# SICSA'17 PhD Conference Ethical, Social, and Professional Issues Workshop Summary

## 1. Introduction

#### 1.1. Topics

Ten socio-technical topics had been prepared for the participants to brainstorm and discuss during the workshop. The topics were: 1) robotic personhood, 2) automated profiling, 3) public safety vs individual privacy, 4) personal filter bubbles, 5) nanotechnology, 6) cyborgs and bionic people, 7) artificial companionship and sex, 8) contemporary socialisation, 9) artificial intelligence filtering of social media postings, 10) robotic warfare. Online questionnaire had been prepared using Zoho questionnaires. The participants had been asked to vote on maximum of 3 topics of their interest and answer one question associated with the selected topic. The questionnaire had been live for approximately one month and participants were notified three times to select their prefered topics for the workshop. After the end of the voting time, twenty one responses had been collected.Those topics selected were: Al filtering of social media postings; contemporary socialisation; personal filter bubbles; and public safety vs individual privacy.

### 1.2. Workshop Groups

Participants were grouped together based on their preferred topics. Organisers decided to select four topics for discussion at the workshop based on the level of interest in the topics and a more or less even split on answers to the main question of the topic. Participants were allocated to groups before the workshop with each group including 3 or 4 participants.

# 2. Al Filtering of Social Media Postings

### 2.1. Introduction to the topic

Al mining of postings in social media could be used to identify abusive, illegal or misleading ("fake news") content. Mark Zuckerberg appears to be putting his faith in AI to address these

issues on Facebook as manual monitoring is clearly not working and almost certainly infeasible. How wise is this? What unintended consequences might arise?

### 2.2. Preliminary Survey

The main question was "Do we want censorship by AI?" During the preliminary stage of dividing into groups, a survey was sent out to find out the participant's attitudes towards the proposed topics. Out of 10 answers: 50% answered Yes while 50% answered No.

### 2.3. Workshop Questions

In the end, is filtering by AI socially acceptable? Subquestions were provided to help stimulate discussions:

- i. Is any form of filtering of social media actually acceptable at all?
- ii. What about freedom of speech?
- iii. Who decides which topics require filtering and which not?
- iv. What should be filtered? People, posts, type of content?
- v. Is filtering out unacceptable content by AI actually possible?
- vi. How "correct" does it need to be for it to be acceptable (Type I and Type II errors)?
- vii. What other mechanisms might be used to filter out unacceptable content?

### 2.4. Discussions

Rather trust a human-being, than a machine. Lack of trust in the machine. Machine filtering of social media postings is inadequate due to the complexity of the ?rules?, associated with the filtering of social media postings. For example, context, attached to the post is crucial in deciding whether the post should be flagged or not. Therefore, flagging of the posts in question by peers using scalar value is more appropriate. While the peer-review could be the solution to the filtering problem, the reviewers must not dictate what is considered to be the 'truth' and what is not. Alternatively, purveyors of news could indicate their trusted sources and that other truths are available.

### 2.5. References

- 1. <u>https://www.facebook.com/notes/mark-zuckerberg/building-global-community/10154544</u> 292806634
- 2. <u>https://www.facebook.com/communitystandards</u>

# 3. Contemporary Socialisation

#### 3.1. Introduction

People are social animals. Being social largely consists of sharing the information within a society. As societies become globalised, sharing is becoming borderless. Social networks, dating, crowdsourcing, and lifestyle applications create a space for exchange of information and meeting like-minded people. There is an apparent demand for much faster and efficient ways of sharing information through hand-held and wearable devices. With the help of contemporary socialisation methods, does it become easier for antisocial individuals to get into contact with other people or do these methods distance them even further?

### 3.2. Preliminary Survey

During the preliminary survey, "Is privacy likely to be taken more seriously by the public in the future?" was asked and out of the 7 answers, 71% said yes and 29% said no

### 3.3. Workshop Questions

Is privacy likely to be taken more seriously by the public in the future? There were guiding subquestions provided for the participants to consider:

- i) How important will personalisation of services become and how much privacy will people sacrifice to take advantage of it?
- ii) Are people likely to prioritise the benefits of location-based services over potential intrusions into their privacy?
- iii) How much data from wearable monitoring devices are people likely to disclose and share with others?
- iv) Should examples of the potential consequences and regrets of disclosure be more readily available to people?
- v) Should services we use remove shared data on request?

#### 3.4. Discussions

Sharing a bit of extra information about ourselves makes our life easier through, for example, targeted advertising, but it also poses threats. Lately, concerns about misused personal data has been increasing, and thus the awareness of privacy has been increasing and will continue to do so. However, it does not mean that the understanding of privacy concerns will rise alongside the concerns themselves. Alertness on behalf of the general public is required to raise the understanding. How to raise that alertness? Who is responsible for protection of

personal data? Is it users themselves, companies, or governments? In case if governments would implement policies that would put restrictions on companies on how the data could be stored and used, who would ensure that the policies are being enforced? Who will check the system's code? Users should have the right to be forgotten on request. Unfortunately, it requires additional effort to check whether the requested information has actually been removed and how to enforce the removal on request? Transparency? What is not sensitive now, may become sensitive later, and what is not sensitive here may be sensitive elsewhere. What we say is what we think and what we believe in and who we are. This is also sensitive and this may change over time, but what has been shared doesn't disappear.

### 3.5. References

- 1. https://en.wikipedia.org/wiki/Social\_networking\_service#Application\_domains
- 2. <u>https://www.thestreet.com/story/13011778/1/mark-zuckerberg-the-future-of-facebook-will</u> <u>-be-wearable.html</u>

# 4. Personal Filter Bubbles

### 4.1. Introduction

One of the great strengths of the digital world is its ability to bring people together to share ideas and increase social cohesion. Personalisation of systems and services in order to adapt them to a user's preferences and so avoid inundating them with irrelevant or unwanted content or alerts has obvious benefits. However there is increasing concern that, as like-minded individuals gather together, this personalisation can lead to increased online social separation with users inhabiting "filter bubbles" where points of view contrary to their own do not get presented to them.

#### 4.2. Preliminary Survey

The question was posed: "Should we try to assist like-minded individuals to discover contrary points of view?" To which 100% of the seven respondents aid yes.

### 4.3. Workshop questions

During the workshop, the guiding question was "How should we avoid them filter bubbles?" There were subquestions provided as well:

i) How much are you personally prepared to sacrifice in order to disrupt filter bubbles?

- ii) Allowing views that you don't hold to be introduced to your "timeline"?
- iii) Allowing your views to be shared with groups who are unlikely to agree with them?
- iv) What other mechanisms could be deployed to disrupt filter bubbles?

#### 4.4. Discussions

For the content providers, personal filter bubbles could be ?avoided/prevented? with the help of the awareness campaigns. One of such campaigns for web browsers "Pop your bubble" could call for the reset of browser data (cookies, history, etc.). The positive side of this campaign would enable anonymous web browsing, while the downside would be the loss of cookies that may act as loyalty cards in the browser and offer cheaper deals to the users.

Search engines, such as Google, could offer a setting 'BALANCE=[0..1]' to enable the search for unbiased views.

For the user-generated data, service providers could include a "Bubble Pop" button to expose the user to the alternative views or content.

#### 4.5. References

- 1. <u>https://www.facebook.com/notes/mark-zuckerberg/building-global-community/10154544</u> 292806634
- 2. Personalization and the Filter Bubble <u>https://socialmediaandpolitics.wordpress.com/2013/09/22/personalization-the-filter-bubbl</u> <u>e/</u>
- 3. The Tragedy of the Internet https://socialmediaandpolitics.wordpress.com/2013/09/16/the-tragedy-of-the-internet/

# 5. Public Safety vs Individual Privacy

### 5.1. Introduction

There has been much debate recently about the extent to which those charged with protecting the safety of the public should be able to intrude on personal privacy. End-to-end encryption permits secure communication between anybody and everybody. It can therefore be used for good or ill. The so-called "Snooper's Charter" requires ISPs to maintain records of the IP addresses that their customers access so that the security services can track the connections of persons of interest. The identities of the persons of interest are not known when the records are created so everybody's connections are recorded. How do we strike a balance between national

security and public safety on the one hand and personal privacy on the other? What are the dangers of leaning too far in one direction or the other?

### 5.2. Preliminary Survey

During the survey, the question "Should the security services be provided with backdoors into end-to-end encryption systems?" was posed. Out of 13 respondents, 69% said yes while 31% said no.

### 5.3. Workshop

Should the security services be provided with backdoors into end-to-end encryption systems? The following subquestions were provided to stimulate group discussion.

- i) How is monitoring justified in a democratic setting?
- ii) Should we prioritise cybercrime prevention and national security over personal privacy?
- iii) If we need to strike a balance how far should we go?
- iv) Should we draw the line at the actual content of communications?
- v) What accountability/authorisation mechanisms should be deployed to regulate the security services?

### 5.4. Discussions

What is exchanged between the user and the service provider is officially agreed upon between the two parties. Users are ignorant or careless of the interactions that happen between the service providers and the 3rd parties. Public safety and individual privacy lie on the opposite sides of a spectrum, it is not binary. The government should be aware of the interactions between the service providers and the 3rd parties and should judge how 3rd parties could use the data, acquired from the service providers. Some data are more sensitive than other data, thus there should be different access permissions for different types of data with different granularities for the same data. When the security is in question, the government should be able to access the user data from the service providers on request. Access to the more sensitive data should require special authorisation (i.e. court warrant). Is there a chance that such policies will be interpreted differently in different countries?

### 5.5. References

- 1. Investigatory Powers Act 2016 (The "Snooper's Charter") https://en.wikipedia.org/wiki/Investigatory Powers Act 2016
- 2. End-to-End Encryption https://en.wikipedia.org/wiki/End-to-end encryption

- WhatsApp Messaging <u>https://www.cnet.com/news/uk-wants-access-to-westminster-attackers-whatsapp-messa</u> <u>ges/</u>
- 4. FBI-Apple Encryption Dispute <u>https://en.wikipedia.org/wiki/FBI%E2%80%93Apple\_encryption\_dispute</u>

# 6. Other Topics Preliminary Survey Results

Topics, that were not selected by the organisers due to the lack of interest are: 1) robotic personhood, 2) automated profiling, 3) nanotechnology, 4) cyborgs and bionic people, 5) artificial companionship and sex, and 6) robotic warfare.

For the robotic personhood topic, the question "Should robots be given rights, so that they could be held accountable for any malicious decision they make against humans or other robots?" was posed and 4 responses collected with equal "Yes"/"No" split. Automated profiling participants were asked "Is the UK's current guidance that individuals must be able to obtain human intervention adequate protection against the consequences of misclassification?" with 3 responses, 67% saying "Yes" and 33% saying "No". For the nanotechnology topic, the question "Would it be possible to stop the self-replicating process getting out of hand once the potential for "grey goo" is detected?" was asked with 4 answers and an equal split in opinions. Cyborgs and bionic people topic collected 4 answers with the equal split in opinions to the question "Will such modifications lead to a more unequal society?". Artificial companionship and sex topic gathered 4 responses to the question "Will humans choose artificial companions over real ones?" with everyone answering positively. Robotic warfare topic asked participants the question "Is robotic warfare inevitable?", gathering 3 responses with 67% answering "Yes" and 33% answering "No".

# 7. Conclusion

To conclude, each group came up with interesting ideas of how to deal with particular socio-technical problems. The group brainstorming about AI filtering of social media postings focussed on manual human filtering as a possible step forward towards a more comprehensive filtering system that is less reliant on AI. The group assigned the topic of contemporary socialisation focussed on privacy issues and whose responsibility it is to protect your personal data. The group interested in personal filter bubbles focused on awareness and proposed a concept of erasing preferences/filter bubbles called "bubble popping." The final group considered public safety vs individual privacy and focussed on authorisation for intrusions. All in all, the workshop facilitated discussion on four controversial socio-technical topics and the groups were able not only to brainstorm the issues, associated with these topics, but also propose a number of practical resolutions. Further workshops will explore topics in more detail.