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## How should smart universities reshape education? Create connected, secure and AI-driven campuses



In today's blended learning and working environment, universities must keep up with the rapidly changing environment by adopting artificial intelligence in the university's information technology system to change the way teachers and students work and learn.

What problems are colleges and universities facing today?

- a) Inconsistent/unstable Internet links on campus affect learning and teaching.
- b) Administrative work is still heavily reliant on 'human power' to be done via simulation or manual entry (eg student attendance), resulting in errors and inconsistent quality of work.
- c) The operation of the campus technology system still requires a lot of manual operation, and it is usually not until the project is "reported" that the equipment fails.

Most Malaysian universities are still underutilizing AI-led solutions on campus. Among the problems that universities often face is the lack of reliable internet connection and automated maintenance, cloud integration and human management, which leads to inefficiency and poor experience for users. It turns out that Juniper Networks' intelligence and security technology can solve these problems for higher education institutions around the world.

Juniper Networks (Juniper Networks), as the world's leading provider of artificial intelligence-driven networking and security solutions, pushes the boundaries of connectivity through continuous network innovation to power today's digital-first world. Its customers include 30,000 enterprises including the world's top 100 service providers and Fortune 100 companies, as well as hundreds of governments, government agencies and universities.



The pace of global adoption of artificial intelligence is accelerating. Juniper Networks pointed out in the [2022 annual artificial intelligence application research report](#) that in the Asia-Pacific region, 92% of respondents said that their enterprises are already adopting artificial intelligence-driven solutions to achieve automation, or assist in decision-making; last year's report showed only 42 percent did so. A majority of APAC IT leaders also say that AI will allow employees to focus on innovation or acquire new skills.

According to [the 12th Malaysia Plan](#) and [the 4th Asian Revolution \(IR4.0\) plan](#), the government emphasized the need to fully utilize emerging technologies to optimize the entire digital learning ecosystem.

In the digital age, blended education services adopt Juniper Networks to enhance students' learning experience. Among them, [King's Bangkok, Thailand](#) established the Experience-First network to enhance the good experience of its teachers and students in face-to-face, online and blended learning. [Japan's OtemonGakuin University \(OtemonGakuin University\)](#) has now strengthened the stability of the campus network and improved the operation and management of the university. [KyungSung University](#) in South Korea deployed Experience-First Network across the campus. Experience-First Network infrastructure plays a key role in providing optimized user experience between clouds by simplifying and automating IT operations and insights. Delivering a seamless learning, teaching and administration experience, both on and off campus.

The world's top universities with a long history, [Dartmouth College \(Dartmouth College\)](#), [South Carolina State University \(University of South Carolina\)](#) and [Australia's James Cook University \(James Cook University\)](#) have also adopted Juniper Networks artificial intelligence

Networking and security solutions that provide a seamless and robust wireless network link across the campus, resolving potential problems before they occur.



### **Assist customers in dealing with potential threats Enhance detection and risk response**

Pushing the boundaries of connectivity through continuous connectivity innovations, Juniper Networks' MIST AI embedded artificial intelligence technology is currently transforming education systems around the world.

MIST AI saves time and money while maximizing network infrastructure value. It does this through Marvis AI, a virtual network assistant with an interactive conversational interface that provides simple solutions to complex problems, simplifying procedures for organizations moving toward a multi-cloud era.

Universities are no strangers to incidents of cyber attacks such as DDoS attacks, data theft and theft of intellectual property research. As of September 2022, [MyCert has](#) reported more than 5,000 cybersecurity incidents, most of which are cyber intrusions. In 2021, Malaysia will also [lose more than RM560 million due to cybercrime](#) .

Juniper Networks is the global leader in artificial intelligence networking that uses artificial intelligence to help simplify, enhance and secure the user experience, to advance advanced university education, and to scale to meet current and future needs. It assists the University to better respond to potential threats and enhance detection of risk responses. [Juniper Connected Security](#) extends security to the entire network, from the customer to every connection point ranging from the cloud, protecting data and applications from users to how to establish network connections.

A series of networking solutions launched by Juniper Networks support the world's largest, most complex, and most demanding critical networks, providing network security and powerful performance required by a wide range of customers.