



# The Strachey Lectures

Oxford Computer Science Public Lectures

DEPARTMENT OF  
**COMPUTER  
SCIENCE**

## Computer Agents that Interact Proficiently with People

Professor Sarit Kraus,  
Bar-Ilan University & University of Maryland

### DOUBLE BILL

*Learning and Efficiency  
of Outcomes in Games:*  
Ada Lovelace Lecture

by Eva Tardos  
(Department of Computer  
Science, Cornell University)

is on in the same  
venue at 5:30pm.  
With refreshments  
available in-between.

Book for this second  
lecture separately at:  
[goo.gl/gf5rYN](http://goo.gl/gf5rYN)

**16:00 - 17:00**

**06 · 06 · 2017**

Lecture Theatre 2  
Oxford Mathematical  
Institute,  
University of Oxford,  
Andrew Wiles Building,  
Woodstock Rd,  
Oxford OX2 6GG

Automated agents that interact proficiently with people can be useful in supporting, training or replacing people in complex tasks. The inclusion of people presents novel problems for the design of automated agents' strategies. People do not necessarily adhere to the optimal, monolithic strategies that can be derived analytically. Their behaviour is affected by a multitude of social and psychological factors. In this talk I will show how combining machine learning techniques for human modelling, human behavioural models, formal decision-making and game theory approaches enables agents to interact well with people. Applications include intelligent agents

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