranging and fundamental contributions in areas including artificial intelligence, cloud computing, computer graphics, computational biology, data science, human-computer interaction, software engineering, theoretical computer science, and virtual reality, among other areas. The accomplishments of the 2020 ACM Fellows have driven innovations that ushered in significant improvements across many areas of technology, industry, and personal life.

AAAI would like to congratulate its members among this esteemed group:

Bonnie J. Dorr (IHMC)
For human-centered and linguistically inspired approaches to natural language processing.

Thomas Eiter (TU Wien)

For contributions to knowledge representation and reasoning, logic programming, and declarative problem solving.

Dieter Fox (University of Washington, NVIDIA)

For contributions to probabilistic state estimation, RGB-D perception, and learning for robotics and computer vision.

Holger H. Hoos (Leiden University)

For contributions to automated algorithm selection and configuration for optimization and machine learning.

Sven Koenig (University of Southern California)

For contributions to artificial intelligence, including heuristic search and multiagent coordination.

Kevin Leyton-Brown (University of British Columbia)

For contributions to artificial intelligence, including computational game theory, multiagent systems, machine learning, and optimization.

Xuelong Li (Northwestern Polytechnical University)

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Maja Mataric (University of Southern California)

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Radhika Nagpal (Harvard University)

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Paul Resnick (University of Michigan)

For contributions to recommender systems, economics and computation, and online communities.

Amit Sheth (University of South Carolina)

For contributions to data semantics and knowledge-enhanced computing.

Peter Stone (University of Texas at Austin)

For contributions to automated planning, learning, and multiagent systems with applications in robotics and e-commerce.

Toby Walsh (University of New South Wales and CSIRO Data61)

For contributions to artificial intelligence.

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