

Closing Remarks from General Co-Chairs

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A Review of SecureComm 2021

Socio-psychological challenges?



- The number of attendees of different sessions varied over time, mostly ranging from 10 to 30.
- Some authors could not attend or chose not to attend for the Q&A session of their paper.
 - This year we did not have a "no show" penalty to appreciate the difficulties authors may have during the COVID-19 pandemic.
- Some authors were late for the Q&A session of their paper (potentially a time zone confusion issue).
- The audience could be more active in asking questions.
- Many must have not been able to attend some sessions due to other commitments.
- ⇒ Physical conferences are important!

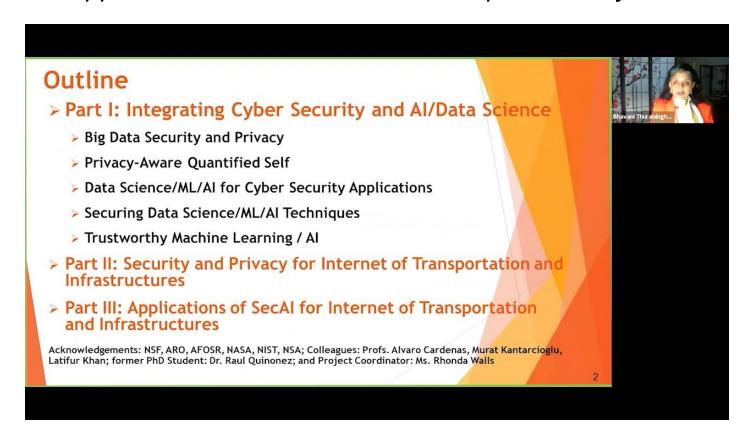
A technical challenge?



- **ZOOM** vs **Li**i
 - On Day 3 (8th September Wednesday) many participants experienced problems connecting to the Zoom meeting of the Conference.
 - We decided to move to MS Teams as an alternative platform for the second half of the day.
 - Fortunately, this worked well.
- → Lesson learned for future online conference organisers
 - Do not depend on a single teleconferencing platform.
 - Make a backup plan!

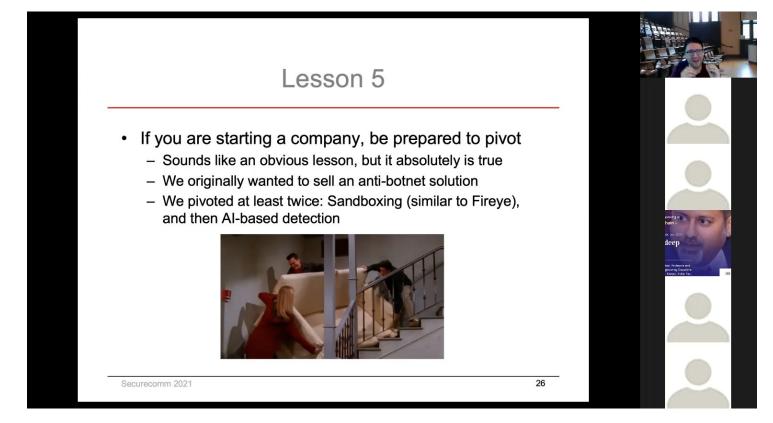


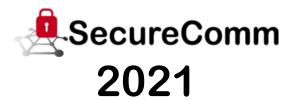
- Keynote speaker I
 - **Bhavani Thuraisingham** (University of Texas at Dallas, USA): Integrating Cyber Security and Data Science/Artificial Intelligence with Applications in the Internet of Transportation Systems





- Keynote speaker II
 - **Engin Kirda** (Northeastern University, USA): *Transitioning* academic research into industry: Lessons, experiences, the good and the ugly





- Panel coordinator and panelists
 - Sandeep K. Shukla, IIT Kanpur, India; Shlomi Dolev, Ben Gurion University, Israel; Charity Wright, Recorded Future, USA; Tom Winston, Dragos, Inc., USA
 - Topic: Privacy vs Security Trade-off: Needs for Balance, Ethics and Regulatory Framework





Session chairs

- Anyi Liu, Oakland University, USA; Sanjay Bhattacherjee, University of Kent, UK; Giovanni Apruzzese, Universität Liechtenstein; Hervé Debar, Télécom SudParis, Institut Mines-Télécom, France; Kaitai Liang, TU Delft, The Netherlands; Gregory Blanc, Télécom SudParis, Institut Polytechnique de Paris, France; Moti Yung, Google Inc., USA / Columbia University, USA; Virginia Franqueira, University of Kent, UK; Sven Dietrich, City University of New York, USA; Kalpana Singh, IRT SystemX, France; Sokratis K. Katsikas, Norwegian University of Science and Technology, Norway; David Arroyo, Institute for Physical and Information Technologies (ITEFI), Spanish National Research Council (CSIC), Spain; Budi Arief, University of Kent, UK; Roger A. Hallman, Naval Information Warfare Center (NIWC) Pacific & Dartmouth College, USA; Ali Ismail Awad, Luleå University of Technology, Sweden; Gareth Howells, University of Kent, UK



- PhD student helpers (all with the Cyber Security for Society (iCSS)

- Ali Raza (also with University of Lille in France for a dual-award PhD study)
- Enes Altuncu
- Matthew Boakes
- Joseph Kearney
- Pooja Khanna
- Keenan Jones
- Nandita Pattnaik
- Jamie Pont
- Yichao Wang



- Staff of EA
 - Conference Manager:
 - Aleksandra Sledziejowska (2020-21)
 - Viltare Platzner (2021, covering Aleksandra when she was on leave)
 - Lukas Skolek (2019-20)
 - Publications Coordinator: Lucia Sedlarova
 - Venue Manager: Katarina Srnanova
 - + Others who supported the Conferences from EAI



- Repeated thanks to
 - Members of the organising committees
 - Members of the TPC
 - Workshop co-chairs
 - All reviewers
 - Members of SecureComm Steering Committee
 - Authors
 - Participants
 - ...



Looking Forward

Welcome to Kent in 2022



- In addition to SecureComm 2022, please also consider submitting to and attending the following conference to be held at the University of Kent:
 - 5-8 September 2022: ICICS 2022 (24th International Conference on Information and Communications Security)
 - Website: https://icics2022.cyber.kent.ac.uk/
 - Tentatively July 2023: **IFIP HAISA 2023** (17th IFIP International Symposium on Human Aspects of Information Security & Assurance)
 - More events at https://research.kent.ac.uk/cyber/events/







Academic Centre of Excellence In Cyber Security Research



iCSS: an ACE-CSR in the UK



- ACE-CSR = Academic Centre of Excellence in Cyber Security Research
 - 2015-2017 and 2018-2022
- Currently 19 ACEs-CSR in the UK
 - 15 ACEs-CSR between 2015-2017

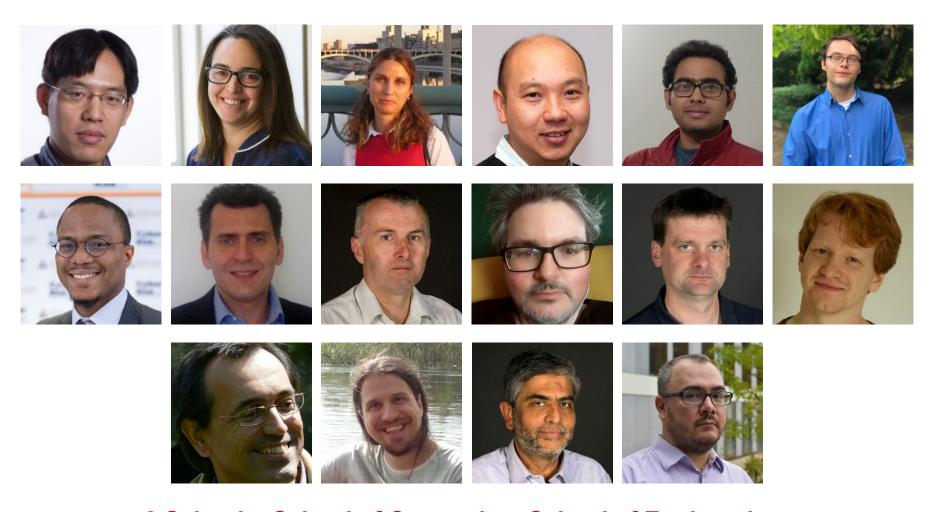






People: Core Members (16)

SecureComm 2021



3 Schools: School of Computing, School of Engineering, School of Politics and International Relations

People: Associate Members (59)



- 1. School of Social Policy, Sociology and Social Research: 15
- 2. School of Computing: 15
- School of Psychology: 8 Interdisciplinarity!
- 4. School of Engineering: 5
- Kent Business School: 4
- Kent Law School: 4
- School of Politics and International Relations: 2
- 8. School of Mathematics, Statistics and Actuarial Science: 2
- School of Physical Sciences: 1
- 10. School of Economics: 1
- 11. School of Anthropology and Conservation: 1
- 12. Kent School of Architecture and Planning: 1

Research: 4 main themes



1. Socio-technical Security and Privacy

- Human factors and beyond (psychological, legal, economic, cultural and societal aspects)



2. Authentication and Authorisation

- User and device authentication, access control, authorisation, identity management, ...



3. Communication and Network Security

- Cloud security, network security protocols, IoT security, RFID security, ...



4. Security Testing and Verification

- Automated vulnerability detection, malware analysis, formal methods for security, ...



Research: 4 cross-cutting topics



1. Al and Security

 Applications of AI technologies (data mining, machine learning, visualisation) to cyber security; security of AI models and systems



2. Digital Forensics and Online Harms

- Digital forensics, cybercrime, online child protection, false information, ...



3. Information Hiding

- Steganography/steganalysis, watermarking, ...



4. Quantum Cyber Security

 Quantum-resistant cyber security systems based on quantum mechanics



Beyond research



- Innovation activities
- Education-related activities
 - Degree programmes
 - MSc Cyber Security

- ...



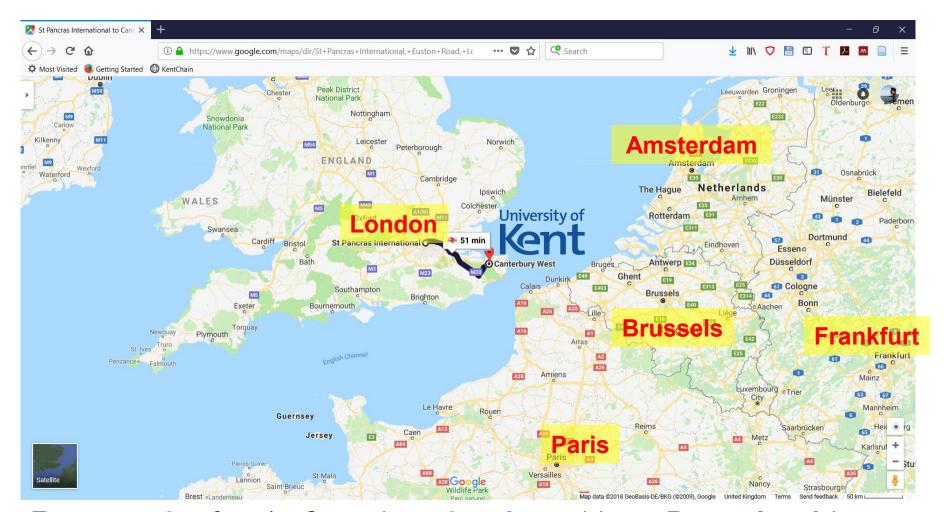
- Cyber-related modules
 - Some shared across schools
- Extra-curricular activities for students
- Wider activities
 - Outreach, professional training, awareness, public engagement, media communication, ...





Where is University of Kent?





Fastest trains from/to Canterbury: London: ~1 hour; Brussels: ~3 hours;

Paris: 3-4 hours; Amsterdam: 5-6 hours; Frankfurt: 6-7 hours

Basic information



- Founded in 1965
- A plate glass university
 - Others: University of Sussex (1961), University of York (1963), University of East Anglia (1963), Lancaster University (1964), University of Essex (1964/5), University of Warwick (1965), ... University of
- The UK's European University
 - UK: **Canterbury** and Medway
 - Europe: Paris (France) and Brussels (Belgium)
- Student numbers: ~20,000

The UK's

Canterbury campus



- The main campus of the University

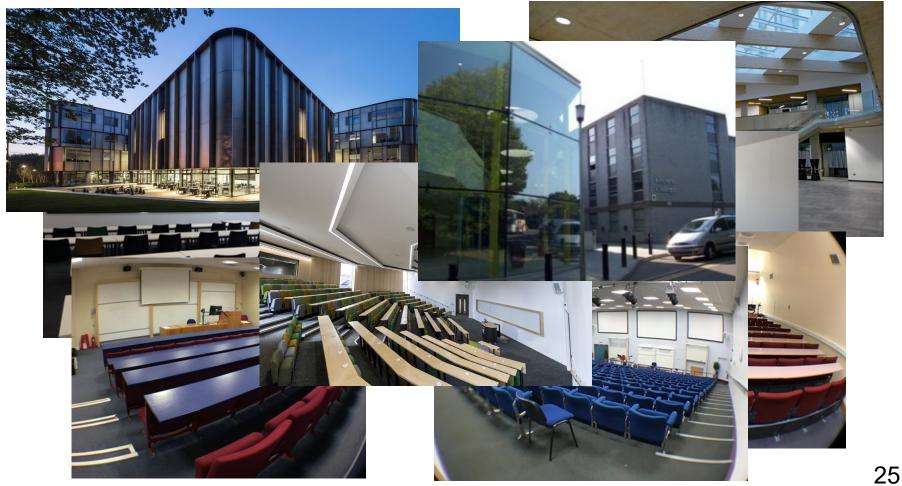




Conference facilities



- Selected buildings and rooms

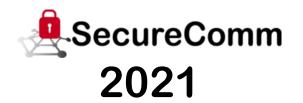


On-campus accommodation





On-campus dining options







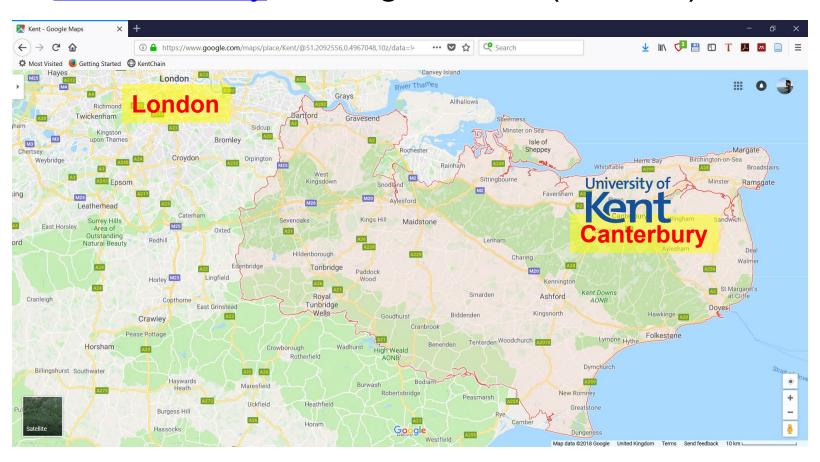




Kent County: "Garden of England"



A "home county" = Neighbour of (Greater) London



(City of) Canterbury





- A UNESCO World Heritage Site
 - Canterbury Cathedral: the seat of the Church of England, one of the oldest and most famous Christian structures in England, founded in 597, completely rebuilt from 1070 to 1077
 - St Augustine's Abbey: marking the rebirth of Christianity in southern England, founded shortly after 597 by St Augustine
 - St Martin's Church: the oldest parish church in continuous use and the oldest church in the entire English-speaking world, founded before 597

(City of) Canterbury





- A UNESCO World Heritage Site

- Canterbury Cathedral: the seat of the Church of







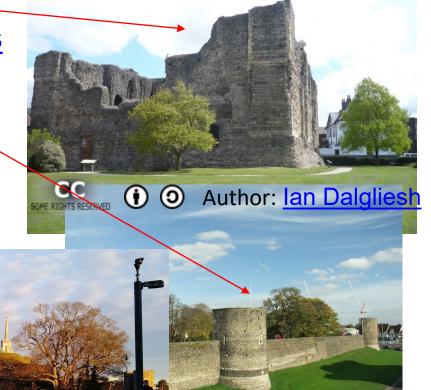
(City of) Canterbury



Author: pam fray

Other landmarks

- Canterbury Castle
- West Gate + Westgate Parks
- Canterbury city walls
- Dane John Gardens
- Great Stour (river)



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Other famous places @ Kent



 White Cliffs of Dover + Dover Castle: 30-40 mins by car and train from Canterbury



Other famous places @ Kent



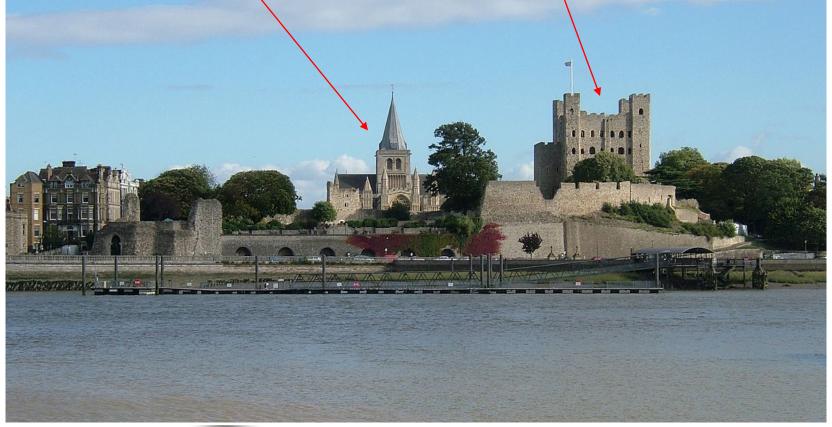
Leeds Castle: ~30 mins by car from Canterbury



Other famous places @ Kent



Rochester Cathedral + Rochester Castle: ~40 mins by car from Canterbury







Thanks for attending SecureComm 2021!