Philosophy, Politics and Economics of Security and Privacy (COMP0063)

Description

Aims:
Upon completion of the course the students are expected to be: aware of the conceptual foundations of security policy and technology and their role in delivering robust, reliable systems; specialists in understanding the political context within which security policy and its implementation is situated; specialists in understanding the design and implementation of security policy from the perspective of economics, including ideas and tools from areas such as utility theory, game theory, and portfolio theory.

Learning outcomes:
On successful completion of the module, a student will be able to:
1. Understand concepts and philosophy of security and privacy, including:
   - declarative and operational concepts;
   - the relationships between security and privacy;
   - the relationships between people, policy, and systems;

2. Understand politics of security and privacy, including:
   - the perspectives of individuals, companies, and governments;
   - international relations, strategy, cyber-conflict;
   - understanding tensions in policy and legislation;

3. Understand economics of security and privacy, including:
   - utility, incentives, public goods, externalities and internalities, and trade-offs;
   - games in security and privacy;
   - using models to understand policy, technology, and decision-making;

4. Develop conceptual analyses of systems and policies in socio-economic contexts;

5. Assess the consequences and value of models of security and privacy;

Key information

Year: 2019/20
Credit value: 15 (150 study hours)
Delivery: PGT L7, Campus-based
Reading List: View on UCL website
Tutor: Dr Tristan Caulfield
Term: Term 1
Timetable: View on UCL website

Assessment

- Coursework: 25%
- Coursework: 35%
- Coursework: 40%

Find out more

For more information about the department, programmes, relevant open days and to browse other modules, visit ucl.ac.uk

Disclaimer: All information correct as of June 2019. Please note that aspects of the module may be subject to change. UCL will make best efforts to inform applicants of major changes.
6. Organize and communicate complex ideas and arguments in precise, accessible written form;

Content:
The module covers in depth major issues in computer, information, and general security related to the following perspectives:
- Conceptual and philosophical foundations of security policy and its implementation in systems’ contexts;
- The political context within which security policies and their implementations are situated, including national and international security issues and the relationships between individuals, companies, and governments;
- The design and implementation of security policy from the perspective of economics, including ideas and tools from areas such as utility theory, game theory, and portfolio theory;

Requisites:
In order to be eligible to select this module, a student must be registered on a programme for which it is a formally-approved option or elective choice AND must also select COMP0054.