Day 1 | Wednesday February 28, 2024

8:00 AM  Registration and Light Breakfast

9:00 AM  Welcome and Introduction
          John Roberts
          Executive Director (Interim), MIT Corporate Relations

John Roberts has been Executive Director of MIT Corporate Relations (Interim) since February 2022. He obtained his Ph.D. in organic chemistry at MIT and returned to the university after a 20-year career in the pharmaceutical industry, joining the MIT Industrial Liaison Program (ILP) in 2013. Prior to his return, John worked at small, medium, and large companies, holding positions that allowed him to exploit his passions in synthetic chemistry, project leadership, and alliance management while growing his responsibilities for managing others, ultimately as a department head. As a program director at MIT, John built a portfolio of ILP member companies, mostly in the pharmaceutical industry and headquartered in Japan, connecting them to engagement opportunities in the MIT community. Soon after returning to MIT, John began to lead a group of program directors with a combined portfolio of 60-80 global companies. In his current role, John oversees MIT Corporate Relations which houses ILP and MIT Startup Exchange.
The Primary Directions of AI Research at the MIT Schwarzman College of Computing

Daniel Huttenlocher
Dean, MIT Stephen A. Schwarzman College of Computing

Daniel Huttenlocher is the inaugural dean of the MIT Stephen A. Schwarzman College of Computing. He began his academic career at Cornell University in 1988, where he was a member of the computer science faculty. In 1998, he chaired the task force that led to the creation of Cornell’s interdisciplinary Faculty of Computing and Information Science, later serving as its dean starting in 2009. In 2012, he became the founding dean of the new Cornell Tech campus in New York City.

Huttenlocher has extensive industry experience, having served as a scientist and lab director at Xerox’s Palo Alto Research Center for 12 years before leaving to help establish a financial technology startup, Intelligent Markets, in 2000.

Huttenlocher’s research and scholarship in computer science is broad and interdisciplinary, spanning algorithms, social media, and computer vision. He has earned the Longuet-Higgins Award for Fundamental Advances in Computer Vision (2010), and various fellowships and awards from the National Science Foundation, the Association for Computing Machinery, IEEE, and Phi Beta Kappa.

He is a member of the boards of directors of Amazon and Corning, and of the John D. and Catherine T. MacArthur Foundation, where he has served as chair since 2018.

Huttenlocher earned a bachelor’s degree from the University of Michigan in 1980, double-majoring in computer and communication sciences and experimental psychology. An MIT alumnus, he earned an SM in electrical engineering and computer science in 1984 and a PhD in computer science in 1988.

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Prof. Abelson is a Professor of Computer Science and Engineering in the EECS department at MIT and a Fellow of the IEEE. He has received many awards for teaching computer science, including the Bose Award, the Taylor L. Booth Education Award, the ACM Special Interest Group on Computer Science Education Award for Outstanding Contribution to Computer Science Education, and the ACM Karl Karlstrom Outstanding Educator Award.

Throughout his impressive career, he has played key roles in fostering MIT institutional educational technology initiatives including MIT OpenCourseWare and DSpace, and he has served as co-chair of the MIT Council on Educational Technology.

His focus on both education and democratizing culture and intellectual resources has made him a leader in this field. He is a founding director of Creative Commons, Public Knowledge, and the Free Software Foundation. Within CSAIL he is also involved with the Internet Policy Research Initiative (IPRI), which collaborates with policy-makers and technologists to improve the trustworthiness and effectiveness of interconnected digital systems like the internet. He is also a co-author of the 2008 book *Blown to Bits*, which talks about the cultural and political disruptions caused by the information explosion.

Prof. Abelson is pursuing projects with this overall theme of making information technology more accessible for all.

Over a century after Wallace Stevens composed “The Snowman,” his one-sentence poem appears to model the objectivity that we seek in successfully engineered AI. But what narrative follows from the listener’s and the reader’s closing encounter with “nothing”? That moment invites, even imposes, an ethic of mindfulness that differentiates creator from created, (snow-)man from machine.
Aude Oliva
MIT Director, MIT-IBM Watson AI Lab
Director of Strategic Industry Engagement, MIT Schwarzman College of Computing

Aude Oliva, PhD is the MIT director in the MIT-IBM Watson AI Lab and director of strategic industry engagement in the MIT Schwarzman College of Computing, leading collaborations with industry to translate natural and artificial intelligence research into tools for the wider world. She is also a senior research scientist at the MIT Computer Science and Artificial Intelligence Laboratory (CSAIL), where she heads the Computational Perception and Cognition group. Oliva has received an NSF Career Award in computational neuroscience, a Guggenheim fellowship in computer science and a Vannevar Bush Faculty Fellowship in cognitive neuroscience. She has served as an expert to the NSF Directorate of Computer and Information Science and Engineering on the topic of human and artificial intelligence. She is currently a member of the scientific advisory board for the Allen Institute for Artificial Intelligence. Her research is cross-disciplinary, spanning human perception and cognition, computer vision and cognitive neuroscience, and focuses on research questions at the intersection of all three domains. She earned a MS and PhD in cognitive science from the Institut National Polytechnique de Grenoble, France.
Retsef Levi is the J. Spencer Standish (1945) Professor of Operations Management at the MIT Sloan School of Management. He is a member of the Operations Management Group at Sloan and affiliated with the Operations Research Center. Before coming to MIT, he spent a year in the Department of Mathematical Sciences at the IBM T.J. Watson Research Center as the holder of the Goldstine Postdoctoral Fellowship. He received a Bachelor's degree in Mathematics from Tel-Aviv University (Israel) in 2001, and a PhD in Operations Research from Cornell University in 2005. Levi spent more than 11 years in the Israeli Defense Forces as an Officer in the Intelligence Wing and was designated as an Extra Merit Officer. After leaving the Military, Levi joined an emerging new Israeli hi-tech company as a Business Development Consultant.

Levi's current research is focused on the design of analytical data-driven decision support models and tools addressing complex business and system design decisions under uncertainty in areas, such as health and healthcare management, supply chain, procurement and inventory management, revenue management, pricing optimization and logistics. He is interested in the theory underlying these models and algorithms, as well as their computational and organizational applicability in practical settings. Levi is leading several industry-based collaborative research efforts with some of the major academic hospitals in the Boston area, such as Mass General Hospital (MGH), Beth Israel Deaconess Medical Center (BIDMC), Children's Hospital, and across the US (e.g., Memorial Sloan Kettering Cancer Center, NYC Presbyterian Hospital System and the American Association of Medical Colleges). Levi is the lead PI on an MIT contract with the Federal Drug Administration (FDA) to develop systematic risk management approach to address risk related to economically motivated adulterations of food and drug products manufactured in China. He has also been involved in developing operational risk and process safety management methodologies for various organizations, in the healthcare, pharmaceutical and oil industries. Levi received the NSF Faculty Early Career Development award, the 2008 INFORMS Optimization Prize for Young Researchers and the 2013 Daniel H. Wagner Prize.

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Dimitris Bertsimas is the Boeing Professor of Operations Research, the codirector of the Operations Research Center, and faculty director of the Master of Business Analytics at MIT. His research interests include optimization, machine learning and applied probability and their applications in health care, finance, operations management, and transportation. Bertsimas has coauthored more than 200 scientific papers and four graduate level textbooks. He is the editor in Chief of INFORMS Journal of Optimization. He has supervised 67 doctoral students and is currently supervising 25 others. Bertsimas is a member of the National Academy of Engineering, an INFORMS fellow, and has received numerous prestigious research and teaching awards. He holds an SM in applied mathematics and a PhD in operations research from MIT.
4:00 PM

Generative AI, Ethics and Work of the Future
Julie Shah
Interactive Robotics Group Leader, MIT CSAIL
H.N. Slater Professor, MIT Department of Aeronautics and Astronautics

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Julie Shah is the H.N. Slater Professor of Aeronautics and Astronautics at MIT and leads the Interactive Robotics Group of the Computer Science and Artificial Intelligence Laboratory. Shah received her SB (2004) and SM (2006) from the Department of Aeronautics and Astronautics at MIT, and her PhD (2010) in Autonomous Systems from MIT. Before joining the faculty, she worked at Boeing Research and Technology on robotics applications for aerospace manufacturing. She has developed innovative methods for enabling fluid human-robot teamwork in time-critical, safety-critical domains, ranging from manufacturing to surgery to space exploration. Her group draws on expertise in artificial intelligence, human factors, and systems engineering to develop interactive robots that emulate the qualities of effective human team members to improve the efficiency of human-robot teamwork. In 2014, Shah was recognized with an NSF CAREER award for her work on “Human-aware Autonomy for Team-oriented Environments,” and by the MIT Technology Review TR35 list as one of the world’s top innovators under the age of 35. Her work on industrial human-robot collaboration was also recognized by the Technology Review as one of the 10 Breakthrough Technologies of 2013, and she has received international recognition in the form of best paper awards and nominations from the International Conference on Automated Planning and Scheduling, the American Institute of Aeronautics and Astronautics, the IEEE/ACM International Conference on Human-Robot Interaction, the International Symposium on Robotics, and the Human Factors and Ergonomics Society.

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4:45 PM

Adjournment with Networking Reception

Day 2 | Thursday February 29, 2024: Generative AI and Work of the Future
Sheri Brodeur is director of Corporate Relations at MIT. Prior to this she spent 22 years at Hewlett-Packard Company in several roles. Her most recent position was in the HP Labs Strategy and Innovation Office. The role of this organization is to set HP Labs research strategy and extend HP's internal research capacity by partnering with universities, governments and other companies on a global scale to much more rapidly advance the positive impact of technology on the world.

Sheri spent 15 years with HP Labs, HP's corporate researcher center, managing major university alliances and programs, including a $25M program with MIT. She has been responsible for managing global higher education technology programs in the areas of Security, Digital Libraries (DSpace), Information Management, and Sustainability.

Prior to this role she spent the previous eight years at Hewlett-Packard in the sales organization moving from the position of Field Sales Engineer to Global Account Manager. In this role she was responsible for selling, supporting and delivering high end test and measurement solutions for the communications industry.

Brodeur has a BS in Ceramic Engineering from Alfred University and an MS in Solid State Science from the Materials Research Laboratory at Penn State University.

Ben Armstrong is the executive director of MIT's Industrial Performance Center. His research and teaching examine how workers, firms, and regions adapt to technological change. In his work, Ben has collaborated with governments, non-profit organizations, and firms to understand how scholarship and education can be useful to practitioners and policymakers. Previously, he worked for Google Inc. and served on the board of an open-source hardware non-profit. Ben received his PhD from MIT.
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Jinhua Zhao is the Professor of Cities and Transportation at the Massachusetts Institute of Technology (MIT). Prof. Zhao integrates behavioral and computational thinking to decarbonize the world’s mobility system.

Prof. Zhao founded the MIT Mobility Initiative, coalescing the Institute’s efforts on transportation research, education, entrepreneurship, and engagement. He hosts the MIT Mobility Forum, highlighting transportation innovation from MIT and across the globe.

Prof. Zhao directs the JTL Urban Mobility Lab and Transit Lab, leading long-term collaborations with transportation authorities and operators worldwide and enabling cross-culture learning between cities in North America, Asia, and Europe.

Prof. Zhao leads the program “Mens, Manus, and Machina (M3S): How AI Impacts the Future of Work and Future of Learning” at the Singapore MIT Alliance for Research and Technology (SMART).

He is the co-founder and chief scientist for TRAM.Global, a mobility decarbonization venture.

Research Interest

He brings behavioral science and transportation technology together to shape travel behavior, design mobility systems, and reform urban policies. He develops computational methods to sense, predict, nudge, and regulate travel behavior and designs multimodal mobility systems that integrate automated and shared mobility with public transport. He sees transportation as a language to describe a person, characterize a city, and understand an institution and establishes the behavioral foundation for transportation systems and policies.

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