RESUME

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Dr. Azmi Halasa

PROFILE

Expert in system architecture analysis and modeling (ERM & UML). Experience with analysis, design and development. Expert in set of IT development technologies: (Designer, Forms, Reports, Visual Basic, C^{++})

Current research interests are in power conservation in wireless networks especially in Ad-Hoc networks for its importance in the absence of structured networks during disasters … etc.

Has a background in setting up, configuring, verifying and troubleshooting network devices.

Personal Information:

- **Full Name:** Azmi Shafiq J. Halasa
- **Nationality** : Jordanian
- **Date of Birth** : 26/4/1972
- **Place of Birth**: Amman
- **Gender**: Male
- **Martial Status** : Married
- **Languages**:
  Arabic : Mother Language
  English : Excellent

Job Interests:

Seeking for a teaching position in a university which enables me to:

- Teach Computer and Information System classes
- Conduct researches in the field of Computer and Information System
- Get in contact with different types of people / students

Academic Qualification:

1- Ph.D "Computer Information System CIS"
University of Banking and Financial Sciences
Amman-Jordan
(2006 - 2010)
Evaluation: (91.2%)
Supervisor: Dr. Hussein Al- Bahadili

2- M.Sc degree "Computer Information System CIS"
Arab Academy for Banking and Financial Sciences
Amman-Jordan
(2004-2006)
Evaluation: (88.4%)

3- B.Sc degree "Computer Science CS"
The University of Jordan
Amman-Jordan
(1989-1993)
Evaluation: (73.1%)

My thesis in few words:

My thesis addresses the issue of energy efficiency for mobile ad hoc networks (MANETs). In a MANET, a mobile node consumes its power in message communication, message processing, and other operation missions. The amount of power a mobile node consumes for communication is the highest and the dominant as compared to what a node consumes for other tasks. My thesis presents a description and performance evaluation of a new efficient power conservation scheme, namely, the location-based power conservation (LBPC) scheme. It is based on the concept of reducing radio transmission range R by utilizing locally available nodes' location information to adjust R according to one of the three proposed radius adjustment criteria: farthest, average, and random. So that instead of transmitting with full power to cover up to its maximum radio transmission range (R_{max}), the transmitting node adjust R to less than R_{max}, which provides a power conservation depending on the square of the ratio R/R_{max}.

The LBPC scheme is implemented on the MANET simulator (MANSim). In order to evaluate the performance of the LBPC scheme, four scenarios are simulated. The first scenario compares the performance of the LBPC scheme when implemented for power conservation on three widely-used route discovery algorithms: pure, dynamic probabilistic, and location-aided routing scheme 1 (LAR-1) algorithms. The other three scenarios investigate the effects of number of nodes (n), nodes speed (u), and R_{max} on the performance of the LBPC scheme and the network. The performance of the proposed scheme is evaluated by calculating the power conservation ratio (P_c), while the performance of the network is evaluated by calculating two standard network parameters, namely, network reachability (RCH), and number of retransmission (RET). The simulations results are discussed and presented in tables and graphs.

• Experiences:

- (Feb 2012 till now) In Jadara University (Irbid / Jordan) as Assistant Professor.
- (2003 – 2012) In **Halasa Establishment for Clearing and Services** (Amman / Jordan) as a ***System Analyst, Database Designer.***

Publication:

- Khalid Kaabneh, Azmi Halasa, and Hussein Al-Bahadili. **An Effective Location-Based Power Conservation Scheme for MANETs**. Science Publications, American Journal of Applied Sciences (AJAS), Vol. 6, Issue 9, pp. 1708-1713, 2009.
  URL: http://www.scipub.org/scipub/back_issue.php?j_id=ajas

- Hussein Al-Bahadili and Azmi Halasa. **A Location-Based Power Conservation Scheme for MANETs: A Step towards Green Communications,** Chapter in **Simulation in Computer Network Design and Modeling.** IGI Global , DOI: 10.4018/978-1-4666-0191-8.ch009, ISBN13: 9781466601918, ISBN10: 1466601914, EISBN13: 9781466601925, 2012.

References

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