

Mohamed Elkourdi and Asim Mazin, graduating doctoral students in the innovations in Wireless Information Networking Laboratory (iWINLAB) in the Electrical Engineering Department at USF, along with their advisor Distinguished University Professor Richard Gitlin, received a Best Paper Award from the 18<sup>th</sup> annual Wireless Telecommunication Symposium (WTS) held in April 2019 for their paper entitled “Performance Analysis for Virtual-Cell Based CoMP 5G Networks Using Deep Recurrent Neural Nets”. The researchers have developed a novel Machine Learning (ML) approach for proactive mobility management in 5G wireless networks referred to as dynamic CoMP. The results of this research are significant for 5G networks since the use of ML-driven dynamic CoMP can pre-empt the use of conventional handovers for ultra-low latency communication, minimize battery power consumption, optimize the cell-edge performance for a uniform user experience and enable “Cell-Less” 5G networks.

The paper is available at <http://iwinlab.eng.usf.edu/papers/WTS-2019-camera-ready-ME.pdf>.