

# Post event report



The 1<sup>st</sup> e-Crime & Artificial Intelligence Forum

5<sup>th</sup> July 2018 | London, UK

Strategic sponsors



“ Thought provoking presentation sessions around the future implications of Artificial Intelligence and Machine Learning provided by leaders of their field. Thoroughly enjoyable event that provided current insight into AI cybersecurity related matters that has certainly provided me greater knowledge and awareness of this direction of travel. Good opportunity to discuss and network across different sectors – thanks! ”

Investigation and Security Manager,  
Corporate Security, Asset Protection  
Group, British Airways

“ I did enjoy the event and found a lot of the presentations informative. I also left with an idea that was developed during one of the presentations which was unusual! ”

Head of Financial Crime Intelligence,  
Aviva

Inside this report:  
Sponsors  
Key themes  
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### Key themes

Improving web security

AI in core network security

AI's role in defending against malicious insiders

Evaluating AI and machine learning solutions

AI in identity and access management

Understanding AI, machine learning, deep learning and neural nets

Deploying AI solutions

AI in alert prioritization and data analysis

### Who attended?



#### Cyber-security

We have a 15-year track record of producing the events cyber-security professionals take seriously

#### Risk Management

We attract senior risk officers with responsibility for information risk assessment and mitigation

#### Fraud, Audit, Compliance

We provide the go-to events for fraud prevention and compliance owners at the world's key corporates

#### Data Protection & privacy

We are a key venue for decision-makers with budget and purchasing authority

### Speakers

Subhajit Basu,  
Associate Professor, Cyber Law,  
**University of Leeds**

J. Mark Bishop,  
Professor of Cognitive Computing,  
**Goldsmiths University**

Kris Blamires,  
Detective Sergeant, Investigation &  
Compliance Manager,  
**Metropolitan Police**

Nigel Brown,  
Lead for Resilient ICT Strategy, Civil  
Contingencies Secretariat,  
**Cabinet Office**

Chiranjit Chakraborty,  
Data Scientist,  
**Bank of England**

Brad Freeman,  
Head of Threat Analysis,  
**Senseon**

Anne Godbold,  
Compliance and Regulatory  
Change Specialist,  
**Accenture**

Ajwad Hashim,  
VP Innovation and Emerging Technology,  
**Barclays**

Adam Hembury,  
Director of Innovation,  
**DLA Piper**

Dilshad Hussain, CEO,  
**Universal Data Protection**

Simon Jenner, CISO,  
**Booking.com**

Finbarr Joy, Group CTO,  
**Superbet**

Stephen McGough,  
Senior Lecturer, Data Science,  
**Newcastle University**

James McKinlay,  
Chief Information Security Officer,  
**Barbican Insurance Group**

Dave Palmer,  
Director of Technology,  
**Darktrace**

David Porter,  
Head of Innovation, Security and  
Privacy Division,  
**Bank of England**

Mark St John Qualter,  
Head of Artificial Intelligence,  
Commercial and Private Banking,  
**RBS**

Staffan Truvé,  
Co-founder and CTO,  
**Recorded Future**

Agenda	
08:00	Registration and breakfast networking
09:00	Chairman's welcome
09:10	<b>HR Analytics and the 'Insider Threat' Detection</b> <b>J. Mark Bishop</b> , Professor of Cognitive Computing, Goldsmiths University <ul style="list-style-type: none"> <li>Insider threat: why is it still such a problem and can AI help?</li> <li>Case study: insights into how to use HR Analytics to analyse and assess user behaviour and aid in the cyber-threat detection effort</li> <li>Can AI be used to detect a potential insider threat before it happens?</li> </ul>
09:35	<b>Innovation: information security's worst nightmare?</b> <b>Adam Hembury</b> , Director of Innovation, DLA Piper <ul style="list-style-type: none"> <li>Where do innovation and information security collide?</li> <li>The strategic data questions we face:                             <ul style="list-style-type: none"> <li>Client confidentiality</li> <li>Data ownership</li> <li>Data analytics</li> <li>Artificial intelligence – machine learning</li> <li>Enterprise search</li> <li>Automation</li> </ul> </li> <li>Case study: innovation and its application at DLA Piper</li> </ul>
10:00	<b>The future impact of AI in cybercrime</b> <b>Dave Palmer</b> , Director of Technology, Darktrace <ul style="list-style-type: none"> <li>AI's profound impact on our future internet and its potential to enable digital criminals</li> <li>The complexity of business and protection, and how current defenders are being outpaced</li> <li>Machine learning and advanced mathematics as tools for handling complexity</li> <li>Real life examples and applications of attacks</li> <li>Inevitable rise of data theft and how best to protect yourself</li> </ul>
10:20	<b>EXECUTIVE PANEL DISCUSSION</b> Fake identities, real solutions. AI and the anti-fraud effort <b>Nigel Brown</b> , Lead for Resilient ICT Strategy, Civil Contingencies Secretariat, Cabinet Office <b>Ajwad Hashim</b> , VP Innovation and Emerging Technology, Barclays <b>Kris Blamires</b> , Detective Sergeant, Investigation & Compliance Manager, Metropolitan Police <b>Chiranjit Chakraborty</b> , Data Scientist, Bank of England
10:40	<b>Beyond the anomaly: evolving the intelligence from artificial intelligence</b> <b>Brad Freeman</b> , Head of Threat Analysis, Senseon <ul style="list-style-type: none"> <li>Reducing false positives: why most AI and machine learning technologies don't understand the difference between new or unusual behaviour, and truly malicious attacks</li> <li>Senses: the importance of gathering information across your entire digital estate from networks to devices in one platform</li> <li>Understands: why pioneering AI triangulation algorithms understand threats and build a full picture, accurate and context-rich</li> <li>Visualises: the value of complete visibility and visualisation of your network helps you understand your digital estate and exposes unnoticed vulnerabilities</li> </ul>
11:00	Networking break and refreshments
11:30	<b>Of strategy and security: how AI is affecting the financial services</b> <b>Mark St John Qualter</b> , Head of Artificial Intelligence, Commercial and Private Banking, RBS <ul style="list-style-type: none"> <li>Artificial intelligence strategy. Why AI is so much more than technology</li> <li>What are the risks and impact on security? How do you implement AI strategy while maintaining security?</li> <li>Case study from RBS. How AI is changing the financial services</li> </ul>
11:55	<b>How AI is being used for threat intelligence ... and by attackers</b> <b>Staffan Truvé</b> , Co-founder and CTO, Recorded Future <ul style="list-style-type: none"> <li>AI and in particular machine learning (ML) has become critical for threat intelligence, allowing defenders the opportunity to get early warnings and assessments of upcoming threats</li> <li>We'll describe how AI/ML can be used to produce both threat intelligence and predictive threat analytics</li> <li>We will also show ways that threat actors are taking advantage of AI/ML, like producing more malicious phishing attacks and finding exploitable weaknesses in products</li> </ul>

Agenda	
<b>12:15</b>	<b>Cybersecurity and AI – winning the great game</b> <b>Simon Jenner</b> , Chief Information Security Officer, Booking.com <ul style="list-style-type: none"> <li>• CISOs are now major players in the 'great game': How do you avoid the common pitfalls and how do you win?</li> <li>• What is at stake? How has AI and machine learning changed how we protect our core business assets?</li> <li>• The impact of machine learning and AI on cybersecurity</li> </ul>
<b>12:40</b>	<b>AI: Reasons to Just Say No</b> <b>James McKinlay</b> , Chief Information Security Officer, Barbican Insurance Group <ul style="list-style-type: none"> <li>• The AI bandwagon. And the risks of jumping on it</li> <li>• When every vendor is claiming AI expertise, how do you differentiate?</li> <li>• What could/should you be doing instead?</li> </ul>
<b>13:05</b>	<b>Get your head out of the clouds: clear truths on how AI can help Cloud security</b> <b>Stephen McGough</b> , Senior Lecturer, Data Science, Newcastle University <ul style="list-style-type: none"> <li>• How can AI help secure the Cloud? Case study on how machine learning algorithms can be used in detecting fraudulent behaviour</li> <li>• How AI can help in the efforts against ransomware. How machine learning algorithms can be used to profile both the victims and the perpetrators of ransomware attacks</li> <li>• The need for greater collaboration between industry, private sector and law enforcement if we are to secure connected networks and tackle cybercriminals who are also using machine learning</li> </ul>
<b>13:25</b>	Lunch and networking
<b>14:30</b>	<b>Mallet against machine: regulating the AI landscape</b> <b>Subhajit Basu</b> , Associate Professor, Cyber Law, University of Leeds <ul style="list-style-type: none"> <li>• In order to make automation effective, feeding a vast amount of data is necessary. How do you ensure that this data is used in a secure way and for the right purposes?</li> <li>• What are the legal implications if a machine learning platform gets hacked?</li> <li>• The connected landscape needs greater regulation. But how do you implement this, especially when there is a stigma that 'lawyers don't understand technology and technology professionals don't understand the law'!</li> </ul>
<b>14:50</b>	<b>Placing your bets on machine learning: now a core capability for all functions</b> <b>Finbarr Joy</b> , Group CTO, Superbet <ul style="list-style-type: none"> <li>• Formerly a niche/edge specialisation, ML has become core to how all software is built</li> <li>• Embedding ML as a core function ensures security considerations can be better integrated than ever before</li> <li>• Looking at strategy and implementation scenarios for ML-driven initiatives in support of security</li> </ul>
<b>15:10</b>	<b>EXECUTIVE PANEL DISCUSSION</b>   <b>AI 101: getting artificially intelligent for business</b> <b>Finbarr Joy</b> , Group CTO, Superbet <b>Simon Jenner</b> , CISO, Booking.com <b>Adam Hembury</b> , Director of Innovation, DLA Piper
<b>15:30</b>	Refreshments and networking break
<b>15:50</b>	<b>Errare machinale est: from intelligence to resonance</b> <b>David Porter</b> , Head of Innovation, Security and Privacy Division, Bank of England                     Security leaders are being urged to be innovative and exploit the potential of artificial intelligence technology. But what is the reality behind the AI hype and where can such innovation take us? <ul style="list-style-type: none"> <li>• Innovation through structured experimentation</li> <li>• AI as a securely-harnessed and transparent capability</li> <li>• Better understanding non-compliance and artificial error</li> </ul>
<b>16:10</b>	<b>AI to comply: using technology capabilities like AI in regtech and the compliance effort</b> <b>Anne Godbold</b> , Compliance and Regulatory Change Specialist, Accenture <ul style="list-style-type: none"> <li>• How can new technology capabilities like AI help the compliance effort</li> <li>• Case study: Using AI provided by a regtech to test and deploy an innovative financial crime surveillance solution</li> <li>• How to utilise these new capabilities to support wider compliance use-cases</li> </ul>
<b>16:30</b>	<b>People, policy, processes. Lessons in data governance, compliance and AI</b> <b>Dilshad Hussain</b> , CEO, Universal Data Protection <ul style="list-style-type: none"> <li>• Data Governance &amp; GDPR</li> <li>• Improve Business and IT collaboration in terms of compliance</li> <li>• Transformation programmes including digital, machine learning systems and AI. How can they balance this with compliance and regulations</li> </ul>
<b>16:50</b>	Closing remarks
<b>17:00</b>	Drinks reception
<b>18:00</b>	Conference close