



ActivPal Week 14

Adnan Akbas
Ali Safdari
Mark Boon
Matthew Turkenburg
Colin Werkhoven

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WHAT HAVE WE DONE
PREVIOUS WEEK?



WHAT ARE OUR GOALS
FOR THE NEW SPRINT?

What have we
done in the
previous week?



Modified Activity Recognition
model



Train Valid Test Method



Paper structure

Activity recognition

ACTIVITIES RECOGNIZED

- Walking
- Running
- Cycling light
- Cycling heavy
- Standing
- Sitting

Dataset	Accuracy	F1	Precision	Recall
Validation	96%	96%	96%	96%
Test	85%	85%	85%	85%

	Accuracy	Precision	Recall
K-fold 5 cross-validation	81% +/- 5%	81% +/- 5%	82% +/- 4%

Train Valid Test Method

WE TOOK 3 DIFFERENT APPROACHES

- A. 22 respondents for train/valid, 3 respondents for test > split 22 respondents randomly
- B. 25 respondents > 18 training, 4 validation, 3 testing
- C. Every respondent is added to training(60%), validation(20%) and testing(20%)
- Final decision:
 - Method A, after discussing the 3 approaches with CBS

Paper structure

Paper chapters
Abstract
Introduction
Subject field
Methods
Subjects
Study design
Met regression models
Activity classification
Results
Met regression
Activity classification
Discussion
Conclusion
References



What are our goals for the new sprint?

01

Paper

A person wearing a dark suit and a light-colored shirt is holding a white rectangular sign with both hands. The sign has the word "QUESTIONS?" written on it in a bold, dark blue, sans-serif font. The background is a solid dark teal color.

QUESTIONS?