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## Computer Science in Action

Do your students wonder what computer scientists do?

This inspirational day of computer science will take them to the cutting edge in fields from Artificial Intelligence, software development and algorithms to pure programming. Five renowned speakers from universities, industries and the media will reveal computer science at its very best and your students will have a whole lot of fun along the way. This day also features a special session with hints and tips for examination success.

- Artificial Intelligence: Time to Welcome Our New Robot Overlords?
- Mobile Autonomy is a Pervasive Technology: From Self Driving Cars to Mars. Why Robotics Matters
- Functional Programming
- Algorithm Complexity and P versus NP
- Computer Security in Action



Online



£ + VAT\*

Plus one COMPLIMENTARY staff ticket per 10 students. \*VAT may be reclaimable please check with your finance department

ttp is the leading provider of inspirational, informative, Education in Action study days for A-level, IB, BTEC and GCSE students.

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Cutting-edge content  
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Modestly priced to offer access to all  
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in ACTION

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## Computer Science in ACTION

Featuring a special session with expert hints and tips for exam success.

### Artificial Intelligence: Time to Welcome Our New Robot Overlords? / [Emma Byrne](#)



Thinkers like Stephen Hawking and Elon Musk have recently voiced their fears that AI could be about to make a great and dangerous leap forward. Dr Emma Byrne will explain why AI is already more advanced than most people realise [...]

Dr Emma Byrne has a PhD in AI from University College London. Her research has involved creating robotic systems to carry out experiments in genetics and simulations of the human [...]



### Mobile Autonomy is a Pervasive Technology: From Self Driving Cars to Mars. Why Robotics Matters / [Paul Newman](#)

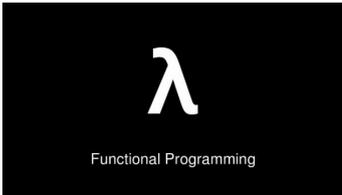


The machines are coming and it's going to be good! If we choose to the coming years will see machines doing more for us and doing it better. In this talk Paul will pull apart some of the competencies needed to build [...]

Paul Newman is the BP Professor of Information Engineering at the University of Oxford. He heads up the Mobile Robotics Group which enjoys a world leading reputation in mobile autonomy [...]



### Functional Programming / [Conor McBride](#)

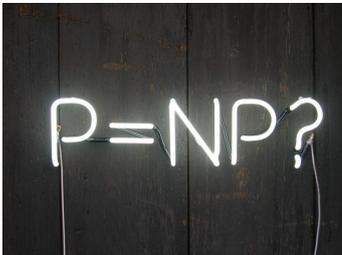


The inimitable Dr Conor McBride, a lecturer at the University of Strathclyde, will persuade you that Functional Programming is the future of computer science and tell you why you must be involved.

Conor McBride completed his PhD in 'Dependently Typed Functional Programs and their Proofs' in 1999. Since then he's worked at Durham University and Royal Holloway before joining the University [...]



### Algorithm Complexity and P versus NP / [Leslie Goldberg](#)



There are thousands of important problems for which we don't know whether there exists a fast algorithmic solution. Leslie will introduce the "P vs NP problem", which seeks to answer this question. Oh.. and there's a million-dollar prize for a [...]

Leslie's main research interest is computational complexity, where the aim is to discover which computational problems are feasible, which are inherently infeasible, and why.



### Computer Security in Action / [Graham Cluley](#)



Graham Cluley, a veteran of the computer security business, describes the lies he was told and the lessons he learnt while working in the anti-virus industry for over two decades.

Graham wrote the first ever version of Dr Solomon's Anti-Virus Toolkit for Windows. Subsequently he had senior roles in Sophos and McAfee. In 2011 Graham was inducted into the Infosecurity [...]



## The Training Partnership

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