

Presentation by

Dr. Phil Legg

Associate Professor in Cyber Security

Security Data Analytics and Visualisation

11: Future Directions

Date: Autumn 2019



Course Summary and Future Directions



... Analytics is more relevant than ever

What do we automate, and what do we do ourselves?



Trust in analytics? Human-machine teaming

How do analytics scale in the modern world?



What have you learnt so far?



Anything you wish we had studied in more detail?



Anything you wish we had skipped over?



What do **you** think is the future of analytics and visualisation?



What's the future for analytics and visualisation?



Coursework Submission

- Portfolio of all 3 exercises submitted to Blackboard
 (ZIP file of 3 HTML/PDF documents)
- In-lab sign off **required** for worksheet 1 and 2



A brief revision guide

- Exam has 4 questions
- Part A: 1 is compulsory (30 marks)
- Part B: 3 questions, chose 2 of them (10 marks each)
- If you do all questions in Part B only your two highest scoring answers will count towards your grade
- There is no programming required for the exam
- Questions typically involve written answers, calculation, or visual sketches.
- DO bring an approved calculator, and DO bring pencils etc. for sketching



A brief revision guide

- Topics may include:
 - From data to features making comparable features over time.
 - Form of visualisation and how they may be useful for security
 - Proposal of suitable visualisation designs for data analytics
 - Applications of security analytics, such as insider threat detection and malware analysis
 - Supervised / un-supervised machine learning techniques
 - Topics covered in the worksheets (including how to calculate and implement these)



Module Feedback on Blackboard



Questions?



Thank you

(and good luck!)