



Wireless Technologies in Vehicular Ad Hoc Networks: Present and Future Challenges

By *Raul Aquino-Santos*

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Inter-vehicle communication (IVC) systems based on wireless ad-hoc networks have the potential to provide increased automotive safety, to achieve smooth traffic flow on the roads, and to improve passenger convenience by providing information and entertainment. However, implementing IVC systems for widespread use also presents a number of technical obstacles.

Wireless Technologies in Vehicular Ad Hoc Networks: Present and Future Challenges explores different models for inter-vehicular communication, in which vehicles are equipped with on-board computers that function as nodes in a wireless network. The book covers current theories and applications in physical, medium access, and network layers of IVC systems, exploring inter-vehicle ad-hoc routing protocols and the challenges of predicting vehicular movements, particularly inter-vehicular distance and relative velocity in highly dynamic and varied real-world scenarios.

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Editorial Review

Review

[...] I highly recommend Dr. Santos's timely book. I believe it will benefit many readers and inspire them to conquer the challenges mentioned in this book for vehicular ad hoc networks. --*Huaqun Guo, Institute for Infocomm Research, A*STAR, Singapore*

About the Author

Raúl Aquino Santos graduated from the University of Colima with a BE in Electrical Engineering, received his MS degree in Telecommunications from the Centre for Scientific Research and Higher Education in Ensenada, Mexico in 1990. He holds a PhD from the Department of Electrical and Electronic Engineering of the University of Sheffield, England. Since 2005, he has been with the College of Telematics, at the University of Colima, where he is currently a Research-Professor in telecommunications networks. His current research interests include wireless and sensor networks.

Arthur Edwards received his Master's degree in Education from the University of Houston in 1985. He has been a Researcher-Professor at the University of Colima since 1985, where he has served in various capacities. He has been with the School of Telematics since 1998. His primary areas of research are Computer Assisted Language Learning (CALL), distance learning, collaborative learning, multimodal learning, and mobile learning. The primary focus of his research is presently in the area of mobile collaborative learning.

Victor Rangel received the B.Eng (Hons) degree in Computer Engineering in the Engineering Faculty from the National Autonomous University of Mexico (UNAM) in 1996, the M.Sc in Telematics at from the University of Sheffield, U.K. in 1998, and the Ph.D. in Performance Analysis and Traffic Scheduling in Cable Networks in 2002, from the University of Sheffield. Since 2002, he has been with the School of Engineering, UNAM, where he is currently a Research-Professor in telecommunications networks. His research focuses on fixed, mesh and mobile broadband wireless access networks, QoS over IP, traffic shaping, and scheduling.

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