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

| 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 |

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CELEBRATING 50 YEARS
OF COMPUTING'S GREATEST ACHIEVEMENTS

www.acm.org/turing-award-50