

INVITED SPEAKER SEMINAR

IN ELECTRICAL AND COMPUTER ENGINEERING

Friday October 20, 2017
4:00pm – 5:00pm Room
SGW-EV 02.309

" Network Selection Algorithms for Heterogeneous Wireless Networks"



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ABSTRACT

Network selection algorithms are designed for making network selection decisions for new or handoff calls in heterogeneous wireless networks. Wireless networks are heterogeneous from six different perspectives, namely mobile terminals, radio access technologies (RATs), network services, users, network operators, and network geographical areas. Most of the existing network selection algorithms have focused on one or two aspects of wireless network heterogeneities, which have limited the suitability of the algorithms, especially in the context of future heterogeneous wireless networks. Thus, it is importance to consider the different aspects of wireless network heterogeneities in developing a network selection algorithm. This presentation focuses on development of network selection algorithms for making efficient network selection decisions for single or multiple calls in heterogeneous wireless networks. The performance of the proposed algorithms is evaluated through numerical simulations, and results are given to show the effectiveness of the algorithms.

BIOGRAPHY

Olabisi E. Falowo received his PhD in Electrical Engineering at the University of Cape Town in 2008. He is currently an Associate Professor in the same department. He has published over 70 technical papers in peer-reviewed conference proceedings and journals. His primary research interest is in radio resource management in heterogeneous wireless networks. Olabisi Falowo is a senior member of the IEEE.

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