List of Publications

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Journal

1. V. Tran-Quang, P. Nguyen Huu, and T. Miyoshi, "A Transmission Range Optimization Algorithm to Avoid Energy Holes in Wireless Sensor Networks," to appear in IEICE Transactions on Communications, Vol. E94-B, No. 11, November 2011.
2. P. Nguyen Huu, V. Tran-Quang, and T. Miyoshi, "Low-Complexity and Energy-Efficient Algorithms on Image Compression for Wireless Sensor Networks," *IEICE Transactions on Communications*, Vol. E93-B, No.12, pp. 3438-3447, December 2010.
3. V. Tran-Quang, T. Miyoshi, "A Novel Gossip-based Sensing Coverage Algorithm for Dense Wireless Sensor Networks," *Computer Networks*, Vol. 53, Issue 13, pp. 2275-2287, August 2009.
4. V. Tran-Quang and T. Miyoshi, "Adaptive Routing Protocol with Energy Efficiency and Event Clustering for Wireless Sensor Networks," *IEICE Transactions on Communications*, Vol. E91-B, No. 9, pp. 2795-2805, September 2008.
5. V. Tran-Quang, "Optical Burst Switching Architecture for Service Differentiation in the Next Generation Optical Internet," *Post, Telecommunications & Information Technology Journal*, Vol. 1, No. 6, pp. 31-36, ISSN 0866-7039, June 2006. (in Vietnamese).

International Conference

5. P. Nguyen Huu, V. Tran-Quang, and T. Miyoshi, "Low-Complexity Motion Estination Algorithm Using Edge Feature for Video Compression on Wireless Video Sensor Networks," to appear in 13th Asia-Pacific Network Operations and Management Symposium (APNOMS2011), Taipei, Taiwan, September 2011.
6. V. Tran-Quang, P. Nguyen Huu, and T. Miyoshi, "A Collaborative Target Tracking Algorithm Considering Energy Constraint in WSNs," to appear in 19th International Conference on Software, Telecommunications and Computer Networks (SoftCOM2011), Hvar, Croatia, September 2011.
7. P. Nguyen Huu, V. Tran-Quang, and T. Miyoshi, "Efficient Motion Estimation Algorithm Using Edge Feature and Arithmetic Coding for Video Compression on WVSNs," to appear in 19th International Conference on Software, Telecommunications and Computer Networks (SoftCOM2011), Hvar, Croatia, September 2011.
8. P. Nguyen Huu, V. Tran-Quang, and T. Miyoshi, "Energy Threshold Adaptation Algorithms on Image Compression to Prolong WSN Lifetime," 7th International Symposium on Wireless Communication Systems (ISWCS 2010), York, UK, pp. 834-838, September 2010.
9. V. Tran-Quang, P. Nguyen Huu, and T. Miyoshi, "Adaptive Transmission Range Assignment Algorithm for In-routing Image Compression on Wireless Sensor Networks," *3rd International Conference on Communications and Electronics* (ICCE 2010), Nha Trang, Vietnam, pp. 18-23, August 2010.
10. P. Nguyen Huu, V. Tran-Quang, and T. Miyoshi, "Image Compression Algorithm Considering Energy Balance on Wireless Sensor Networks," *8th IEEE International Conference on Industrial Informatics* (INDIN 2010), Osaka, Japan, pp. 1005-1010, July 2010.
11. V. Tran-Quang and T. Miyoshi, "A Transmission Range Adjustment Algorithm to Avoid Energy Holes in Wireless Sensor Networks," 8th Asia-Pacific Symposium on Information and Telecommunication Technologies (APSITT 2010), Kuching, Malaysia, Paper No. A-5-4, June 2010.
12. P. Nguyen Huu, V. Tran-Quang, and T. Miyoshi, "Image Compression Algorithm Considering Energy Balance on Wireless Sensor Networks," *4th South East Asian Technical University Consortium* (SEATUC) Symposium, Tokyo, Japan, pp. 233-236, February 2010.

13. V. Tran-Quang and T. Miyoshi, "Energy Balance on Adaptive Routing Protocol Considering the Sensing Coverage Problem for Wireless Sensor Networks," *2nd International Conference on Communications and Electronics* (HUT-ICCE 2008), Hoi An, Vietnam, pp. 86-91, June 2008. (**IEEE Student Best Paper Award**).
14. V. Tran-Quang and T. Miyoshi, "An Algorithm for Sensing Coverage Problem in Wireless Sensor Networks," *2008 IEEE Sarnoff Symposium*, Princeton, New Jersey, USA, Paper No. S3.5, April 2008.
15. V. Tran-Quang and T. Miyoshi, "ARPEES: Adaptive Routing Protocol with Energy-Efficiency and Event-Clustering for Wireless Sensor Networks," *4th International Conference on Ubiquitous Robots and Ambient Intelligence (URAI 2007)*, Pohang, Korea, pp. 95-100, November 2007.
16. V. Tran-Quang and T. Miyoshi, "Adaptive Routing Protocol for Wireless Sensor Networks," *1st South East Asia Technical University Consortium (SEATUC) Symposium*, Bangkok, Thailand, pp. 19-20, February 2007.

Other Publications

17. V. Tran-Quang, P. Nguyen Huu, R. Yamamoto, and T. Miyoshi, "A Target Tracking Algorithm Considering Energy Balance in WSNs," To appear in 2011 Communications Society Conference of IEICE, English Session, BS-6, September 2011.
18. V. Tran-Quang, P. Nguyen Huu, and T. Miyoshi, "Energy Hole Avoidance for In-routing Image Compression on Wireless Multimedia Sensor Networks," *2011 IEICE General Conference*, English Session, BS-4-34, March 2011.
19. P. Nguyen Huu, V. Tran-Quang, and T. Miyoshi, "Motion Estimation Algorithm for Video Compression Using Edge Feature and Lapped Transform on Wireless Video Sensor Networks," *2011 IEICE General Conference*, English Session, BS-4-13, March 2011.
20. V. Tran-Quang, P. Nguyen Huu, and T. Miyoshi, "Dynamic Transmission Range Adjustment Algorithm to Avoid Energy Holes in Wireless Sensor Networks," 2010 Communications Society Conference of IEICE, English Session, BS-7-1, pp. S-45 - S-46, September 2010. (**English Session Award for an excellent paper of ICM committee at IEICE General and Society conferences**.)
21. P. Nguyen Huu, V. Tran-Quang, and T. Miyoshi, "Low-Complexity Motion Estimation Algorithm for Video Compression on Wireless Sensor Networks," 2010 Communications Society Conference of IEICE, English Session, BS-7-9, pp. S-61 - S-62, September 2010.
22. V. Tran-Quang and T. Miyoshi, "Energy Efficient Adaptive Routing Protocol for Wireless Sensor Networks," *The Research Reports of Shibaura Institute of Technology, Natural Sciences and Engineering*, Vol. 54, No. 1, pp. 39-48, 2010.
23. P. Nguyen Huu, V. Tran-Quang, and T. Miyoshi, "Image Compression Algorithm Considering Energy Balance on Wireless Sensor Networks," *2010 IEICE General Conference, English Session*, BS-3-25, pp. S-72 - S-73, March 2010.
24. V. Tran Quang and T. Miyoshi, "Prediction-based Mobile Object Tracking Technique with Load Balance for Wireless Sensor Networks," *2009 IEICE Society Communication Conference, English Session*, BS-10-26, pp. S-115-S-115, September 2009.
25. V. Tran-Quang and T. Miyoshi, "An Algorithm for Reducing Redundant Nodes in Dense Wireless Sensor Networks," *2009 IEICE General Conference, English Session*, BS-4-32, pp. S-63-S-64, March 2009.
26. V. Tran-Quang and T. Miyoshi, "Energy Balance on Multi-hop Relay Routing Protocol for Large Scale Wireless Sensor Networks," *IEICE Technical Report*, Vol. 108, No. 134, NS2008-40, pp. 83-88, July 2008.
27. V. Tran-Quang and T. Miyoshi, "Energy Balance on Adaptive Routing Protocol for Wireless Sensor Networks," *2008 General Conference of IEICE*, BS-3-14, Japan, March 2008.
28. V. Tran-Quang and T. Miyoshi, "ARPEES: Adaptive Routing Protocol for Large Scale Wireless Sensor Networks," *2007 Communications Society Conference of IEICE* , BS-12-3 , pp.S-154-S-155 , Japan, September 2007.