

Research Interest May 2017

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My research interests are in the areas of wireless communications and data networking, covering topics such as interference cancellation, resource management, problem optimization and performance analyses.

In the area of interference cancellation (IC), I collaborate with Prof Jiangzhou Wang and Dr Huiling Zhu, University of Kent, UK. We research on novel IC techniques for Non-orthogonal Multiple Access (NOMA), a candidate technology for future wireless networks (the fifth generation (5G) and beyond). Through this research we develop novel algorithms for interference cancellation in NOMA systems and provide their performance analyses.

Besides IC, I am also interested in the algorithm design, programming and analysis of other communications and networking-oriented problems, such as; scheduling of shared resources, where I won the best paper award at IEEE GLOBECOM 2012; and user incentives for cooperative networking, where we developed an open-source software suite together with 10 European partners (including Alcatel-Lucent Bell Labs and Huawei) and filed an international patent with European Patent Office (EPO).

Further, I am a project manager for a software engineering project entitled as “Mobile Learning and Game Based Learning.” The aim of the project is to provide a web-based peace education platform to the children through gamification concept. This project is collaboration between Near East University, Cyprus, and Athabasca University, Canada.