

Notification Form 323520

Last updated

04.12.2020

Which personal data will be processed?

- Date of birth
- Email address, IP address or other online identifier
- Background data that can identify a person
- Other data that can identify a person

Type of data

You have indicated that you will be processing background data that can identify individual persons, describe which

Past programming experience and education may allow one to personally identify the programmers.

You have indicated that you will be processing other data that can identify individual persons, describe which

The layout and style of partial or complete programs may allow one to personally identify the programmers.

Will you be processing special categories of personal data or personal data relating to criminal convictions and offences?

No

Project information

Project title

Mobility-Oriented Programming - A Programming Paradigm for Distributed Mobile Clouds

Project description

Mobility-Oriented Programming is a programming paradigm where an application

is structured in terms of resource-aware, mobile components, subject to programmer-specified mobility strategies and constraints. Such a programming paradigm seems particularly well-suited for emerging distributed mobile cloud infrastructures (e.g., Multi-Access Edge Computing). The aim of this project is to investigate in-how-far mobility-oriented programming can be an eloquent programming paradigm for distributed mobile clouds. To this end, we will study how human programmers fare when given distributed mobile cloud programming tasks, but asked to complete them using different programming paradigms.

Explain why the processing of personal data is necessary

For some of the collected data, it is important to the correctness of the results of the experiment that participants provide correct, personal data:

- Date of birth and personal background data (e.g., programming experience and education) will be used to evaluate how representative our sample population is of the target population.
- Partial and complete programs written by study participants will be collected to evaluate how well they solve the given programming tasks. Although automated grading, executed on the participant side, can allow us to collect less data; the quality of automated grading is questionable, and so is the resulting degree of anonymity, unless the grades reported to us are overly summative.

For other data, participants may (and may well be encouraged to) provide misleading, non-personal data:

- IP address and online identifiers will be collected because hiding them from us requires non-basic technical skills on the part of the participants (e.g., use of a VPN). This may discourage participation in the study among a part of the target population. Collecting IP addresses also allows us to police access to the service where the study is being run, and avoid abuse of the service.
- IP addresses and online identifiers (if honest) can be indicative of the geographic location of the participants. No further location information will be requested, but it would be misleading to say that geographic location IS NOT collected, when IP addresses are.
- E-mail addresses are collected in order to communicate with the participants throughout the experiment, including reporting on the results of the experiment. It is not important that the e-mail address is personally identifiable.

External funding

Type of project

Research Project

Data controller

Data controller (institution responsible for the project)

Universitetet i Oslo / Det matematisk-naturvitenskapelige fakultet / Institutt for informatikk

Project leader (academic employee/supervisor or PhD candidate)

Oleks Shturmov, oleks@oleks.info, tlf: +4551445053

Will the responsibility of the data controller be shared with other institutions (joint data controllers)?

No

Sample 1

Describe the sample

Programmers interested in learning programming paradigms for distributed mobile clouds.

Recruitment or selection of the sample

After initial spreading of a sign-up form via social media, a sample of those who sign-up will be selected for further participation.

Age

18 - 65

Will you include adults (18 years and over) who do not have the capacity to consent?

No

Personal data relating to sample 1

- Date of birth
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- Other data that can identify a person

How will you collect data relating to sample 1?**Online survey****Legal basis for processing general categories of personal data**

Consent (art. 6 nr. 1 a)

Web-based experiment

Legal basis for processing general categories of personal data

Consent (art. 6 nr. 1 a)

Information for sample 1

Will you inform the sample about the processing of their personal data?

Yes

How?

Written information (on paper or electronically)

Third Persons

Will you be processing data relating to third persons?

No

Documentation

How will consent be documented?

- Electronically (email, e-form, digital signature)

How can consent be withdrawn?

By clicking a link provided in the in the

How can data subjects get access to their personal data or have their personal data corrected or deleted?

They can contact Oleks

Total number of data subjects in the project

100-999

Approvals

Will you obtain any of the following approvals or permits for the project?

Processing

Where will the personal data be processed?

- Computer belonging to the data controller
- Mobile device belonging to the data controller

Who will be processing/have access to the collected personal data?

- Project leader

Will the collected personal data be transferred/made available to a third country or international organisation outside the EU/EEA?

No

Information Security

Will directly identifiable data be stored separately from the rest of the collected data (e.g. in a scrambling key)?

No

Explain why directly identifiable data will be stored together with the rest of the collected data**Which technical and practical measures will be used to secure the personal data?**

- Personal data will be anonymised as soon as no longer needed
- Multi-factor authentication
- Restricted access

Duration of processing

Project period

01.12.2020 - 30.11.2021

Will personal data be stored after the end of the project?

No, the collected data will be stored in anonymous form

Which anonymization measures will be taken?

- Personally identifiable information will be removed, re-written or categorized
- The identification key will be deleted

Will the data subjects be identifiable (directly or indirectly) in the thesis/publications from the project?

No

Additional information
