

# KOMPUTIKA

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UM FCSIT and TP-Link Malaysia Launch AI-Driven Wi-Fi7 Network

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AFFILIATION

Department of  
Computer Systems and  
Technology



## AI-Driven Wi-Fi Environment

– By Ang Tan Fong, Chan Chee Seng, Ling Teck Chaw

Universiti Malaya's Faculty of Computer Science and Information Technology (FCSIT) has partnered with TP-Link Malaysia to launch an advanced AI-powered Wi-Fi7 network. This collaborative three-year project, aims to transform the education experience in FCSIT, will integrate AI into Wi-Fi environments to create a smarter, more efficient, and secure network for faculty and students alike. It is designed to enhance user experience through optimized performance and robust security. Intelligent load balancing and channel selection improves network responsiveness significantly, ensuring faster and more reliable connections. This technology also supports bandwidth optimization, prioritizing for an uninterrupted experience, predictive capabilities proactively address security risks, reducing potential downtime and safeguarding sensitive data.

With Wi-Fi7 technology, FCSIT is set to lead connectivity innovation, reinforcing UM's commitment to providing cutting-edge tools in education. TP-Link Malaysia is supporting the initiative with essential equipment and technical expertise, making this collaboration a model for other institutions interested in adopting smart networking technologies. Through this partnership, FCSIT is set to enhance its connectivity infrastructure, providing students and faculty with a seamless digital experience and positioning UM at the forefront of technological advancement in higher education.