

AdaseAB AdaseAB

Kerstin Bach, Associate Professor, NTNU

Massimiliano Ruocco, Telenor Research & Adj. Associate Professor, NTNU

cloud-scale experiments

https://www.ntnu.edu/ailab state-of-the-art #telenorntnuai





LAB VISION

- To apply open lab principle
 - Open to collaboration with the industry
 - Open to academic collaboration
- To enable sharing of data sets and research problems
 - Strong adherence to Ethics and Data Privacy requirements
 - Implementation of appropriate Data Sharing routines



lab-affiliated events

RESEARCH OBJECTIVES AND VISION



lab-scale experiments









- To enable both basic and applied research
- To allow wide variety of research areas
- To perform research at highest international level
- To enable cross-disciplinary collaboration







GOVERNANCE STRUCTURE - PEOPLE

Executive Board

- Rector of NTNU Gunnar Bovim
- Dean of the IE Faculty Geir EgilØien
- Head of Strategic Area Digital at NTNU – Torbjørn Karl
 Svendsen
- CEO Telenor Group SigveBrekke
- CEO Telenor Norway BeritSvendsen
- Telenor representative at CXO
 level To Be Decided

Steering Committee

- Head at the Department of Computer Science – Letizia
 Jaccheri
- Chair of the Research Committee at the Department of Computer
 Science – Agnar Aamodt
- Vice Dean for Research at
 IE Faculty Bjarne Helvik
- Head of Research Bjørn TaaleSandberg
- Head of Al and Analytics group –
 Astrid Undheim
- Head of Office of Digital Innovation Network (ODIN) – leva
 Martinkenaite

Coordinators

- Associate Professor, Department of Computer Science, NTNU Heri Ramampiaro
- Senior Research Scientist,ODIN, Telenor Research –Sigmund Akselsen





STAFFING

Current Telenor and NTNU staff members

In addition:

- Fully funded Professorship in Al and Machine Learning
- Fully funded Postdocs in Al and Machine Learning
- Fully funded PhD Fellows
- Partly funded lab assistant & internships

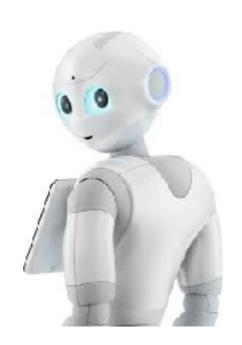




AI-LAB INFRASTRUCTURE & FACILITIES

- Enable "hassle-free" data sharing and research
- Facilitate fast innovation: creativity-enabling technology
- State-of-the-art devices, servers, research and development "Al-toys", etc.
- Lab-scale & cloud-scale experiments











State-of-the-art Infrastructure



RELEVANT EVENT INVOLVEMENT

- Regular Al & Big Data Hackathons
- Workshops
- Demo events, science fairs and show cases
- Involvement in international conference organization







Hackathon on Telco related problems and data:

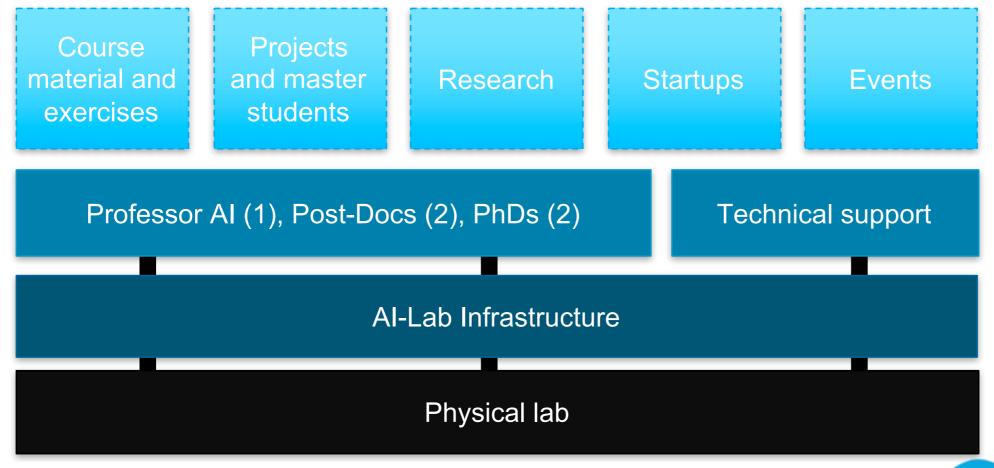
- Mobility Analytics
- Cyber Security
- Textual Social Media Analysis
- Customer Service Forecasting







SUMMARY & CONCLUSION







PRINCIPLES FOR PARTICIPATION

- Cross-disciplinary collaboration at NTNU
- Third party participation in the Lab
 - Reasonable relationship between the contributions of partners and the resources / help they could expect from the lab
- Strong adherence to Ethics and Data Privacy requirements





TELENOR RESEARCH TOPICS & RESEARCH AREAS FOR THE AI LAB

Personalisation

Subscription

Plan & Products

Recommender

Digital Content Recommender

Personalized

Adds & Coupons

Medium

Recommender

Services

Portal

Sticky

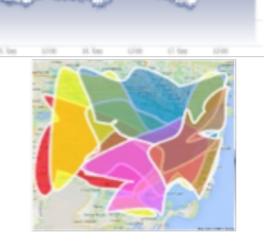
Services

Personalized

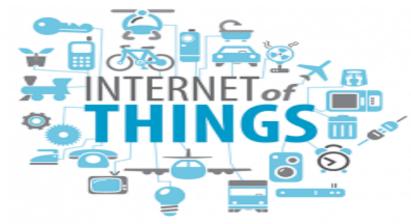
Notifications

telenor

Smart Networks



Internet of Things









SUMMARY & CONCLUSION (CONT'D)

Ultimate goals:

- To make the lab a national powerhouse for Al & Machine Learning
- To advance the state-of-the-art in AI, Machine Learning and Big Data
- To attract more research projects
- To attract more industrial partners
- To attract good students



The opening of Telenor-NTNU AI-lab 8 march 2017





COLLABORATIVE RESEARCH AT THE ACCESS TO TEAL-WORLD A TOTAL ACCESS TO TEAL-WORLD AT THE ACCESS TO TEAL-WORLD AT THE

Kerstin Bach, Associate Professor, NTNU

https://www.ntnu.edu/ailab

#telenorntnuai

state-of-the-art











