Motion sensor data preprocessing

MODULE

Chuan Yue - February 19, 2019

Description

Upon completion of this lab, students should be able to:

Propose ideas for preprocessing or segmenting motion sensor data.

Assessed by the tasks and outputs specified in STEP 1.

Construct a tool to separate the motion sensor data for the typing of each 4-digit PIN.

Assessed by the tasks and outputs specified in STEP 2.

Construct a tool to inspect the correctness of the typed PINs and discard incorrect data.

Assessed by the tasks and outputs specified in STEP 3.

Construct a tool to segment the motion sensor data of each keystroke.

Assessed by the tasks and outputs specified in STEP 4.

Construct a tool to save motion sensor data of different types of keystrokes for all the users.

Assessed by the tasks and outputs specified in STEP 5.

Outcomes

evaluate and synthesize

Students will be able to construct a tool to separate the motion sensor data for the typing of each 4-digit PIN.

evaluate and synthesize

Students will be able to construct a tool to segment the motion sensor data of each keystroke.

evaluate and synthesize

Students will be able to construct a tool to inspect the correctness of the typed PINs and discard incorrect data.

evaluate and synthesize

Students will be able to construct a tool to save motion sensor data of different types of keystrokes for all the users.

evaluate and synthesize

Students will be able to propose ideas for preprocessing or segmenting motion sensor data.

Content

Notes

Note that the solution manual and the solution materials are not uploaded to this platform based on the suggestion from Kaza, Siddharth (SKaza@towson.edu).

Please contact Dr. Chuan Yue (chuanyue@mines.edu) at the Colorado

School of Mines for the solution manual and the solution materials.

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