Abstract

Context awareness is obtaining more and more vital for variety of mobile and pervasive applications on these days smartphones. Whereas human centric contexts (e.g. indoor/outdoor, at homing/office, driving/walking) are extensively researched, few tries have studied from phones perspective (e.g. on table/sofa, in pocket/bag/hand). Thus everyone including us tend to ask such immediate surroundings as micro-environment typically many to a dozen of centimeters, around a phone. Styling and implementing good smart application, a micro-environment sensing platform that automatically records sensing data information and characterize the micro-environment of smartphones, is the main aim. The platform runs as a daemon process on a smartphone and provides finer-grained atmospheric information to upper layer applications via programming interfaces. Smart android application is a unified framework covering major cases of phone uses, placement, perspective and interaction in sensible uses with sophisticated user habits. As a protracted term running middleware, smart android applications consider both energy consumption and user friendly relationship.
References


Index Terms

Computer Science Information Sciences

Keywords

Pressure Sensor, Memory Management, Context Management, Process Management, Proximity Sensor