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Biography

Hoda Maalouf holds a Ph.D. in Communication Engineering from Imperial College, London. She worked at Imperial College, between 1990 and 1995 as a researcher on the Commission of the European Communities Advanced Transport Telematics DRIVE I CIDER and DRIVE II FRAME projects. She joined Notre Dame University in 1999 and chaired the Department of Computer Science between 2001 and 2006, and from 2010 till now. Her research interests include performance evaluation and modeling of fixed, wireless and hybrid networks. In particular, she concentrated on the analytical study of wireless sensor networks, delay/disruptive tolerant networks, multi-stage hybrid networks, distributed database systems and real-time systems

Peer-reviewed Journals

Regional

• Moussa, A., & Maalouf, H. (2009). Performance Optimization in Structured Wireless Sensor Networks. International Arab Journal Information Technology, 6(5), 451–456.

International

• Maalouf, H.W., & Gurcan, M.K. (2002). Minimization of the update response time in a distributed database system. Performance Evaluation, Elsevier, 50(4), 245–266.

Peer-reviewed Conference Proceedings

Local

- Akiki, P., & Maalouf, H.W. (2007). Extending Relational Database Management Systems to support Spatial Data. Current Trends in the Theory and Applications of Computer Science, 2007. CTTACS '07. NDU Press.
- Saab, S., & Maalouf, H.W. (2007). Data MULE Aggregation Protocol for Wireless Sensor Networks. Current Trends in the Theory and Applications of Computer Science, 2007. CTTACS '07. NDU Press.

Regional

• Katerji, W., & Maalouf, H.W. (2011). GIS Based Deployment Strategies of Wireless Sensors Networks for Forest Fire Surveillance. In the 5th International Conference on Information Technology, Jordan.

International

- Akiki, P. A., & Maalouf, H. W. (2014). A Real-Time Merging Process for Multi-view Video Coding. In 2014 17th IEEE Mediterranean Electrotechnical Conference (MELECON) (pp. 163–169). IEEE Press.
- Akiki, P. A., & Maalouf, H. W. (2011). A Two-Stage Encoding Scheme for Holographic Data Transmission. In 2011 5th

- FTRA International Conference on Multimedia and Ubiquitous Engineering (MUE) (pp. 138-142).
- Maalouf, H. W. (2009). Managing Trade-Offs between Information Loss and Latency in Real-Time Distributed Systems. In International Conference for Internet Technology and Secured Transactions, 2009. ICITST 2009 (pp. 1–6). IEEE Press.
- Maalouf, H. W., & Aakvaag, N. D. (2008). Packet resequencing and aggregation in wireless ad hoc networks. In I EEE International Symposium on Wireless Communication Systems. 2008. ISWCS '08 (pp. 672–676). IEEE Press.
- Maalouf, H. W. (2008). The Modeling of Packet Disordering in Multi-stage Wireless Sensor Networks. Proceedings
 of 5th International Symposium on Mechatronics and Its Applications, 2008. ISMA 2008 (pp. 1–5). IEEE Press.
- Chelala, M. G., & Maalouf, H. (2007). Performance Evaluation of Video Stream Transport over 2-Stage Hybrid EEE International Conference on Signal Processing and Communications, 2007. ICSPC 2007 (pp. 404–407). IEEE Press.
- Lewis, N. H., Maalouf, H. W., Gurcan, M. K., & Jones, M. C. (1993). The Impact of User Requirements on the System Design and Architecture of Hazardous Goods Monitoring Systems. Proceedings of DRIVE-II Technical Days, Commission of the European Communities, Brussels, Belgium.

Chapters in Books

International

- Siranossian, A. S., & Maalouf, H. W. (2013). REsilient Double WEighted TruST Based (REDWEST) WSN Using SAX.
 In Sensor Systems and Software (pp. 17–33). Springer International Publishing.
- Akiki, P., & Maalouf, H. (2009). Incorporating Spatial Data into Enterprise Applications. In Information Systems Development Towards a Service Provision Society (pp. 695–704). Springer US.

Exhibitions, Competitions and Creative Work

International

Co-author of "Energize your Leadership" book, CreateSpace-Amazon, USA. http://www.energizeyourleadership.net/

Esteemed indicators

Vice Chair of IEEE Computer Society, Lebanon Chapter (Region 8)

CV

Additional info can be found at: http://www.hodamaalouf.com/