THE BEDFORD BRANCH OF THE BRITISH COMPUTER SOCIETY (BCS) / UNIVERSITY OF BUCKINGHAM

REGISTER ONLINE AT:
https://events.bcs.org/book/1442

Tuesday 21 April 2015
6.30-8.00pm
Registration starts at 6.00pm

Venue: Chandos Road Building
University of Buckingham, Buckingham, MK18 1EG

"Cooperative indoors localisation between Smartphones based on on-board GNSS receivers, wireless communication transvers and inertial sensors"

GUEST SPEAKER   Dr Ihsan Lami, Senior Research Officer and Professor in Applied Computing at The School of Science, University of Buckingham

Cooperative indoors localisation between Smartphones based on on-board GNSS receivers, wireless communication transvers and inertial sensors

We are delighted to welcome Dr Ihsan Lami, Senior Research Officer and Professor in Applied Computing at the School of Science, University of Buckingham, to talk at an event organised by the Bedford branch of the British Computer Society (BCS) and the University of Buckingham on Tuesday, 21 April, 2015. This talk will be held at the University of Buckingham's Chandos Road Building, Buckingham, and you are warmly invited to attend. The talk will start at 6.30pm - with registration and refreshments from 6.00pm.

Smartphones and Tablets (SPs), driven by mobile-services/applications are becoming very important to our communication, localization and information needs. Demands are huge for seamless outdoors to indoors navigation - especially for accurate indoors localization. Examples of such Location Based Services (LBS) include tracking users for security and safety, find nearest restaurant/shop and other Point-Of-Interest information.

Most of the current solutions do attempt to hybridize multi-GNSS signals (GPS plus GLONASS) with on board SPs wireless communication technologies (cellular 2G/3G/4G, WiFi, Bluetooth) as well as other inertial sensors to offer accurate/seamless location.

This talk will explore the offering of various solutions based on hybridisation of the GNSS receivers with the Wireless technologies on SPs, and then suggest that the way forward is to use cooperative on-the-go structure-less solutions. The talk will conclude by discussing a proposed/developed Smart Indoors Localization Scheme (SILS) whereby participating Smartphones (SPs) in the same outdoors-plus-indoors vicinity will form a Bluetooth network to help locate the indoors SPs.

Guest speaker:
Dr Ihsan Lami

AGENDA:

6.00pm	Registration, refreshments and networking
6.30pm	Welcome and introduction
	Cooperative indoors localisation between Smartphones based on on-board GNSS receivers, wireless communication transvers and inertial sensors
7.20pm	Opportunity to question the speaker
7.45pm	Thanks
	Opportunity to network and talk to the speaker

For further information visit the Bedford BCS branch website at http://www.beds.bcs.org.uk/event.php?event=105

For more details and to register your attendance:

https://events.bcs.org/book/1442

Parking is available to the south of the Chandos Road Building (CRB), MK18 1EG and on the 'island' car park nearby.