



## Emergent Mobile App Selection

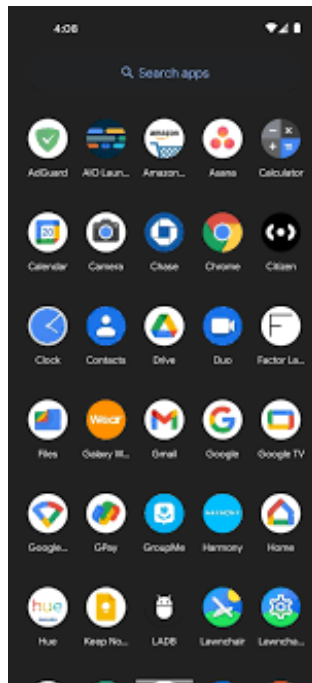
- An European Master Team Project in Cooperation with Babeş-Bolyai University Cluj

Supervisor: Nils Wilken

Reviewer: Dr. Christian Bartelt

## Problem

The average modern smartphone user has installed around **80** different apps.



→ **Problem:** It is hard to keep track of all apps you have installed and where they are located.

## Goal

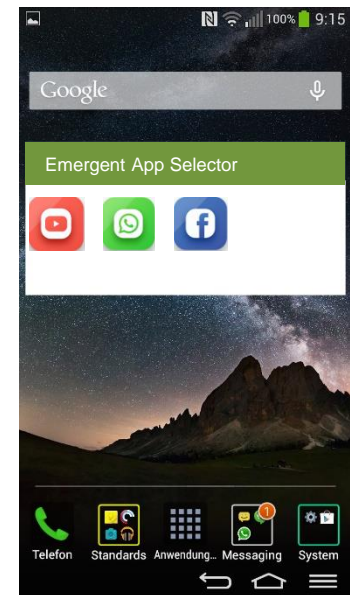
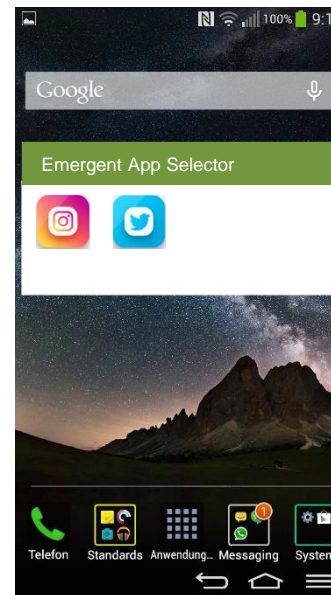
Gain hands-on experience with implementing Android apps in combination with current AI concepts in the area of emergent, context-aware systems

## Problem

It is hard to keep track of all apps you have installed and where they are located.

## Task

- Develop an Android application which:
  - Automatically detects the current context, activities, and goals of the user
  - Provides a widget that displays only the apps that are relevant in the recognized situation

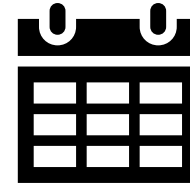


## Technical Environment - Overview



## Organization

- Studies in Software Engineering and/or Data Science
- Language: German/English
- Timeframe (tentative): 13.09.2021 – 28.03.2022
- Duration: 6 months (1 semester)
- Team members: 2-3 Mannheim students and 2-3 Cluj students



### Cluj Cooperation:



- Cluj students participate in project for 3-4 months
  - September 2021 – January 2022
- Exchange trips depend on travel regulations (COVID-19), but are desired and **fully sponsored** by the organizers

## Requirements

- Programming skills (e.g., Java, Kotlin)
- Experience in version control systems (e.g., Git)
- Beneficial: Know-How in Mobile App Development or AI methods (symbolic and data-driven)
- Desirable soft-skills:
  - Open-minded character
  - Outstanding teamwork
  - Great communication skills
- Last but not least: High motivation and interest in the topic!



**Thank you for your attention!**



## Dr. Christian Bartelt

University of Mannheim | Institute for Enterprise Systems (InES)  
L 15, 1-6 | 4thfloor | 68131 Mannheim | Germany

[bartelt@es.uni-mannheim.de](mailto:bartelt@es.uni-mannheim.de)

<http://www.institute-for-enterprise-systems.de>



## Nils Wilken

University of Mannheim | Institute for Enterprise Systems (InES)  
L 15, 1-6 | 4thfloor | 68131 Mannheim | Germany

[wilken@es.uni-mannheim.de](mailto:wilken@es.uni-mannheim.de)

<http://www.institute-for-enterprise-systems.de>