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Education

- PhD, Department of Computer Science and Information Engineering, National Cheng Kung University, 2003/7

Area of Specialty

- Database System
- Wireless Sensor Network
- Mobile Computing
- Performance Evaluation

Academic Experience

- Associate Professor, Department of Information Management, Southern Taiwan University of Science and Technology, 2012/2 to present
- Assistant Professor, Department of Information Management, Southern Taiwan University of Science and Technology, 2003/8 to 2012/1
- Adjunct Instructor, Department of Information Management, Southern Taiwan University of Science and Technology, 2002/2 to 2003/7

Publications

Journal Papers:

1. Y. Wang, I.R. Chen, and D.C. Wang, 2015, February, "A Survey of Mobile Cloud Computing Applications: Perspectives and Challenges," Wireless Personal Communications, vol.80, no.4, pp.1607-1623. [SCI]
2. I.R. Chen, Y. Li, R. Mitchell and D.C Wang, 2014, December, "Scalable and Efficient Dual-Region based Mobility Management for Ad Hoc Networks," Ad Hoc Networks, vol.23, pp.52-64. [SCI]
3. D.C. Wang, W. He, and I.R. Chen*, 2013, March, "Smart Routers for Cross-Layer Integrated Mobility and Service Management in Mobile IPv6 Systems," Wireless Personal Communications, vol.69, no.1, pp.449-469. [SCI]
4. Ding-Chau Wang, Chao-Chun Chen, and Chien-Han Liao, 2013, March, "Communication-efficient Tracking Model Selection Methods for Multi-Model based Object Tracking Sensor Networks," International Journal of Innovative Computing, Information and Control, Vol.9, No.3, pp.1337-1355. [SCI]
5. Ding-Chau Wang*, Chao-Chun Chen, 2012, May, " Design and Analysis of Location Control for Mobile Agent in Mobile Information Systems," International Journal of Innovative Computing, Information and Control, Vol.8, No.5(A), pp.3029-3047. [SCI]
6. Ing-Ray Chen, Ding-Chau Wang, 2010, September, "Regional Registration-Based

Mobile Multicast Service Management in Mobile IP Networks," Wireless Personal Communications, vol.54, no.4, pp.635-649. [SCI]

7. Ing-Ray Chen, Yating Wang, Ding-Chau Wang, 2010, August, "Reliability of Wireless Sensors with Code Attestation for Intrusion Detection," Information Processing Letters, vol.110, no.17, pp.778-786. [SCI]

8. Chao-Chun Chen, Ding-Chau Wang, Yong-Ming Huang, 2010, July, "VBLM: High-Accuracy Localization Method with Verification Mechanism for Unstable-Signal Sensor Networks," Journal of Information Science and Engineering, vol.26, no.4, pp.1459-1478. [SCI]

9. Jin-Hee Cho, Ing-Ray Chen, Ding-Chau Wang, 2008, May, "Performance optimization of region-based group key management in mobile ad hoc networks," Performance Evaluation, vol. 65, no.5, pp. 319-344. [SCI]

Conference Papers:

1. J. Wang, I.R. Chen, J.J.P. Tsai, and D.C. Wang, "Trust-based Cooperative Spectrum Sensing Against SSDF Attacks in Distributed Cognitive Radio Networks," Washington, IEEE Communications Quality and Reliability International Workshop (CQR 2016), U.S.A, May, 2016.

2. Y. Li, I.R. Chen and D.C. Wang, "Dual-Region Location Management for Mobile Ad Hoc Networks," Seoul, 19th IEEE International Conference on Parallel and Distributed Systems (ICPADS 2013), Korea, Dec., 2013.

3. Hsiang-Jen Meng and Ding-Chau Wang, "Robust Design for Game-Based Instruction Using Interactive Whiteboards," Takamatsu, 2012 Fourth IEEE International Conference On Digital Game And Intelligent Toy Enhanced Learning (DIGITEL 2012), Japan, Mar, 2012.

4. W. He, I.R. Chen and D.C. Wang, "Cross-Layer Integrated Mobility and Service Management Utilizing Smart Routers in Mobile IPv6 Systems", Paris, The 8th International Conference on Advances in Mobile Computing and Multimedia, France, Nov., 2010.

5. Ing-Ray Chen, Ding-Chau Wang, "On the Reliability of Wireless Sensors with Software-based Attestation for Intrusion Detection ", 2009 10th International Symposium on Pervasive Systems, Algorithms and Networks, Kaohsiung, Taiwan, Dec, 2009.

Dissertation:

1. Wang, Ding-Chau (2003) "Dependability and performance analysis of distributed algorithms for managing replicated data," Ph.D. Dissertation, National Cheng Kung University

Patents

1. A Recommendation System for Lectures, LICENSE ID: I536305, 2016/06/01
2. An Interactive Landmine removal Game-based E-Learning System, LICENSE ID: I529672, 2016/04/11
3. A System for Preventing Cheating in Exercise Testing, LICENSE ID: I518623, 2016/01/21
4. E-commerce Matchmaking Strategy for Mobile users and delivery orders, LICENSE ID: I515680, 2016/01/01