MIT | CSAIL MIT COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE LABORATORY

COMPUTING THE FUTURE CELEBRATING 50 YEARS OF COMPUTER SCIENCE & ARTIFICIAL INTELLIGENCE MAY 28&29/2014 MIT STATA CENTER

Tuesday, May 27, 2014		
Location: MIT Stata Center, 4th Floor R&D Commons		
6:00-7:30 PM	**90min**	*Welcome Reception/Registration*
Wednesday, May 28, 2014		
Location: MIT Stata Center, 32-123 Kirsch Auditorium (primary venue), 32-141 (overflow) and 32-124 (overflow)		
8:00 AM	**45min**	*Continental Breakfast/Registration*
8:45 AM	**15min**	*Welcome and Opening Remarks* **Tomás Lozano-Pérez,** MIT CSAIL **L. Rafael Reif,** MIT **Daniela Rus,** MIT CSAIL
9:00 - 10:30AM	**90min**	**SESSION I**
9:00-9:25	**25min**	*Fifty Years of Robotics; Now the Practical Payoff* **Rodney Brooks,** Rethink Robotics, Inc
9:25-9:50	**25min**	*Tales from the Blocks World* **Matt Mason,** Carnegie Mellon University
9:50-10:15	**25min**	*Dynamic Robots* **Marc Raibert,** Boston Dynamics
10:15-10:20	**5min**	*Aerial Robots: Computing in the Sky* **Russ Tedrake,** MIT CSAIL
10:20-10:25	**5min**	*The Analysis Revolution in Genomics and Modern Medicine* **Manolis Kellis,** MIT CSAIL
10:25-10:30	**5min**	**WRAP UP**
10:30 AM		*BREAK*
11:00-12:25PM	**85min**	**SESSION II**
11:00-11:25	**25min**	*Akamai: From Theory to Practice* **Tom Leighton,** Akamai Technologies
11:25-11:50	**25min**	*Everyday Life in a Data-Rich World* **Jon Kleinberg,** Cornell University
11:50-12:15PM	**25min**	*The Evolution of Proofs in Computer Science* **Yael Tauman Kalai,** Microsoft Research
12:15-12:20PM	**5min**	*Quantum Computing and Fundamental Physics* **Scott Aaronson,** MIT CSAIL

Time	Duration	Event
12:20-12:25	**5min**	**WRAP UP**
12:25PM	**95min**	*LUNCH*
2:00-3:25PM	**85min**	**SESSION III**
2:00-2:25PM	**25min**	*Towards a Theory of Trust in Networks of Humans and Computers* **Jeannette Wing,** Microsoft Research
2:25-2:50PM	**25min**	*Harmonizing Technology with Society* **Latanya Sweeney,** Harvard University
2:50-3:15PM	**25min**	*On the Benefits of Coordination – Before, During, and Even After the Fact! – in Differential Privacy* **Cynthia Dwork,** Microsoft Research
3:15-3:20PM	**5min**	*The Scalable Commutativity Rule: Designing Scalable Software for Multicore Processors* **Nickolai Zeldovich,** MIT CSAIL
3:20-3:25	**5min**	**WRAP UP**
3:25PM	**35min**	*BREAK*
4:00-5:20PM	**80min**	**SESSION IV**
4:00-4:25PM	**25min**	*Time Sharing vs Personal Computing* **Ivan Sutherland,** Portland State University
4:25-4:50PM	**25min**	*The End of Moore's Law and the Future of Computing* **Bill Dally,** Stanford University and NVIDIA Corporation
4:50-5:15PM	**25min**	*How I invented Ethernet at MIT Project MAC 1969-1972* **Bob Metcalfe,** The University of Texas at Austin
5:15-5:20	**5min**	**WRAP UP**
5:20 PM		*ADJOURN*
6:00-7:00PM		**Reception (by invitation only) – Cambridge Marriott Hotel** *Special reception for speakers, sponsors and invited guests*
7:00-9:00PM		**Banquet Dinner – Cambridge Marriott Hotel – Grand Ballroom** 7:00 Preset Salads 7:10-7:13 3mins Welcome Remarks 7:25 Salads Clear and Entrees Out 7:55 Champagne service begins for toast at 8:28-8:30 7:55-7:57 2mins Daniela introduce Video 7:57-8:02 5mins Video Plays 8:02-8:10 8mins Daniela Speech, Founders Award Presentation 8:10-8:13 3mins Transition Time 8:13-8:23 10 mins Bob Fano Speech 8:23-8:30 7mins Cake, Happy Birthday, Intro to ImprovBoston 8:30 Dessert Served 8:30-9:00 Entertainment ImprovBoston

Thursday, May 29, 2014 **Location**: MIT Stata Center, 32-123 Kirsch Auditorium (primary venue), 32-141 (overflow) and 32-124 (overflow)		
8:00 AM	**60min**	*Continental Breakfast/Registration*
9:00-10:20AM	**80min**	**SESSION V**
9:00-9:25AM	**25min**	*Turtles All the Way Down* **Greg Papadopoulos,** New Enterprise Associates
9:25-9:50AM	**25min**	*Graduate Education and Research in the Information Age* **Daniel Huttenlocher,** Cornell Tech NYC
9:50-10:15AM	**25min**	*Some Surprising Lessons Learned while Creating a Real MOOC-based Masters of Science* **Charles Isbell,** Georgia Institute of Technology
10:15-10:20AM	**5min**	**WRAP UP**
10:20AM	**30min**	*BREAK*
10:50-12:20PM	**90min**	**SESSION VI**
10:50-11:15AM	**25min**	*Small, n=me, data* **Deborah Estrin,** Cornell Tech NYC
11:15-11:40AM	**25min**	*The Right Thing: Things We Hit, Things We Missed, Things Still Left To Do* **Tom Knight,** Ginko Bioworks
11:40-11:45AM	**5min**	*Teaching Computers to See* **Antonio Torralba,** MIT CSAIL
11:45-11:50AM	**5min**	*Modeling Brain Connectivity from Functional MRI* **Polina Golland,** MIT CSAIL
11:50-12:15PM	**25min**	*Reflections of an Entrepreneur on Experiences at MIT Then and Nnow* **Ray Stata,** Analog Devices, Inc
12:15-12:20PM	**5min**	*WRAP UP*
12:20-12:30PM	**10 mins**	*CLOSING REMARKS*
12:30PM		*ADJOURN*