CELEBRATION OF
50 YEARS OF THE
A.M. TURING AWARD

JUNE 23 - 24, 2017
WESTIN ST. FRANCIS, SAN FRANCISCO

Master of Ceremonies: Dame Wendy Hall

Day 1, Friday, June 23, 2017 08:30 - 20:15

08:30 - 08:35 Introduction/Welcome
Vicki Hanson, ACM President
Craig Partridge, Program Chair

08:35 - 08:55 Turing Laureates Introduction

08:55 - 09:15 Impact of Turing Recipients’ Work
Barbara Liskov (2008 Turing Laureate)

09:15 - 10:30 Advances in Deep Neural Networks
Panelists: Judea Pearl (Moderator and 2011 Turing Laureate), Michael Jordan, Fei-Fei Li, Stuart Russell, Ilya Sutskever and Raquel Urtasun

10:30 - 11:00 Break

11:00 - 11:10 Video – Turing Laureates 1966 to 1990
A retrospective celebrating the achievements of the earliest Turing Laureates

11:10 - 12:25 Restoring Personal Privacy without Compromising National Security
Panelists: Joan Feigenbaum (Moderator), Whitfield Diffie (2015 Turing Laureate), Bryan Ford, Nadia Heninger and Paul Syverson

12:25 - 13:30 Lunch

13:30 - 13:45 Video – A Reflection
Turing Laureates take a brief look back on their careers and share some thoughts on the future

(Over)
13:45 - 15:00  Preserving Our Past for the Future  
**Panelists:** Craig Partridge (Moderator), Vint Cerf (2004 Turing Laureate), Brewster Kahle, Natasa Milic-Frayling, Mahadev Satyanarayanan and Brent Seales

15:00 - 15:30  Break

15:30 - 15:45  Video - On Methodology  
Turing Laureates discuss their approach to work and share advice for those who aspire to follow in their footsteps

15:45 - 17:00  Moore’s Law Is Really Dead: What’s Next?  
**Panelists:** John Hennessy (Moderator), Doug Burger, Norm Jouppi, Butler Lampson (1992 Turing Laureate), and Margaret Martonosi

17:00 - 18:15  Challenges in Ethics and Computing  
**Panelists:** Deirdre Mulligan (Moderator), Jennifer Chayes, Helen Nissenbaum, Raj Reddy (1994 Turing Laureate) and Noel Sharkey

18:15 – 20:15  Turing Celebration Reception

**Day 2, Saturday, June 24, 2017 09:00 - 12:30**

09:00 - 09:05  Welcome Back

09:05 - 09:20  Computer Science as a Major Body of Accumulated Knowledge  
Donald Knuth (1974 Turing Laureate)

09:20-10:35  Quantum Computing: Far Away? Around the Corner? Or Maybe Both at the Same Time?  
**Panelists:** Umesh Vazirani (Moderator), Dorit Aharonov, Jay Gambetta, John Martinis, and Andy Yao (2000 Turing Laureate)

10:35 - 11:05  Break

11:05 - 12:20  Augmented Reality: From Gaming to Cognitive Aids and Beyond  
**Panelists:** Blair MacIntyre (Moderator), Fred Brooks (1999 Turing Laureate), Peter Lee, Yvonne Rogers and Ivan Sutherland (1988 Turing Laureate)

12:20 - 12:30  Closing Remarks  
Wendy Hall

www.acm.org/turing-award-50