

CO643 – Week 1

Module Overview

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Lecturer

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Outline

- Law and regulation: GDPR (data privacy) and other UK laws regarding computer systems
- Ethical, privacy and legal problems surrounding social networks and applications
- Professional responsibilities for developing usable systems with security and privacy implications

Learning Outcomes

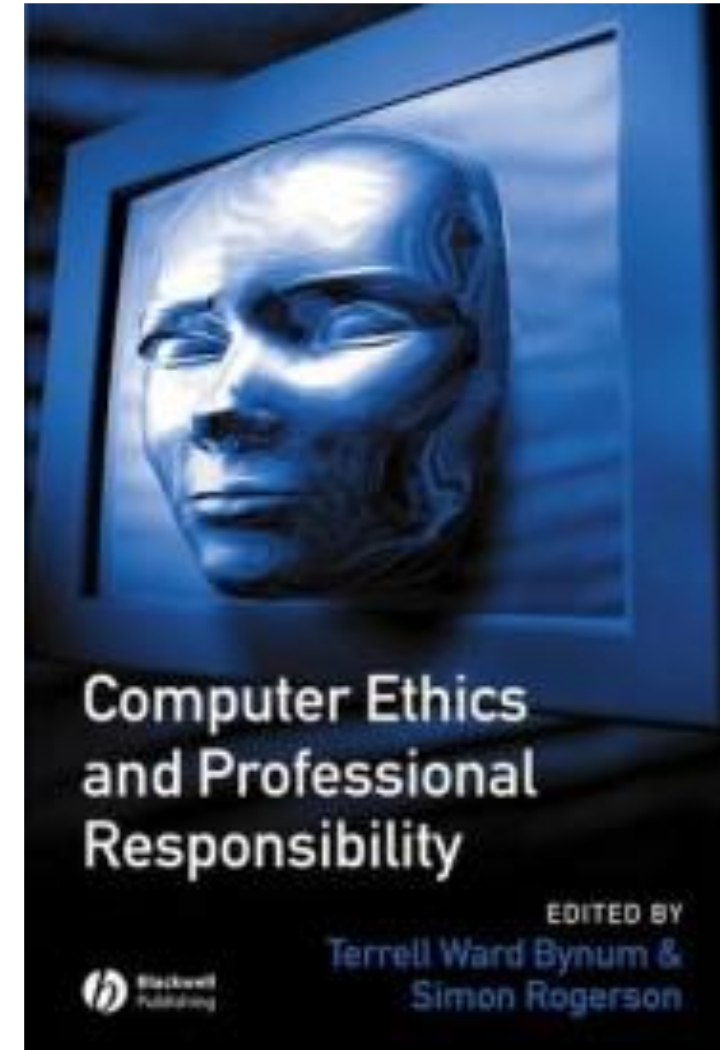
- After this module, you will be able to
 - Apply professional codes of practice for developing computing systems
 - Have a systematic understanding of basic legal processes
 - Develop informed judgments about whether specific actions are ethical and/or legal
 - Understand usability issues regarding existing security and privacy solutions
 - Review important problems and approaches for the modern Web (including mobile devices)

Module Team

- Özgür Kafalı [Convenor]
- Rogério de Lemos
- Omid Hajilou
- Niloufar Hajilou
- David Waterson [Seminar supervisor]

Textbook

- Bynum and Rogerson -
“Computer Ethics and
Professional Responsibility”
- ISBN 978-1855548459
- Buy if you can - many copies in
the library



How the Module Works

- 50% coursework [Autumn term]
 - 60% seminar performance and a portfolio of seminar work
 - 40% a group Wiki
- 50% exam [Summer term]

Seminars

- 8 seminars in total
- Weeks 3-5, 7-11
- 4 seminar groups
- All groups are supervised by David

Seminar Work

- Lots of reading: You will be asked to undertake reading each week for seminars
- Follow current affairs: Tech news articles
- Actively participate in seminars
- Keep a log of the work you do for the seminars (submitted as a portfolio later)
- Develop a Wiki on your chosen topic as part of a group

Seminar Roles

- Seminar groups will be divided into subgroups
- Each week, each subgroup will be given a specific role in the seminar, on a rotating basis
- The sub-group schedule will appear on Moodle
- The roles are:
 - Preparer
 - Facilitator
 - Reporter
 - Participant

Seminar Roles: Preparer

- Carefully reads the seminar material
- Leads discussion on the topic
- Poses questions for further thought

Seminar Roles: Facilitator

- Keeps the seminar going
- Ensures the discussion flows and that people get a chance to speak

Seminar Roles: Reporter

- Has to submit a summary of discussion
- As a Wiki on Moodle, the Monday after the seminar
- Others can refine this too

Seminar Roles: Participant

- Reads the seminar material beforehand
- Takes part in the discussion on the topic

Seminar Topics

- Week 3: Morals of autonomous cars
- Week 4: Deepfake: AI for good?
- Week 5: Informatics & professional responsibility
- Week 7: IoT, smart/stupid devices, and privacy
- Week 8: Harnessing AI for the Earth
- Week 9: Unique ethical problems in IT
- Week 10: Social networks & fake news
- Week 11: AI, GDPR and health data

Wiki

- Same subgroup as in seminars
- Topic selection:
 - List will appear on Moodle (Week 7)
 - Give 3 preferences for your subgroup
- Writer of text does the upload
- You need to check each others' contributions
- Deadline: Week 10

Wiki Content

- A narrative of the case study
- An analysis with potential computing implications (both positive and negative)
- Questions for further thought
- References

Upcoming Lectures – Week 1

- “The Computer Misuse Act” by Rogério

Upcoming Lectures – Week 2

- “Computer Ethics” by Özgür

Upcoming Lectures – Week 3

- “Intellectual Property Rights” & “Patents” by Rogério

Upcoming Lectures – Week 4

- “Professional Organisations” by Omid
- “Whistleblowing” by Niloufar

Upcoming Lectures – Week 5

- “Social Computing” by Özgür

Upcoming Lectures – Week 7

- “Open Source” by Rogério
- “Sustainable Computing” by Özgür

Upcoming Lectures – Week 8

- Privacy by Niloufar & Omid

Upcoming Lectures – Week 9

- “Usable Computing” by Özgür

Upcoming Lectures – Week 10

- “Privacy” & “Cryptography” by Omid

Upcoming Lectures – Week 11

- “Web/Mobile Computing” by Özgür