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Wireless computing: From mobile computing to IoT

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Wireless computing is getting an attention nowadays. With the rapid growing of portable and mobile devices and sensors, the concept has been around for some time now but has been mainly utilizing communication protocols that exist for voice based communication. Wireless computing, as the name suggests, focused on the application of wireless computing applications that are running utilizing the wireless computing platform. Term wireless is not intended to replace wired data communication but instead to be utilized in areas that it would be otherwise impossible to communicate using wires. Instead of smart phone and laptop which equipped with wireless access capability, most of the special purpose device such as sensors and cameras also having the same capability to access internet and send the data. This enable the concept of 'Internet of Things' which communication of devices is automatically done with minimum human interaction. This talk will discuss the trends of wireless computing applications which can be applied from mobile computing to Internet of Things applications.

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Applications of communication technologies in unmannerial aerial platforms

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This work studies the technologies of communication applied in unmanned aerial platforms. An unmanned aerial vehicle (UAV) is an aircraft without a human pilot aboard. The degree of autonomy of UAV varies starting from remote controlled aircraft through fully autonomous aircraft. Currently UAVs can be deployed in several industries where presence of man is not required or risky. UAVs not only can be used in military and special operation applications, but also used in a growing number of civilian applications, such as policing and firefighting, and nonmilitary security work, such as inspection of power or pipelines. To functionally deployed UAVs, they need an independent reliable communication subsystem that are capable to send and receive data. In this work, the challenges associated with the application of communication system in these platforms will be presented.

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