Day 1 | Wednesday, November 1, 2017 (EDT timezone)

8:00am - 8:30am  Breakfast and Networking

8:30am - 8:40am  Welcome
                   Rafael Reif, President, MIT

8:40am - 8:50am  Opening Remarks
                   Daniela Rus, Director, MIT CSAIL, and Professor, MIT EECS

8:50am - 9:20am  Open Plenary
                   Yann LeCun, Director, Facebook AI Research, and Professor, NYU
                   Day 1 Panel Moderator:
                   John Markoff, Fellow, Center for Advanced Study in the Behavioral Sciences

9:20am - 10:05am The AI Revolution: Why now? What it means and how to realize the potential
                   Erik Brynjolfsson, Director, MIT Initiative on the Digital Economy, and Professor, MIT Sloan School of Management
                   Kai-Fu Lee, Chairman and CEO, Sinovation Ventures
                   James Manyika, Chairman and Director, McKinsey Global Institute, and Senior Partner, McKinsey & Company
                   Mona Vernon, CTO, ThomsonReuters Labs

10:05am - 10:15am Break

10:15am - 11:00am Positioning for Success: Augmentation vs. Automation
                   Dimitris Papageorgiou, Partner, People Advisory Services, Ernst & Young
                   John Van Reenen, Professor, MIT Department of Economics and MIT Sloan School of Management
                   Krystyn Van Vliet, Professor of Material Science and Engineering and Biological Engineering, MIT Dept. of Materials Science and Engineering
                   Sophie Vandebroek, Chief Operating Officer, IBM Research

11:00am - 11:40am Strategies to Navigate the First Phase
                   Allen Blue, Co-Founder & Vice President of Product Management, LinkedIn
                   Jennifer Chayes, Technical Fellow & Managing Director, Microsoft Research New England; Microsoft Research New York City; Microsoft Research Maluuba, Montreal
                   Sam Madden, Professor, MIT CSAIL, and Faculty Co-Director, SystemsThatLearn@CSAIL
                   Alex “Sandy” Pentland, Professor, MIT Sloan School of Management, and Founding Director, MIT Connection Science Research Initiative
Day 1 | Wednesday, November 1, 2017 (continued)

11:40am- 12:25pm  Lunch Talk: The State of AI in China  
Kai-Fu Lee, Chairman and CEO, Sinovation Ventures, and  
President, Sinovation Ventures Artificial Intelligence Institute

A former artificial intelligence researcher, former head of Microsoft  
Research Asia and Google China, and long time investor in Chinese  
startups, Dr. Kai-Fu Lee will discuss that everyone should understand about cutting edge A.I. applications and  
technology powerhouses in China.

12:25pm - 1:10pm  Thinking Machines: Robots Rising  
Dania Rus, Director, MIT CSAIL, and Professor, MIT EECS  
Moshe Vardi, Professor, Computational Engineering, Rice University, and Director, Ken Kennedy Institute for  
Information Technology  
Manuela Veloso, University Professor, and Head, Machine Learning Department, School of Computer  
Science, Carnegie Mellon University

1:10pm - 1:50pm  Intelligent Automation: Opportunities and Challenges  
Josh Tenenbaum, Professor, MIT CSAIL  
Simon Thompson, Head of Big Data and Customer Experience Practice, BT  
Patrick Winston, Professor, MIT CSAIL

1:50pm - 2:20pm  Afternoon Plenary: Fireside Chat  
Eric Schmidt, Executive Chairman, Alphabet  
Host: Dania Rus, Director, MIT CSAIL, and Professor, MIT EECS

2:20pm - 3:05pm  Reality Check: What Major Technological Challenges Still Need to be Addressed to Realize Full  
Potential?  
Cynthia Breazeal, Director Personal Robots Group and Co-founder and Chief Scientist of Jibo  
John Leonard, Professor, MIT CSAIL and Toyota Research Institute  
Daniel Theobald, Co-Founder Vecna Robotics, Co-Founder & President, MassRobotics  
Antonio Torralba, Professor of Electrical Engineering and Computer Science, MIT CSAIL

3:05pm - 3:50pm  AI, Ethics, Law and Policy  
Todd Solomon, Head of Employee Benefits, Compensation & Employment Practice Group,  
McDermott Will & Emery  
Katie Stebbins, Vice President of Economic Development, University of Massachusetts  
Catherine Tucker, Chair, MIT Sloan PhD Program, and Professor of Marketing, MIT Sloan School of  
Management  
Daniel Weitzner, Principal Research Scientist, MIT CSAIL, and Founding Director, MIT Internet Policy Research  
Initiative

3:50pm - 4:30pm  Vision: Industry 2020-2050  
Rod Brooks, Founder, Chairman and CTO, Rethink Robotics, and Co-Founder, iRobot  
Tom Kochan, Co-Director and Professor, Work and Employment Research, MIT Sloan School of Management  
Andrew McAfee, Co-Director, MIT Initiative on the Digital Economy, and Principal Research Scientist,  
MIT Sloan School of Management

4:30pm - 4:35pm  Closing Remarks  
Lori Glover, Managing Director, Alliances, and Executive Director, SystemsThatLearn@CSAIL
Day 2 | Thursday, November 2, 2017 (EDT timezone)

8:00am - 8:50am  Breakfast and Networking

8:50am - 9:00am  Opening Remarks
    Erik Brynjolfsson, Director, MIT Initiative on the Digital Economy, and Professor, MIT Sloan School of Management

9:00am - 9:50am  Mind vs Machine: Implications for Productivity, Wages and Employment
    Moderator: Daron Acemoglu, Professor, MIT Department of Economics
    Erik Brynjolfsson, Director, MIT Initiative on the Digital Economy, and Professor, MIT Sloan School of Management
    Robert Gordon, Professor of Social Sciences, Northwestern University
    Joel Mokyr, Professor, Northwestern University

9:50am - 10:30am  Fireside Chat
    Rusty Justice, Co-Owner, Bit Source
    Host: Maria T. Zuber, Vice President for Research and E. A. Griswold Professor of Geophysics, MIT

10:30am - 10:50am  Break

10:50am - 11:40am  Mind Plus Machine- How can AI help workers?
    Moderator: Anant Agarwal, CEO, edX, Inc.
    Fred Goff, CEO, Jobcase
    Andrew Lo, Professor, MIT Sloan School of Management; Director, MIT Laboratory for Financial Engineering; and Principal Investigator, MIT CSAIL
    Sanjay Podder, Managing Director, Accenture Labs (India)

11:40am - 12:30pm  The AI Skill Set
    Moderator: Barbara Dyer, Senior Lecturer, MIT Sloan School of Management
    Becky Frankiewicz, President, Manpower Group, Inc.
    Tom Hopcroft, President & CEO, Mass Technology Leadership Council (MassTLC)
    Tod Loofbourrow, CEO, ViralGains, and Digital Fellow, MIT Initiative on the Digital Economy

12:30pm - 1:30pm  Lunch and Networking

1:30pm - 2:15pm  Retrain and Retain
    Moderator: DavidAutor, Professor of Economics and Associate Head, MIT Economics
    Lavea Brachman, Vice President of Programs, Ralph C. Wilson, Jr. Foundation
    Randall Davis, Professor, MIT CSAIL
    George Westerman, Principal Research Scientist, MIT Initiative on the Digital Economy
    Christopher White, Head, Network Algorithms, Analytics, Control and Security Research Lab, Nokia Bell Labs

2:15pm - 2:30pm  Break

2:30pm - 2:40pm  Video Presentation
    Jeffrey Sachs, University Professor and Director, Center for Sustainable Development, The Earth Institute, Columbia University

(continued)
Day 2 | Thursday, November 2, 2017 (continued)

2:40pm-3:40pm  A Call to Action  
**Moderator: Kathleen Kennedy**, Director, Special Projects, MIT  
**Erik Brynjolfsson**, Director, MIT Initiative on the Digital Economy, and Professor, MIT Sloan School of Management  
**Barbara Dyer**, Senior Lecturer, MIT Sloan School of Management  
**Tom Kochan**, Co-Director and Professor, Work and Employment Research, MIT Sloan School of Management  
**Elisabeth B. Reynolds**, Executive Director, MIT Industrial Performance Center  
**Daniela Rus**, Director MIT CSAIL, and Professor, MIT EECS  
**Sanjay Sarma**, Vice President for Open Learning, MIT, and Professor, MIT Department of Mechanical Engineering

3:40pm - 4:10pm  Spotlight: Inclusive Innovation Challenge  
**Devin Cook**, Executive Producer, Inclusive Innovation Challenge, MIT Initiative on the Digital Economy

4:10pm - 4:30pm  Closing Remarks  
**Erik Brynjolfsson**, Director, MIT Initiative on the Digital Economy, and Professor, MIT Sloan School of Management  
**Daniela Rus**, Director, MIT CSAIL, and Professor, MIT EECS

AI- artificial intelligence- is in the news almost daily. Businesses are looking for strategies to incorporate AI for efficiency and a competitive advantage. The workforce is concerned about the changes AI will bring for jobs and required skill sets.

At MIT, the Computer Science and Artificial Intelligence Lab (CSAIL) and the Sloan School of Management’s Initiative on the Digital Economy (IDE) have joined together to host a 2-day conference November 1 & 2, 2017 which will bring together thought leaders from academia, business leaders, economists and visionaries for a thoughtful dialogue on AI’s impact. The first day will focus on helping industry understand how to navigate the opportunities and challenges of the “AI Revolution”, where the second day will provide valuable insight to individuals in the workforce on charting career paths across many fields impacted by the advancements in AI.

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Learn more at: cap.csail.mit.edu

About the MIT Initiative on the Digital Economy

The MIT Initiative on the Digital Economy (IDE) is a major effort focused on the impact of digital technology on businesses, the economy, and society. The IDE is analyzing the broad sociological changes brought about by the advance and spread of digital technology. Learn more at: ide.mit.edu