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## Mechanism for securing IEEE 802.11s routing protocols

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Wireless Mesh Networks (WMNs) are one of the key technologies which will dominate wireless networking in the next few years. The main characteristics of WMNs permit simple, low-cost network connectivity anytime anywhere. Their capability for self-organization significantly reduces the complexity of network deployment. The focus of this presentation provides some major research contributions that enable security applications to protect the routing protocol in Wireless Mesh Network. When Wireless Mesh networks are used in sensitive applications, there must be robust security protocols that ensure secure operation. The goals of security protocols should be to ensure the confidentiality, integrity and authenticity of network traffic, and to preserve the availability of communications. Attacks intended to compromise routing integrity are a significant threat and can lead to a network-wide loss of availability.

### Biography

Yesica Imelda Saavedra Benitez received a BSc degree in Computer Engineering from the Institute of Technology of Toluca, Mexico in 1997. She received her PhD degree from the University of Versailles, France in 2013. She is now a Full Professor at the Institute of Technology of Toluca. Her research interests are in the area of wireless ad hoc and sensor networks, Broadband Wireless Networks, multi-service bandwidth management in WLAN (IEEE 802.11), security in wireless networks in general and wireless sensor and ad hoc networks in particular. She has supervised and co-supervised several graduate students in these areas. She is Director of the Research laboratory at the Institute of Technology of Toluca.

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