



Tutorial

Saturday, 14 May, 16:10 ~ 17:40, Room 1

Raspberry Pi in Medical Engineering ~Demonstration of non-invasive medical sensors~

by

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Abstract

Raspberry Pi is a low-cost, open source, credit card size computer. Potential applications vary from supercomputing to the Internet of Things. The most notable feature of Raspberry Pi is its affordability.

This tutorial introduces a configuration of Raspberry Pi with various medical sensors to scientists in Medical Engineering for advancement and exploration of their studies. A simple demonstration with some noninvasive medical sensor(s) such as ECG is arranged. A few participants may have some hands-on experiences (pending the number of devices available).

Target audiences

Scientists in Medical Engineering or related fields who seek some low-cost sensing solutions.

Agenda

1. Introduction and purchase information.
2. Raspberry Pi installation and configuration as a workstation (or a server).
3. Building a medical sensing system -- hardware and software.
4. Operation (demonstration).

Biography

Atsushi Inoue is specialized in Artificial Intelligence at large and Fuzzy Logic in specific. He has been affiliated with top-notch industries and institutes in several countries, including Hitachi Ltd. (Japan) and Carnegie Mellon University (USA), for his specialties. He is currently home at Eastern Washington University to enjoy his life with his family in the beautiful evergreen and necessary freedom. He currently acts as a gung ho computer scientist, an ice melter (liaison) in internationalization, and a food folie. He recently kicked off the PiLab, in order to promote Raspberry Pi for lean IT development.

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