

Yu-Chee Tseng

Publications List

Contents

| | |
|----------------------------------|-----------|
| 1. Journal Papers..... | 1 |
| 2. Conference Papers..... | 12 |
| 3. Book Chapters..... | 24 |
| 4. Books..... | 26 |
| 5. Patents..... | 26 |
| 6. Technical Reports..... | 28 |

Yu-Chee Tseng

Publications List

1. Journal Papers

- (1) S.-T. Huang, S. K. Tripathi, N.-S. Chen & Y.-C. Tseng, “An Efficient Routing Algorithm for Realizing Linear Permutations on p^t -Shuffle-Exchange Networks”, *IEEE Trans. on Computers*, Vol. 40, No. 11, Nov. 1991, pp. 1292-98. (SCI, EI)
- (2) Y.-C. Tseng, T.-H. Lai & L.-F. Wu, “Matrix Representation of Graph Embedding in a Hypercube”, *Journal of Parallel and Distributed Computing*, vol. 23, 1994, pp. 215-223. (SCI, EI)
- (3) Y.-C. Tseng, “[Detecting Termination by Weight-Throwing in a Faulty Distributed System](#)”, *Journal of Parallel and Distributed Computing*, vol. 25, 1995, pp. 7-15. (SCI, EI)
- (4) Y.-C. Tseng, D. K. Panda, and T.-H. Lai, “A Trip-based Multicasting Model in Wormhole-routed Networks with Virtual Channels, *IEEE Transactions on Parallel and Distributed Systems*, Vol. 7, No. 2, Feb. 1996, pp. 138-150. (SCI, EI)
- (5) Y.-C. Tseng & S.K.S. Gupta, “All-to-all Personalized Communication in a Wormhole-routed Torus”, *IEEE Trans. on Parallel and Distributed Systems*, Vol. 7, No. 5, May 1996, pp. 498-505. (SCI, EI)
- (6) T. Chen, Y.-C. Tseng, & J.-P. Sheu, “Balanced Spanning Trees in Complete and Incomplete Star Graphs”, *IEEE Trans. on Parallel and Distributed Systems*, Vol. 7, No. 7, July 1996, pp. 717-723. (SCI, EI)
- (7) Y.-C. Tseng, “[Embedding a Ring in a Hypercube with Both Faulty Links and Faulty Nodes](#)”, *Information Processing Letters* 59, 1996, pp. 217-222. (SCIE, EI)
- (8) Y.-C. Tseng & T.-H. Lai, “[On the Embedding of a Class of Regular Graphs in a Faulty Hypercubes](#)”, *Journal of Parallel and Distributed Computing*, Vol. 37, 1996, pp. 200-206. (SCI, EI)
- (9) Y.-C. Tseng, “[Resilient and Flexible Ring Embedding in an Injured Hypercube](#)”, *Journal of Information Science and Engineering*, Vol. 12, No. 4, Dec. 1996, pp. 567-583. (SCIE, EI)
- (10) Y.-C. Tseng, T.-H. Lin, S. K. S. Gupta, and D. K. Panda, “[Bandwidth-Optimal Complete Exchange on Wormhole-Routed 2D/3D Torus Networks: A Diagonal-Propagation Approach](#)”, *IEEE Trans. on Parallel and Distrib. Sys.*, Vol. 8, No. 4, April 1997, pp. 380-396. (SCI, EI)
- (11) Y.-C. Tseng & J.-P. Sheu, “[Toward Optimal Broadcast in a Star Graph Using](#)

Yu-Chee Tseng

Publications List

- [Multiple Spanning Trees](#)”, *IEEE Trans. on Computers*, Vol. 46, No. 5, May 1997, pp. 593-599. (SCI, EI)
- (12) Y.-C. Tseng, “[A Dilated-Diagonal-Based Scheme for Broadcast in a Wormhole-Routed 2D Torus](#)”, *IEEE Trans. on Computers*, Vol. 46, No. 8, Aug. 1997, pp. 947-952. (SCI, EI)
- (13) Y.-C. Tseng, S.-H. Chang, and J.-P. Sheu, “[Fault-Tolerant Ring Embedding in a Star Graph with Both Link and Node Failures](#)”, *IEEE Trans. on Parallel and Distrib. Sys.*, Vol. 8, No. 12, Dec. 1997, pp. 1185-1195. (SCI, EI)
- (14) Y.-C. Tseng, W.-L. Chang & J.-P. Sheu, “[Efficient All-to-All Broadcast in the Star Graph Interconnection Networks](#)”, *Proceedings of NSC -- Part A: Physical Science and Engineering*, Vol. 22, No. 6, Nov. 1998, pp. 811-819.
- (15) Y.-C. Tseng, T.-Y. Juang, and M.-C. Du, “[Some Heuristics and Experiments for Building a Multicasting Tree in a High-Speed Network](#)”, *IEEE Concurrency*, Dec. 1998, Vol. 6, No. 4, pp. 57-67. (EI)
- (16) Y.-C. Tseng, “[Multi-Node Broadcasting in Hypercubes and Star Graphs](#)”, *Journal of Information Science and Engineering*, Vol. 14, No. 4, Dec. 1998, pp. 809-820. (SCIE, EI)
- (17) Y.-C. Tseng, S.-Y. Wang, and C.-W. Ho, “[Efficient Broadcasting in Wormhole-Routed Multicomputers: A Network-Partitioning Approach](#)”, *IEEE Trans. on Parallel and Distributed Systems*, Vol. 10, No. 1, Jan. 1999, pp. 44-61. (SCI, EI)
- (18) Y.-C. Tseng, Y.-S. Chen, T.-Y. Juang, and C.-J. Chang, “[Congestion-Free, Dilation-2 Embedding of Complete Binary Trees into Star Graphs](#)”, *Networks*, Vol. 33, No. 3, May 1999, pp. 221-231. (SCI)
- (19) Y.-C. Tseng, S.-Y. Ni, and J.-P. Sheu, “[Toward Optimal Complete Exchange on Wormhole-Routed Tori](#)”, *IEEE Trans. on Computers*, Vol. 48, No. 10, Oct. 1999, pp. 1065-82. (SCI, EI)
- (20) Y.-C. Tseng, M.-H. Yang, and T.-Y. Juang, “[Achieving Fault-Tolerant Multicast in Injured Wormhole-Routed Tori and Meshes Based on Euler Path Construction](#)”, *IEEE Trans. on Computers*, Vol. 48, No. 11, Nov. 1999, pp. 1282-96. (SCI, EI)
- (21) S.-Y. Wang and Y.-C. Tseng, “[Algebraic Foundations and Broadcasting Algorithms for Wormhole-Routed All-Port Tori](#)”, *IEEE Trans. on Computers*, Vol. 49, No. 3, March 2000, pp. 246-258. (SCI, EI)
- (22) Y.-S. Chen, J.-P. Sheu, and Y.-C. Tseng, “[A Long-Ring Embedding Scheme in](#)

Yu-Chee Tseng

Publications List

- [the Faulty Star Graph](#)”, *Proceedings of NSC -- Part A: Physical Science and Engineering*, Vol. 24, No. 5, 2000, pp. 352-361.
- (23) S.-L. Wu, Y.-C. Tseng, and J.-P. Sheu, “[Intelligent Medium Access for Mobile Ad Hoc Networks with Busy Tones and Power Control](#)”, *IEEE Journal on Selected Areas in Communications*, 18(9):1647-1657, Sep. 2000. (SCI, EI)
- (24) Y.-C. Tseng and Y.-F. Kao, “[Vertex-Ordering for Fully Adaptive Routing in a Wormhole-Routed Star Graph](#)”, *Tamsui Oxford Journal of Mathematical Sciences*, 16(2), 2000, pp. 187-204.
- (25) W.-H. Liao, Y.-C. Tseng, K.-L. Lo, and J.-P. Sheu, “[GeoGRID: A Geocasting Protocol for Mobile Ad Hoc Networks Based on GRID](#)”, *Journal of Internet Technology*, vol. 1, no. 2, Dec. 2000, pp. 23-32.
- (26) K.-J. Lin, S.-C. Yang, and Y.-C. Tseng, “[Lazy Connection Reservation for Seamless Handoff for Two-Tier Wireless ATM Networks](#)”, *Journal of Computers*, Vol. 12, No. 2, June 2000, pp. 19-28.
- (27) Y.-C. Tseng, M.-H. Yang, C.-M. Hsieh, W.-H. Liao, and J.-P. Sheu, “[Data Broadcasting and Seamless Channel Transition for Highly-Demanded Videos](#)”, *IEEE Trans. on Communications*, Vol. 49, No. 5, May 2001, pp. 863-874. (SCI, EI)
- (28) Y.-C. Tseng, S.-L. Wu, W.-H. Liao, and C.-M. Chao, “[Location Awareness in Ad Hoc Wireless Mobile Networks](#)”, *IEEE Computer*, Vol. 34, No. 6, June 2001, pp. 46-52. (SCI, EI)
- (29) Y.-C. Tseng and C.-C. Tan, “[Termination Detection Protocols for Mobile Distributed Systems](#)”, *IEEE Trans. on Parallel and Distributed Systems*, Vol. 12, No. 6, June 2001, pp. 558-566. (SCI, EI)
- (30) Y.-C. Tseng and W.-N. Hung, “[An Improved Cell Type Classification for Random Walk Modeling in Cellular Networks](#)”, *IEEE Communications Letters*, Vol. 5, No. 8, Aug. 2001, pp. 337-339. (SCI, EI)
- (31) W.-H. Liao, Y.-C. Tseng, and J.-P. Sheu, “[GRID: A Fully Location-Aware Routing Protocol for Mobile Ad Hoc Networks](#)”, *Telecommunication Systems*, Vol. 18, No. 1, 2001, pp. 37-60. (SCIE)
- (32) S.-L. Wu, S.-Y. Ni, Y.-C. Tseng, and J.-P. Sheu, “[Route Maintenance in a Wireless Mobile Ad Hoc Network](#)”, *Telecommunication Systems*, Vol. 18, No. 1, 2001, pp. 61-84. (SCIE)
- (33) S.-Y. Wang, Y.-C. Tseng, S.-Y. Ni, and J.-P. Sheu, “[Circuit-Switched Broadcasting in Multi-Port Multi-Dimensional Torus Networks](#)”, *Journal of*

Yu-Chee Tseng

Publications List

- Supercomputing*, Vol. 20, No. 3, Nov. 2001, pp. 217-241. (SCI, EI)
- (34) S.-Y. Wang, Y.-C. Tseng, C.-S. Shiu, and J.-P. Sheu, “[Balancing Traffic Load for Multi-Node Multicast in a Wormhole 2D Torus/Mesh](#)”, *The Computer Journal*, Vol. 44, No. 5, 2001, pp. 354-367. (SCIE, EI)
- (35) K.-P. Shih, C.-Y. Lai, J.-P. Sheu, and Y.-C. Tseng, “[Design and Implementation of a Communication-Efficient Data-Parallel Programs Compiling System](#)”, *Journal of Information Science and Engineering*, Vol. 17, 2001, pp. 825-839. (SCIE, EI)
- (36) Y.-C. Tseng, S.-Y. Ni, Y.-S. Chen, and J.-P. Sheu, “[The Broadcast Storm Problem in a Mobile Ad hoc Network](#)”, *ACM Wireless Networks*, Vol. 8, No. 2, March 2002, pp. 153-167. (SCI, EI)
- (37) Y.-C. Tseng, C.-M. Chao, S.-L. Wu, and J.-P. Sheu, “[Dynamic Channel Allocation with Location Awareness for Multihop Mobile Ad Hoc Networks](#)”, *Computer Communications*, 25(7), May 2002, pp. 676-688. (SCIE, EI)
- (38) K.-J. Lin, Y.-C. Tseng, and J.-P. Sheu, “[Channel-Sharing Strategies in Two-Tier Cellular PCS Systems](#)”, *Computer Communications*, 25(14), Sep. 2002, pp. 1333-42. (SCIE, EI)
- (39) Y.-C. Tseng and H.-K. Pan, “[Data Hiding in 2-Color Images](#)”, *IEEE Trans. on Computers*, 51(7), July 2002, pp. 873-880. (SCI, EI)
- (40) S.-L. Wu, Y.-C. Tseng, C.-Y. Lin, and J.-P. Sheu, “[A Multi-Channel MAC Protocol with Power Control for Multi-Hop Mobile Ad Hoc Networks](#)”, *The Computer Journal*, Vol. 45, No. 1, 2002, pp. 101-110. (SCIE, EI)
- (41) Y.-C. Tseng, Y.-Y. Chen, and H.-K. Pan, “[A Secure Data Hiding Scheme for Binary Images](#)”, *IEEE Trans. on Communications*, Vol. 50, No. 8, Aug. 2002, pp. 1227-31. (SCI, EI)
- (42) Y.-C. Tseng, M.-H. Yang, and C.-H. Chang, “[A Recursive Frequency-Splitting Scheme for Broadcasting Hot Videos in VOD Service](#)”, *IEEE Trans. on Communications*, Vol. 50, No. 8, Aug. 2002, pp. 1348-55. (SCI, EI)
- (43) M.-H. Yang, Y.-C. Tseng, and M.-S. Jian, “[Multi-Node Multicast in Multi-Dimensional Wormhole Tori and Meshes with Load Balance](#)”, *Journal of Information Science and Engineering*, special issue on Parallel and Distributed Systems, Vol. 18, No. 6, pp. 959-980. (SCIE, EI)
- (44) W.-H. Liao, Y.-C. Tseng, S.-L. Wang, and J.-P. Sheu, “[A Multi-Path QoS Routing Protocol in a Wireless Mobile Ad Hoc Network](#)”, *Telecommunication Systems* (special issue of best papers from ICN2001),

Yu-Chee Tseng

Publications List

- Vol. 19, No. 3-4, 2002, pp. 329-347. (SCIE)
- (45) T.-Y. Lin and Y.-C. Tseng, “[An Adaptive Sniff Scheduling Scheme for Power Saving in Bluetooth](#)”, *IEEE Wireless Communications*, Vol. 9, No. 6, Dec. 2002, pp. 92-103. (SCI, EI)
- (46) Y.-C. Tseng and C.-M. Chao, “[Code Placement and Replacement Strategies for Wideband CDMA OVSF Code Tree Management](#)”, *IEEE Trans. on Mobile Computing*, Vol. 1, No. 4, Oct.-Dec. 2002, pp. 293-302. (SCI)
- (47) Y.-C. Tseng, C.-C. Shen, and W.-T. Chen “[Integrating Mobile IP with Ad Hoc Networks](#)”, *IEEE Computer*, Vol. 36, No. 5, May 2003, pp. 48-55. (SCI, EI)
- (48) Y.-C. Tseng, S.-Y. Ni, and E.-Y. Shih, “[Adaptive Approaches to Relieving Broadcast Storms in a Wireless Multihop Mobile Ad Hoc Network](#)”, *IEEE Trans. on Computers*, Vol. 52, No. 5, May 2003, pp. 545-557. (SCI, EI)
- (49) M.-H. Yang, C.-H. Chang, and Y.-C. Tseng, “[A Borrow-and-Return Model to Reduce Client Waiting Time for Broadcasting-Based VOD Services](#)”, *IEEE Trans. on Broadcasting*, Vol. 49, No. 2, June 2003, pp. 162-169. (SCI, EI)
- (50) T.-Y. Lin, Y.-C. Tseng, and K.-M. Chang, “[A New BlueRing Scatternet Topology for Bluetooth with Its Formation, Routing, and Maintenance Protocols](#)”, *Wireless Communications and Mobile Computing*, Vol. 3, No. 4, June 2003, pp. 517-537. (SCIE)
- (51) Y.-C. Tseng, L.-W. Chen, M.-H. Yang, and J.-J. Wu, “[A Stop-or-Move Mobility Model for PCS Networks and Its Location-Tracking Strategies](#)”, *Computer Communications*, Vol. 26, No. 12, July 2003, pp. 1288-1301. (SCIE, EI)
- (52) C.-F. Huang and Y.-C. Tseng, “[On Topology Improvement of a Packet Radio Network by Power Control](#)”, *IEEE Trans. on Vehicular Technology*, Vol. 52, No. 4, July 2003, pp. 985-998. (SCI, EI)
- (53) Y.-C. Tseng, C.-S. Hsu, and T.-Y. Hsieh, “[Power-Saving Protocols for IEEE 802.11-Based Multi-Hop Ad Hoc Networks](#)”, *Computer Networks, Elsevier Science Pub.*, Vol. 43, No. 3, Oct. 2003, pp. 317-337. (SCIE, EI)
- (54) T.-Y. Lin and Y.-C. Tseng, “[Collision Analysis for a Multi-Bluetooth Picocells Environment](#)”, *IEEE Communications Letters*, Vol. 7, No. 10, Oct. 2003, pp. 475-477. (SCI, EI)
- (55) Y.-C. Tseng, Y.-F. Lee, and Y.-C. Chang, “[On the Lifetime of Routing Paths in Multi-hop Mobile Ad Hoc Networks](#)”, *IEEE Trans. on Mobile Computing*, Vol. 2, No. 4, Oct.-Dec. 2003, pp. 366-376. (SCI)
- (56) Y.-S. Chen, Y.-C. Tseng, J.-P. Sheu, and P.-H. Kuo, “[An On-Demand,](#)

Yu-Chee Tseng

Publications List

- [Link-State, Multi-Path QoS Routing in a Wireless Mobile Ad-Hoc Network](#)”, *Computer Communications*, Vol. 27, No. 1, Jan. 2004, pp. 27-40. (SCIE, EI)
- (57) Y.-C. Tseng, Y.-N. Chang, and P.-H. Tseng, “[Energy-Efficient Topology Control for Wireless Ad Hoc Sensor Networks](#)”, *Journal of Information Science Engineering*, Vol. 20, No. 1, Jan. 2004, pp. 27-38. (SCIE, EI)
- (58) J.-P. Sheu, C.-H. Liu, S.-L. Wu, and Y.-C. Tseng, “[A Priority MAC Protocol to Support Real-Time Multimedia Traffic in Ad Hoc Networks](#)”, *ACM Wireless Networks*, Vol. Jan. 2004, pp. 61-69. (SCI, EI)
- (59) T.-Y. Lin, Y.-C. Tseng, and Y.-T. Lu, “[An Efficient Link Polling Policy by Pattern Matching for Bluetooth Piconets](#)”, *The Computer Journal*, Vol. 47, No. 2, 2004, pp. 169-178. (SCIE, EI)
- (60) S.-R. Ye, Y.-C. Wang, and Y.-C. Tseng, “[A Jamming-Based MAC Protocol to Improve the Performance of Wireless Multihop Ad Hoc Networks](#)”, *Wireless Communications and Mobile Computing*, Vol. 4, No. 1, Feb. 2004, pp. 75-84. (SCIE)
- (61) Y.-C. Tseng, J.-R. Jiang, and J.-H. Lee, “[Secure Bootstrapping and Routing in an IPv6-based Ad Hoc Network](#)”, *Journal of Internet Technology*, Vol. 5, No. 2, pp. 123-130, Feb. 2004.
- (62) J.-P. Sheu, H.-L. Wang, C.-H. Chang, and Y.-C. Tseng, “A Fast Video-on-Demand Broadcasting Scheme for Popular Videos”, *IEEE Trans. on Broadcasting*, Vol. 50, No. 2, June 2004, pp. 120-125. (SCI, EI)
- (63) Y.-C. Tseng, Y.-C. Chueh, and J.-P. Sheu, “[Seamless Channel Transition for the Staircase Video Broadcasting Scheme](#)”, *IEEE Trans. on Networking*, Vol. 12, No. 3, June 2004, pp. 559-571. (SCI, EI)
- (64) Y.-C. Tseng, S.-P. Kuo, H.-W. Lee, and C.-F. Huang, “[Location Tracking in a Wireless Sensor Network by Mobile Agents and Its Data Fusion Strategies](#)”, *The Computer Journal*, Vol. 47, No. 4, July 2004, pp. 448-460. (SCIE, EI)
- (65) C.-F. Huang, H.-W. Lee, and Y.-C. Tseng, “[A Two-Tier Heterogeneous Mobile Ad Hoc Network Architecture and Its Load-Balance Routing Problem](#)”, *ACM Mobile Networking and Applications (MONET)*, Special Issue on Integration of Heterogeneous Wireless Technologies, Vol. 9, 2004, pp. 379-391. (SCIE, EI)
- (66) Y.-C. Tseng and T.-Y. Hsieh, “[An Architecture for Power-Saving Communications in a Wireless Mobile Ad Hoc Network Based on Location Information](#)”, *Microprocessors and Microsystems, Elsevier Pub.*, Vol. 28, No.

Yu-Chee Tseng

Publications List

- 8, 2004, pp. 457-465. (SCIE, EI)
- (67) K.-J. Lin and Y.-C. Tseng, "[Adaptive Selection Combining for Soft Handover in OVSF W-CDMA Systems](#)", *IEEE Communications Letters*, Vol. 8, No. 11, Nov. 2004, pp. 656-658. (SCI, EI)
- (68) J.-R. Jiang, B.-R. Lin, and Y.-C. Tseng, "[Analysis of Bluetooth Device Discovery and Some Speedup Mechanisms](#)", *Int'l J. of Electrical Engineering*, Vol. 11, No. 4, Nov. 2004, pp. 301-310. (EI)
- (69) S.-L. Wu, C.-Y. Lin, Y.-C. Tseng, and J.-P. Sheu, "A Novel MAC Protocol with On-Demand Channel Assignment for Multi-Hop Mobile Ad Hoc Networks", *Int'l J. of Electrical Engineering*, Vol. 11, No. 4, Nov. 2004, pp. 361-374. (EI)
- (70) T.-Y. Lin, Y.-K. Liu, and Y.-C. Tseng, "[An Improved Packet Collision Analysis for Multi-Bluetooth Piconets Considering Frequency-Hopping Guard Time Effect](#)", *IEEE J. on Selected Areas in Communications*, Vol. 22, No. 10, Dec. 2004, pp. 2087-2094. (SCI, EI)
- (71) J.-R. Jiang, Y.-C. Tseng, C.-S. Hsu, and T.-H. Lai, "[Quorum-Based Asynchronous Power-Saving Protocols for IEEE 802.11 Ad Hoc Networks](#)", *ACM Mobile Networking and Applications (MONET)*, special issue on Algorithmic Solutions for Wireless, Mobile, Ad Hoc and Sensor Networks, Vol. 10, No. 1/2, 2005, pp. 169-181. (SCIE, EI)
- (72) C.-F. Huang and Y.-C. Tseng, "[A Survey of Solutions to the Coverage Problems in Wireless Sensor Networks](#)", *Journal of Internet Technology*, Vol. 6, No. 1, pp. 1-8, 2005.
- (73) L.-C. Wang, S.-Y. Huang, and Y.-C. Tseng, "Interference Analysis and Resource Allocation for TDD-CDMA Systems to Support Asymmetric Services by Using Directional Antennas", *IEEE Trans. on Vehicular Technology*, Vol. 54, No. 3, May 2005, pp. 1056-1069. (SCI, EI)
- (74) Y.-C. Wang, S.-R. Ye, and Y.-C. Tseng, "[A Fair Scheduling Algorithm with Traffic Classification in Wireless Networks](#)", *Computer Communications*, Vol. 28, 2005, pp. 1225-1239. (SCIE, EI)
- (75) S.-P. Kuo, Y.-C. Tseng, F.-J. Wu, and C.-Y. Lin, "[A Probabilistic Signal-Strength-Based Evaluation Methodology for Sensor Network Deployment](#)", *Int'l J. of Ad Hoc and Ubiquitous Computing*, Vol. 1, No. 1-2, 2005, pp. 3-12.
- (76) Y.-C. Tseng, T.-Y. Lin, Y.-K. Liu, and B.-R. Lin, "[Event-Driven Messaging](#)

Yu-Chee Tseng

Publications List

- [Services over Integrated Cellular and Wireless Sensor Networks: Prototyping Experiences of a Visitor System](#)”, *IEEE J. on Selected Areas in Communications*, Vol. 23, No. 6, June 2005, pp. 1133-1145. (SCI, EI)
- (77) C.-M. Chao, Y.-C. Tseng, and L.-C. Wang, “[Reducing Internal and External Fragmentations of OVSF Codes in WCDMA Systems with Multiple Codes](#)”, *IEEE Trans. on Wireless Communications*, Vol. 4, No. 4, July 2005, pp. 1516-1526. (SCIE)
- (78) C.-F. Huang and Y.-C. Tseng, “[The Coverage Problem in a Wireless Sensor Network](#)”, *ACM Mobile Networks and Applications (MONET)*, special issue on Wireless Sensor Networks, Vol. 10, No. 4, Aug. 2005, pp. 519-528. (SCIE, EI)
- (79) Y.-C. Wang, Y.-C. Tseng, and W.-T. Chen, “[MR-FQ: A Fair Scheduling Algorithm for Wireless Networks with Variable Transmission Rates](#)”, *Simulation: Transactions of The Society for Modeling and Simulation International*, Vol. 81, No. 8, Aug. 2005, pp. 587-608. (SCI)
- (80) C.-M. Chao, Y.-C. Tseng, and L.-C. Wang, “[Dynamic Bandwidth Allocation for Multimedia Traffic with Rate Guarantee and Fair Access in WCDMA Systems](#)”, *IEEE Trans. on Mobile Computing*, Vol. 4, No. 5, Sep./Oct. 2005, pp. 420-429. (SCI)
- (81) Y.-C. Tseng, M.-S. Pan, and Y.-Y. Tsai, “[Wireless Sensor Networks for Emergency Navigation](#)”, *IEEE Computer*, Vol. 39, No. 7, July 2006, pp. 55-62. (SCI, EI)
- (82) C.-Y. Lin, W.-C. Peng, and Y.-C. Tseng, “[Efficient In-Network Moving Object Tracking in Wireless Sensor Networks](#)”, *IEEE Trans. on Mobile Computing*, Vol. 5, No. 8, Aug. 2006, pp. 1044-56. (SCI)
- (83) M.-S. Pan, C.-H. Tsai, and Y.-C. Tseng, “[Emergency Guiding and Monitoring Applications in Indoor 3D Environments by Wireless Sensor Networks](#)”, *Int’l Journal of Sensor Networks*, Vol. 1, Nos. 1/2, pp. 2-10, 2006.
- (84) Y.-Y. Hsu, Y.-C. Tseng, C.-C. Tseng, C.-F. Huang, J.-H. Fan, and H.-L. Wu, “[Design and Implementation of Two-tier Mobile Ad Hoc Networks with Seamless Roaming and Load-balancing Routing Capacity](#)”, *Pervasive and Mobile Computing*, Vol. 2, No. 3, Sep. 2006, pp. 286-299.
- (85) S.-R. Ye and Y.-C. Tseng, “[A Multichain Backoff Mechanism for IEEE 802.11 WLANs](#)”, *IEEE Trans. on Vehicular Technology*, Vol. 55, No. 5, Sep. 2006, pp. 1613-1620. (SCI, EI)

Yu-Chee Tseng

Publications List

- (86) Y.-C. Tseng, S.-L. Wu, C.-M. Chao, and J.-P. Sheu, "An Efficient MAC Protocol for Multi-Channel Mobile Ad Hoc Networks Based on Location Information", *Int'l J. of Communication Systems*, Vol. 19, 2006, pp. 877-896. (SCI)
- (87) C.-F. Huang, L.-C. Lo, Y.-C. Tseng, and W.-T. Chen "[Decentralized Energy-Conserving and Coverage-Preserving Protocols for Wireless Sensor Networks](#)", *ACM Trans. on Sensor Networks*, Vol. 2, No. 2, 2006, pp. 182-187.
- (88) Y.-C. Tseng, S.-L. Wu, and Q.-A. Zeng, "Guest Editorial: Key Technologies and Applications of Wireless Sensor and Ad Hoc Networks", *Int'l J. of Pervasive Computing and Communications*, Vol. 2, No. 4, 2006, pp. 311.
- (89) C.-F. Huang, Y.-C. Tseng, and H.-L. Wu, "[Distributed Protocols for Ensuring Both Coverage and Connectivity of a Wireless Sensor Network](#)", *ACM Trans. on Sensor Networks*, Vol. 3, No. 1, March 2007.
- (90) C.-S. Hsu, Y.-C. Tseng, and J.-P. Sheu, "An Efficient Reliable Broadcasting Protocol for Wireless Mobile Ad Hoc Networks", *Ad Hoc Networks*, Vol. 5, No. 3, April 2007, pp. 299-312.
- (91) S.-M. Chen, S.-P. Kuo, and Y.-C. Tseng, "[A Quorum-based Mechanism as an Enhancement to Clock Synchronization Protocols for IEEE 802.11 MANETs](#)", *IEEE Communications Letters*, Vol. 11, No. 4, April 2007, pp. 313-315. (SCI, EI)
- (92) Y.-C. Tseng, Y.-C. Wang, K.-Y. Cheng, and Y.-Y. Hsieh, "[iMouse: An Integrated Mobile Surveillance and Wireless Sensor System](#)", *IEEE Computer*, Vol. 40, No. 6, June 2007, pp. 60-66. (SCI, EI)
- (93) J.-J. Chen, Y.-C. Tseng, and H.-W. Lee, "[A Seamless Handoff Mechanism for DHCP-Based IEEE 802.11 WLANs](#)", *IEEE Communications Letters*, Vol. 11, No. 8, Aug. 2007, pp. 665-667. (SCI, EI)
- (94) C.-F. Huang, Y.-C. Tseng, and L.-C. Lo, "[The Coverage Problem in Three-Dimensional Wireless Sensor Networks](#)", *J. of Interconnection Networks*, Vol. 8, No. 3, Sep. 2007, pp. 209-227.
- (95) Y.-C. Wang, K.-Y. Cheng, and Y.-C. Tseng, "[Using Event Detection Latency to Evaluate the Coverage of a Wireless Sensor Network](#)", *Computer Communications*, Special Issue on "Network Coverage and Routing Schemes for Wireless Sensor Networks", Vol. 30, No. 14-15, Oct. 2007, pp. 2699-2707. (SCIE, EI)

Yu-Chee Tseng

Publications List

- (96) W. Chu and Y.-C. Tseng, "[Performance Analysis of IEEE 802.11 DCF in a Multi-Rate WLAN](#)", *IEICE Transactions on Communications*, Vol. E90-B, No. 10, Oct. 2007, pp. 2836-44. (SCI, EI)
- (97) Y.-C. Tseng, J.-J. Chen, and Y.-L. Cheng, "[Design and Implementation of a SIP-based Mobile and Vehicular Wireless Network with Push Mechanism](#)", *IEEE Trans. on Vehicular Technology*, Vol. 56, No. 6, Nov. 2007, pp. 3408-20. (SCI, EI)
- (98) C.-Y. Lin, Y.-C. Tseng, T.-H. Lai, and W.-C. Peng, "[Message-efficient In-network Location Management in a Multi-sink Wireless Sensor Network](#)", *Int'l Journal of Sensor Networks*, Vol. 3, No. 1, 2008, pp. 3-15.
- (99) Y.-C. Wang, C.-C. Hu, and Y.-C. Tseng, "[Efficient Placement and Dispatch of Sensors in a Wireless Sensor Network](#)", *IEEE Trans. on Mobile Computing*, Vol. 7, No. 2, Feb. 2008, pp. 262-274. (SCI) (Recipient of the Y. Z. Hsu Scientific Paper Award, by Far Eastern Y. Z. Hsu Science and Technology Memorial Foundation, 2009) (本文榮獲 2009 年第七屆有庠科技論文獎)
- (100) Y.-C. Tseng, M.-S. Pan, and C.-W. Yi, "Wireless Sensor Networks", *Yearbook of Science and Technology*, pp. 379-381, McGraw Hill, 2008.
- (101) Y.-C. Tseng and M.-S. Pan, "[Quick Convergecast in ZigBee Beacon-Enabled Tree-Based Wireless Sensor Networks](#)", *Computer Communications*, Vol. 31, No. 5, Mar. 2008, pp. 999-1011. (SCIE, EI)
- (102) C.-W. Lee, J. Liu, K. Chen, Y.-C. Tseng, S.-P. Kuo, "System Study of the Wireless Multimedia Ad-hoc Network based on IEEE 802.11g", *Int'l Journal of Security and Its Applications*, Vol. 2, No. 2, pp. 23-40, April 2008, pp. 23-40.
- (103) T.-Y. Lin, W.-H. Tam, K.-L. Fan, and Y.-C. Tseng, "Resource Planning and Packet Forwarding in Multi-radio, Multi-mode, Multi-channel, Multi-rate (M⁴) Wireless Mesh Networks", *Computer Communications*, Vol. 31, No. 7, May 2008, pp. 1329-42. (SCIE, EI)
- (104) S.-P. Kuo and Y.-C. Tseng, "[A Scrambling Method for Fingerprint Positioning Based on Temporal Diversity and Spatial Dependency](#)", *IEEE Trans. on Knowledge and Data Engineering*, Vol. 20, No. 5, May 2008, pp. 678-684. (SCI, EI)
- (105) P.-Y. Wu, J.-J. Chen, Y.-C. Tseng, and H. Lee, "[Design of QoS and Admission Control for VoIP Services over IEEE 802.11e WLANs](#)", *Journal of Information Science and Engineering*, Vol. 24, No. 4, July 2008. (SCIE, EI)

Yu-Chee Tseng

Publications List

- (106) W. Chu and Y.-C. Tseng, "[A Power Efficient Scheduling Mechanism for an IEEE 802.11 Multiple Rate Ad Hoc Network](#)", *Journal of Computers*, Vol. 19, No. 2, July 2008.
- (107) L.-W. Chen and Y.-C. Tseng, "[Design and Analysis of Contention-based Request Schemes for Best-Effort Traffics in IEEE 802.16 Networks](#)", *IEEE Communications Letters*, Vol. 12, No. 8, Aug. 2008, pp. 602-604. (SCI, EI)
- (108) Y.-C. Wang and Y.-C. Tseng, "[Distributed Deployment Schemes for Mobile Wireless Sensor Networks to Ensure Multi-level Coverage](#)", *IEEE Trans. on Parallel and Distributed Systems*, Vol. 19, No. 9, Sept. 2008, pp. 1280-94. (SCI, EI)
- (109) M.-S. Pan, L.-W. Yeh, Y.-A. Chen, Y.-H. Lin, and Y.-C. Tseng, "[A WSN-based Intelligent Light Control System Considering User Activities and Profiles](#)", *IEEE Sensors Journal*, Vol. 8, No. 10, Oct. 2008, pp. 1710-21. (SCIE, EI).
- (110) L.-W. Yeh, Y.-C. Wang, and Y.-C. Tseng, "[iPower: An Energy Conservation System for Intelligent Buildings by Wireless Sensor Networks](#)", *Int'l J. of Sensor Networks*, Vol. 5, No. 1, 2009, pp. 1-10.
- (111) L.-W. Chen, Y.-C. Tseng, Y.-C. Wang, D.-W. Wang, and J.-J. Wu, "[Exploiting Spectral Reuse in Routing, Resource Allocation, and Scheduling for IEEE 802.16 Mesh Networks](#)", *IEEE Trans. on Vehicular Technology*, Vol. 58, No. 1, Jan. 2009, pp. 301-313. (SCI, EI)
- (112) Y.-C. Wang, Y.-Y. Hsieh, and Y.-C. Tseng, "[Multiresolution Spatial and Temporal Coding in a Wireless Sensor Network for Long-Term Monitoring Applications](#)", *IEEE Trans. on Computers*, Vol. 58, No. 6, June 2009, pp. 827-838. (SCI, EI)
- (113) P.-Y. Chen, W.-T. Chen, Y.-C. Tseng, and C.-F. Huang, "[Providing Group Tour Guide by RFIDs and Wireless Sensor Networks](#)", *IEEE Trans. on Wireless Communications*, Vol. 8, No. 6, June 2009, pp. 3059-67. (SCI, EI)
- (114) M.-S. Pan and Y.-C. Tseng, "[A Lightweight Network Repair Scheme for Data Collection Applications in ZigBee WSNs](#)", *IEEE Communications Letters*, Vol. 13, No. 9, Sep. 2009, pp. 649-651. (SCI, EI)
- (115) S.-P. Kuo, H.-J. Kuo, and Y.-C. Tseng, "[The Beacon Movement Detection Problem in Wireless Sensor Networks for Localization Applications](#)", *IEEE Trans. on Mobile Computing*, Vol. 8, No. 10, Oct. 2009, pp. 1326-38. (SCI)
- (116) C.-H. Tsai, T.-W. Hsu, M.-S. Pan, and Y.-C. Tseng, "[Cross-Layer,](#)

Yu-Chee Tseng

Publications List

- [Energy-Efficient Design for Supporting Continuous Queries in Wireless Sensor Networks: A Quorum-Based Approach](#)", *Wireless Personal Communications*, Vol. 51, No. 3, Nov. 2009, pp. 411-426. (SCI, EI)
- (117) F.-J. Wu and Y.-C. Tseng, "[Distributed Wake-up Scheduling for Data Collection in Tree-Based Wireless Sensor Networks](#)", *IEEE Communications Letters*, Vol. 13, No. 11, Nov. 2009, pp. 850-852. (SCI, EI)
- (118) M.-S. Pan, C.-H. Tsai, and Y.-C. Tseng, "[The Orphan Problem in ZigBee Wireless Networks](#)", *IEEE Trans. on Mobile Computing*, Vol. 8, No. 11, Nov. 2009, pp. 1573-84. (SCI, EI)
- (119) L.-W. Chen, W. Chu, Y.-C. Tseng, and J.-J. Wu, "[Route Throughput Analysis with Spectral Reuse for Multi-Rate Mobile Ad Hoc Networks](#)", *Journal of Information Science and Engineering*, Vol. 25, 2009, pp. 1593-1604. (SCIE, EI)
- (120) W.-H. Yang, Y.-C. Wang, Y.-C. Tseng, and B.-S. Lin, "[Energy-Efficient Network Selection with Mobility Pattern Awareness in an Integrated WiMAX and WiFi Network](#)", *Int'l J. of Communication Systems*, Vol. 23, 2010, pp. 213-230. (SCI)
- (121) C.-Y. Lin, Y.-C. Tseng, and Y.-C. Liu, "Imprecision-Tolerant Location Management for Object-Tracking Wireless Sensor Networks", *The Computer Journal*, Vol. 53, No. 3, March 2010, pp. 351-364. (SCI, EI)
- (122) L.-W. Yeh, C.-Y. Lu, C.-W. Kou, Y.-C. Tseng, and C.-W. Yi, "[Autonomous Light Control by Wireless Sensor and Actuator Networks](#)", *IEEE Sensors Journal*, Vol. 10, No. 6, June 2010, pp. 1029-1041. (SCIE, EI).
- (123) J.-M. Liang, H.-C. Wu, J.-J. Chen, and Y.-C. Tseng, "[Mini-Slot Scheduling for IEEE 802.16d Chain and Grid Mesh Networks](#)", *Computer Communications*, Vol. 33, No. 17, Nov. 2010, pp. 2048-56. (SCIE, EI).
- (124) Y.-C. Wang, W.-C. Peng, and Y.-C. Tseng, "[Energy-Balanced Dispatch of Mobile Sensors in a Hybrid Wireless Sensor Network](#)", *IEEE Trans. on Parallel and Distributed Systems*, Vol. 21, No. 12, Dec. 2010, pp. 1836-1850. (SCI, EI)
- (125) S.-P. Kuo and Y.-C. Tseng, "[Discriminant Minimization Search for Large-Scale RF-based Localization Systems](#)", *IEEE Trans. on Mobile Computing*, Vol. 10, No. 2, Feb. 2011, pp. 291-304. (SCI).
- (126) L.-W. Chen, Y.-H. Peng, and Y.-C. Tseng, "[An Infrastructure-less Framework for Preventing Rear-End Collisions by Vehicular Sensor Networks](#)", *IEEE*

Yu-Chee Tseng

Publications List

- Communications Letters*, Vol. 15, No. 3, March 2011, pp. 358-360. (SCI, EI)
- (127) J.-M. Liang, J.-J. Chen, Y.-C. Wang, and Y.-C. Tseng, "[A Cross-Layer Framework for Overhead Reduction, Traffic Scheduling, and Burst Allocation in IEEE 802.16 OFDMA Networks](#)", *IEEE Trans. on Vehicular Technology*, Vol. 60, No. 4, May 2011, pp. 1740-55. (SCI, EI)
- (128) J.-J. Chen, L. Lee, and Y.-C. Tseng, "[Integrating SIP and IEEE 802.11e to Support Handoff and Multi-grade QoS for VoIP-over-WLAN Applications](#)", *Computer Networks*, Vol. 55, No. 8, June 2011, pp. 1719-34. (SCIE)
- (129) F.-J. Wu, Y.-F. Kao, and Y.-C. Tseng, "[From Wireless Sensor Networks toward Cyber Physical Systems](#)", *Pervasive and Mobile Computing*, Vol. 7, No. 4, Aug. 2011, pp. 397-413.
- (130) Y.-C. Tseng, J.-J. Chen, and Y.-C. Yang, "[Managing Power Saving Classes in IEEE 802.16 Wireless MANs: A Fold-and-Demultiplex Method](#)", *IEEE Trans. on Mobile Computing*, Vol. 10, No. 9, Sept. 2011, pp. 1237-47. (SCI)
- (131) C.-H. Wu and Y.-C. Tseng, "[Data Compression by Temporal and Spatial Correlations in a Body-Area Sensor Network: A Case Study in Pilates Motion Recognition](#)", *IEEE Trans. on Mobile Computing*, Vol. 10, No. 10, Oct. 2011, pp. 1459-72. (SCI)
- (132) J.-M. Liang, Y.-C. Wang, J.-J. Chen, and Y.-C. Tseng, "[Energy-Efficient Uplink Resource Allocation for IEEE 802.16j Transparent-Relay Networks](#)", *Computer Networks*, Vol. 55, No. 16, Nov. 2011, pp. 3705-20. (SCIE)
- (133) J.-J. Chen, S.-L. Wu, S.-W. Wang, and Y.-C. Tseng, "[Per-Flow Sleep Scheduling for Power Management in IEEE 802.16 Wireless Networks](#)", *Computer Networks*, Vol. 55, No. 16, Nov. 2011, pp. 3721-33. (SCIE)
- (134) S.-C. Hu, Y.-C. Wang, C.-Y. Huang, and Y.-C. Tseng, "[Measuring Air Quality in City Areas by Vehicular Wireless Sensor Networks](#)", *Journal of Systems and Software*, Vol. 84, No. 11, Nov. 2011, pp. 2005-12. (SCIE)
- (135) J.-M. Liang, J.-J. Chen, C.-W. Liu, Y.-C. Tseng, and B.-S. Lin, "[On Tile-and-Energy Allocation in OFDMA Broadband Wireless Networks](#)", *IEEE Communications Letters*, Vol. 15, No. 12, Dec. 2011, pp. 1284-1287. (SCI, EI)
- (136) Y.-C. Wang, F.-J. Wu, and Y.-C. Tseng, "[Mobility Management Algorithms and Applications for Mobile Sensor Networks](#)", *Wireless Communications and Mobile Computing*, Vol. 12, No. 1, Jan. 2012, pp. 7-21. (SCIE)
- (137) L.-W. Yeh, M.-H. Hsu, H.-Y. Huang, and Y.-C. Tseng, "[Design and](#)

Yu-Chee Tseng

Publications List

- [Implementation of a Self-Guided Indoor Robot based on a Two-Tier Localization Architecture](#)", *Pervasive and Mobile Computing*. (to appear)
- (138) Y.-C. Wang, Y.-F. Chen, and Y.-C. Tseng, "[Using Rotatable and Directional \(R&D\) Sensors to Achieve Temporal Coverage of Objects and Its Surveillance Application](#)", *IEEE Trans. on Mobile Computing*, Vol. xx, No. xx, mm/yy, pp. xxx. (SCI).
- (139) F.-J. Wu and Y.-C. Tseng, "[Energy-Conserving Data Gathering by Mobile Mules in a Spatially Separated Wireless Sensor Network](#)", *Wireless Communications and Mobile Computing*. (SCIE) (to appear).
- (140) C.-C. Lo, L.-Y. Hsu, and Y.-C. Tseng, "[Adaptive Radio Maps for Pattern-Matching Localization via Inter-Beacon Co-calibration](#)", *Pervasive and Mobile Computing*, Vol. xx, No. yy, mm/yy, pp. xx.
- (141) Y.-C. Wang, C.-H. Chuang, Y.-C. Tseng, and C.-C. Shen, "[A Lightweight, Self-Adaptive Lock Gate Designation Scheme for Data Collection in Long-Thin Wireless Sensor Networks](#)", *Wireless Communications and Mobile Computing*. (SCIE) (to appear)
- (142) W.-H. Yang, Y.-C. Wang, Y.-C. Tseng, and B.-S. Lin, "[A Request Control Scheme for Data Recovery in DVB-IPDC Systems with Spatial and Temporal Packet Loss](#)", *Wireless Communications and Mobile Computing*. (SCIE) (to appear)
- (143) C.-H. Tsai and Y.-C. Tseng, "[A Path-Connected-Cluster Wireless Sensor Network and its Formation, Addressing, and Routing Protocols](#)", *IEEE Sensors Journal*, Vol. xx, No. xx, yy, pp. xx. (SCIE, EI). (to appear)
- (144) M.-S. Pan and Y.-C. Tseng, "[ZigBee-based Long-Thin Wireless Sensor Networks: Address Assignment and Routing Schemes](#)", *Int'l J. of Ad Hoc and Ubiquitous Computing*. (to appear)
- (145) W.-H. Yang, Y.-C. Wang, and Y.-C. Tseng, "[Efficient Packet Recovery Using Prioritized Network Coding in DVB-IPDC Systems](#)", *IEEE Communications Letters*, Vol. xx, No. xx, mm/yy, pp. xx. (SCI, EI)
- (146) C.-Y. Lin, Y.-C. Tseng, and T.-H. Lai, "[Exploit Spatial Correlation at the Link Layer for Event-driven Sensor Networks](#)", *Int'l J. of Sensor Networks*, Vol. xx, No. xx, mm/yy, pp. xx.
- (147) C.-H. Wu and Y.-C. Tseng, "[Exploiting Multi-Spatial Correlations of Motion Data in a Body Sensor Network](#)", *IEEE Communications Letters*, Vol. xx, No. xx, mm/yy, pp. xx. (SCI, EI)

Yu-Chee Tseng

Publications List

2. Conference Papers

- (1) T.-H. Lai, Y.-C. Tseng, and X. Dong, "A More Efficient Message-Optimal Algorithm for Distributed Termination Detection", *Int'l Parallel Processing Symp.*, 1992, pp. 646-649.
- (2) Y. M. Kim, T.-H. Lai, and Y.-C. Tseng, "Compacting Free Buddy Subcubes in a Hypercube", *Int'l Conf. on Parallel Processing*, 1992, Vol. III, pp. 355-358.
- (3) Y.-C. Tseng, T.-H. Lai, and L.-F. Wu, "Low-congestion Embedding of Multiple Graphs in a Hypercube", *Int'l Conf. on Parallel and Distributed Systems*, 1992, pp. 378-385.
- (4) L.-F. Wu, T.-H. Lai, and Y.-C. Tseng, "[Consensus and Termination Detection in the Presence of Faulty Processes](#)", *Int'l Conf. on Parallel and Distributed Systems*, 1992, pp. 267-274.
- (5) Y.-C. Tseng and D. K. Panda, "A Trip-based Multicasting Model for Wormhole-routed Networks with Virtual Channels", *Int'l Parallel Processing Symp.*, 1993, pp. 276-283.
- (6) Y.-C. Tseng and T.-H. Lai, "Ring Embedding in an Injured Hypercube", *Int'l Conf. on Parallel Processing*, 1993, Vol. III, pp. 149-152.
- (7) Y.-C. Tseng and T.-H. Lai, "Resilient and Flexible Ring Embedding in an Injured Hypercube", *Int'l Conf. on Parallel and Distributed Systems*, 1993, pp. 326-333.
- (8) Y.-C. Tseng and T.-H. Lai, "On the Embedding of a Class of Regular Graphs in a Faulty Hypercubes", *Int'l Conf. on Parallel and Distributed Systems*, 1994, pp. 488-495.
- (9) Y.-C. Tseng, S.K.S. Gupta, and D.K. Panda, "An Efficient Scheme for Complete Exchange in 2D Tori", *Int'l Parallel Processing Symp.*, 1995, pp. 532-536.
- (10) Y.-C. Tseng and S.K.S. Gupta, "All-to-all Personalized Communication in a Wormhole-routed Torus", *Int'l Conf. on Parallel Processing*, 1995, pp. 76-79.
- (11) T. Chen, Y.-C. Tseng, and J.-P. Sheu, "Balanced Spanning Trees in Complete and Incomplete Star Graphs", *Int'l Conf. on High Performance Computing*, 1995, India, pp. 605-610.
- (12) Y.-C. Tseng, S.-H. Chang, and J.-P. Sheu, "Fault-Tolerant Ring Embedding in Star Graphs", *Int'l Parallel Processing Symp.*, 1996, pp. 660-665.
- (13) T.-Y. Juang, Y.-C. Tseng, and F.-K. Sheu, "Diagnosis Strategies for the n-star

Yu-Chee Tseng

Publications List

- Multiprocessor Systems”, *Int'l Conf. on System Engineering*, 1996, pp. 479-484.
- (14) S.-Y. Wang, Y.-C. Tseng, and C.-W. Ho, “[Efficient Single-Node Broadcast in Wormhole-Routed Multicomputers: A Network-Partitioning Approach](#)”, *Symp. on Parallel and Distrib. Process.*, 1996, pp. 178-185.
- (15) S.-Y. Wang, Y.-C. Tseng, and C.-W. Ho, “[Efficient Multicast in Wormhole-Routed 2D Mesh/Torus Multicomputers: A Network-Partitioning Approach](#)”, *Symp. on the Frontiers of Massively Parallel Computation*, 1996, pp. 42-49.
- (16) Y.-C. Tseng, “An Efficient Scheme for Embedding a Ring into an Injured Hypercube with Both Faulty Links and Faulty Nodes”, *Int'l Conf. on High Performance Computing*, 1996, India, pp. 165-169.
- (17) T.-Y. Juang, Y.-C. Tseng, and M.-H. Yang, “[An Euler-Path-Based Multicasting Model for Wormhole-Routed Networks: Its Applications to Damaged 2D Tori and Meshes](#)”, *Int'l Performance, Computing, and Communications Conf.*, 1997, pp. 444-450.
- (18) Y.-C. Tseng, T.-Y. Juang, and M.-C. Du, “[Some Heuristics and Experiments for Building a Multicasting Tree in a High-Speed Network](#)”, *HPC Asia'97 Conference*, 1997, Korea, pp. 248-253.
- (19) Y.-C. Tseng, T.-Y. Juang, and M.-C. Du, “Some Heuristics and Experiments for Building a Multicasting Tree in a Hypercube Network”, *1997 Workshop on Distributed System Technology and Applications*, National Cheng-Kung Univ., Taiwan.
- (20) Y.-C. Tseng, T.-H. Lai, and Y. M. Kim, “[Parallel Compacting Free Buddy Subcubes in a Circuit-Switched Hypercube](#)”, *IASTED Int'l Conf. on Parallel and Distributed Computing and Systems*, 1997, pp. 53-58.
- (21) Y.-C. Tseng, “[Multi-Node Broadcasting in Hypercubes and Star Graphs](#)”, *IEEE Int'l Conf. on Algorithms and Architectures for Parallel Processing (ICA3PP'97)*, pp. 51-58.
- (22) T.-Y. Juang, Y.-C. Tseng, Y.-S. Chen, and C.-C. Tsai, “[An Adaptive Processor Allocation Strategy in a Partitionable Two-Dimensional Buddy System](#)”, *IEEE Int'l Conf. on Algorithms and Architectures for Parallel Processing (ICA3PP'97)*, pp. 345-352.
- (23) Y.-S. Chen, Y.-C. Tseng, T.-Y. Juang, and C.-J. Chang, “[Embedding of Congestion-Free Complete Binary Trees with Dilation Two in Star Graphs](#)”,

Yu-Chee Tseng

Publications List

- IEEE Int'l Conf. on Algorithms and Architectures for Parallel Processing (ICA3PP'97)*, pp. 331-344.
- (24) Y.-C. Tseng, S.-Y. Ni, and J.-P. Sheu, "[Toward Optimal Complete Exchange on Wormhole-Routed Tori](#)", *Int'l Conf. on Parallel and Distrib. Sys.*, 1997, pp. 96-103.
- (25) Y.-C. Tseng and S.-Y. Wang, "[Near-Optimal Broadcast in All-Port Wormhole-Routed 3D Tori with Dimensional-Ordered Routing](#)", *Hawaii International Conference on System Sciences*, 1998, pp. III-253-262.
- (26) Y.-C. Tseng and C.-C. Tan, "[A Hybrid Termination Detection Protocol for Wireless Mobile Distributed Systems](#)", *Int'l Symp. on Internet Technology*, 1998, pp. 167-172.
- (27) Y.-S. Chen, J.-P. Sheu, and Y.-C. Tseng, "Toward Optimal Ring Embedding in the Faulty Star Graph", *Int'l Conf. on Parallel and Distributed Processing Techniques and Applications*, 1998, pp. II-629-636.
- (28) S.-Y. Wang and Y.-C. Tseng, "[Algebraic Foundations and Broadcasting Algorithms for Wormhole-Routed All-Port Tori](#)", *Int'l Conf. on Parallel Processing*, 1998, pp. 543-550.
- (29) Y.-C. Tseng, M.-H. Yang, and T.-Y. Juang, "[An Euler-Path-Based Multicasting Model for Wormhole-Routed Networks with Multi-Destination Capability](#)", *Int'l Conf. on Parallel Processing*, 1998, 366-373.
- (30) Y.-C. Tseng and C.-C. Tan, "[On Termination Detection Protocols in a Mobile Distributed Computing Environment](#)", *Int'l Conf. on Parallel and Distributed Systems*, 1998, pp. 156-163.
- (31) K.-W. Chen, M.-H. Yang, Y.-C. Tseng, and J.-P. Sheu, "[Channel-Combine Strategies for On-Demand Multicast on Mobile Wireless Networks](#)", *Int'l Computer Symposium, Workshop on Computer Networks, Internet, and Multimedia*, Taiwan, 1998, pp. 60-67.
- (32) S.-Y. Wang, Y.-C. Tseng, S.-Y. Ni, J.-P. Sheu, "[Circuit-Switched Broadcast in Multi-port 2D Tori](#)", *High Performance Computing and Networking*, 1999, pp. 1159-1162 (also in Lecture Notes in Computer Science 1593).
- (33) S.-L. Wu, T.-K. Lin, Y.-C. Tseng, and J.-P. Sheu, "[Route Optimization on Wireless Mobile Ad-Hoc Networks](#)", *The 5th Mobile Computing Workshop*, 1999, Taiwan, pp. 143-150.
- (34) S.-Y. Ni, Y.-C. Tseng, Y.-S. Chen, and J.-P. Sheu, "[The Broadcast Storm Problem in a Mobile Ad hoc Network](#)", *ACM/IEEE Int'l Conf. on Mobile*

Yu-Chee Tseng

Publications List

- Computing and Networking (MobiCom'99)*, 1999, pp. 151-162.
- (35) S.-Y. Wang, Y.-C. Tseng, S.-Y. Ni, and J.-P. Sheu, “[Circuit-Switched Broadcasting in Multi-Port Multi-Dimensional Torus Networks](#)”, *Euro-Par Conference*, 1999, pp. 1209-21 (Distinguished Paper) (also in Lecture Notes in Computer Science 1685).
- (36) Y.-S. Chen, Y.-C. Tseng, and C.-Y. Chen, “[Multi-Node Broadcasting in a Wormhole-Routed 2-D Torus Using an Aggregation-then-Distribution Strategy](#)”, *Int'l Workshop on Group Communication (associated with Int'l Conf. on Parallel Processing, 1999)*, pp. 50-55.
- (37) S.-L. Wu, Y.-C. Tseng, and J.-P. Sheu, “[Intelligent Medium Access for Mobile Ad Hoc Networks with Busy Tones and Power Control](#)”, *Int'l Conf. on Computer Communications and Networks*, 1999, pp. 71-76.
- (38) C.-C. Tan, Y.-C. Tseng, S.-Y. Ni, S.-L. Wu, J.-P. Sheu, “[Implementation and Performance Test of a Mobile Ad Hoc Network Routing Protocol](#)”, *National Computer Symp., Workshop on Mobile Computing*, pp. C-504-511, Taiwan, 1999. (in Chinese)
- (39) S.-L. Wu, S.-Y. Ni, Y.-C. Tseng, and J.-P. Sheu, “[Route Maintenance in a Wireless Mobile Ad Hoc Network](#)”, *Hawaii Int'l Conf. on System Sciences (HICSS-33)*, 2000.
- (40) Y.-C. Tseng, C.-M. Hsieh, M.-H. Yang, W.-H. Liao, and J.-P. Sheu, “[Data Broadcasting and Seamless Channel Transition for Highly-Demanded Videos](#)”, *IEEE INFOCOM*, 2000, pp. 727-736.
- (41) S.-Y. Wang, Y.-C. Tseng, C.-S. Shiu, and J.-P. Sheu, “[Balancing Traffic Load for Multi-Node Multicast in a Wormhole 2D Torus/Mesh](#)”, *Int'l Parallel and Distributed Processing Symp.*, 2000, pp. 611-616.
- (42) Y.-Y. Chen, H.-K. Pan, and Y.-C. Tseng, “[A Secure Data Hiding Scheme for Two-Color Images](#)”, *IEEE Symposium on Computers and Communications*, 2000, pp. 750-755.
- (43) M.-H. Yang, Y.-C. Tseng, M.-S. Jian, and C. Lin, “[Multi-Node Multicast in Three and Higher Dimensional Wormhole Tori and Meshes with Load Balance](#)”, *Int'l Conf. on Parallel Processing*, 2000, pp. 25-32.
- (44) Y.-S. Chen, C.-Y. Chen, and Y.-C. Tseng, “Multi-Node Broadcasting in a Wormhole-Routed 3-D Torus Using Aggregation-then-Distribution Strategy”, *Int'l Symp. on High Performance Computing (ISHPC2K)*, Tokyo, Japan, 2000.

Yu-Chee Tseng

Publications List

- (45) S.-L. Wu, C.-Y. Lin, Y.-C. Tseng, and J.-P. Sheu, “[A New Multi-Channel MAC Protocol with On-Demand Channel Assignment for Mobile Ad Hoc Networks](#)”, *Int'l Symp. on Parallel Architectures, Algorithms and Networks (I-SPAN)*, 2000, pp. 232-237.
- (46) Y.-C. Tseng and H.-K. Pan, “[Secure and Invisible Data Hiding in 2-Color Images](#)”, *IEEE INFOCOM*, 2001.
- (47) K.-J. Lin, Y.-C. Tseng, and J.-P. Sheu, “[Channel-Sharing Strategies in Two-Tier Cellular PCS Systems](#)”, *IASTED Int'l Conf. on Applied Informatics*, 2001, pp. 229-234.
- (48) Y.-C. Tseng, S.-Y. Ni, and E.-Y. Shih, “[Adaptive Approaches to Relieving Broadcast Storms in a Wireless Multihop Mobile Ad Hoc Network](#)”, *Int'l Conf. on Distributed Computing Systems*, 2001, pp. 481-488.
- (49) M.-H. Yang, L.-W. Chen, Y.-C. Tseng, and J.-P. Sheu, “[A Traveling Salesman Mobility Model and Its Location Tracking in PCS Networks](#)”, *Int'l Conf. on Distributed Computing Systems*, 2001, pp. 517-523.
- (50) Y.-C. Tseng, S.-L. Wu, C.-Y. Lin, and J.-P. Sheu, “[A Multi-Channel MAC Protocol with Power Control for Multi-Hop Mobile Ad Hoc Networks](#)”, *Int'l Workshop on Wireless Networks and Mobile Computing*, 2001 (in conjunction with ICDCS2001), pp. 419-424.
- (51) W.-H. Liao, Y.-C. Tseng, S.-L. Wang, and J.-P. Sheu, “[A Multi-Path QoS Routing Protocol in a Wireless Mobile Ad Hoc Network](#)”, *IEEE Int'l Conf. on Networking (ICN)*, Vol. 2, pp. 158-167, 2001. (also appears in Telecommunications Systems, Best papers of ICN)
- (52) C.-F. Hunag, Y.-C. Tseng, S.-L. Wu, and J.-P. Sheu, “[Increasing the Throughput of Multihop Packet Radio Networks with Power Adjustment](#)”, *Int'l Conf. on Computer Communication and Networks (ICCCN)*, 2001, pp. 220-225.
- (53) C. Lin, Y.-C. Tseng, and J.-P. Sheu, “[Efficient Single-Node Broadcast in Switched-Based Networks of Workstations with Network Partitioning](#)”, *Int'l Conf. on Computer Communication and Networks (ICCCN)*, 2001, pp. 68-74.
- (54) Y.-C. Tseng, C.-M. Chao, and S.-L. Wu, “[Code Placement and Replacement Strategies for Wideband CDMA OVSF Code Tree Management](#)”, *IEEE GlobeCom*, 2001.
- (55) J.-P. Sheu, C.-H. Liu, S.-L. Wu, and Y.-C. Tseng, “[A Priority MAC Protocol to Support Real-Time Multimedia Traffic in Ad Hoc Networks](#)”, *European*

Yu-Chee Tseng

Publications List

- Wireless*, 2002.
- (56) Y.-S. Chen, Y.-C. Tseng, J.-P. Sheu, and P.-H. Kuo, “[An On-demand, Link-state, Multi-path QoS Routing in a Wireless Mobile Ad Hoc Network](#)”, *European Wireless*, 2002.
- (57) L.-C. Wang, S.-Y. Huang, and Y.-C. Tseng, “[A Novel Interference-Resolving Algorithm to Support Asymmetric Services in TDD-CDMA Systems with Directional Antenna](#)”, *IEEE VTC*, 2002-Spring, T02-078.
- (58) W.-H. Liao, Y.-C. Tseng, and K.-P. Shih, “[A TDMA-based Bandwidth Reservation Protocol for QoS Routing in a Wireless Mobile Ad Hoc Network](#)”, *IEEE ICC*, 2002.
- (59) Y.-C. Tseng, C.-S. Hsu, and T.-Y. Hsieh, “[Power-Saving Protocols for IEEE 802.11-Based Multi-Hop Ad Hoc Networks](#)”, *IEEE INFOCOM*, 2002.
- (60) C.-S. Hsu and Y.-C. Tseng, “[An Efficient Reliable Broadcasting Protocol for Wireless Mobile Ad Hoc Networks](#)”, *IASTED Networks, Parallel and Distributed Processing, and Applications (NPDPA)*, 2002, Japan, pp. 93-98.
- (61) Y.-C. Tseng and T.-Y. Hsieh, “[Fully Power-aware and Location-aware Protocols for Wireless Multi-Hop Ad Hoc Networks](#)”, *ICCCN*, 2002.
- (62) Y.-C. Tseng, Y.-N. Chang, and P.-H. Tseng, “[Energy-Efficient Topology Control for Wireless Ad Hoc Sensor Networks](#)”, *Int’l Computer Symp.*, 2002.
- (63) Y.-C. Tseng, S.-P. Kuo, H.-W. Lee, and C.-F. Huang, “[A Mobile-Agent Approach for Location Tracking in a Wireless Sensor Network](#)”, *Int’l Computer Symp.*, 2002.
- (64) T.-Y. Lin, Y.-C. Tseng, and Y.-T. Lu, “[An Efficient Link Polling Policy by Pattern Matching for Bluetooth Piconets](#)”, *Hawaii Int’l Conf. on System Sciences (HICSS)*, 2003.
- (65) T.-Y. Lin, Y.-C. Tseng, and K.-M. Chang, “[Formation, Routing, and Maintenance Protocols for the BlueRing Scatternet of Bluetooths](#)”, *Hawaii Int’l Conf. on System Sciences (HICSS)*, 2003.
- (66) C.-S. Hsu, J.-P. Sheu, and Y.-C. Tseng, “[Minimize Waiting Time and Conserve Energy by Scheduling Transmissions in IEEE 802.11-based Ad Hoc Networks](#)”, *Int’l Conf. on Telecommunications (ICT)*, 2003.
- (67) C.-M. Chao, Y.-C. Tseng, and L.-C. Wang, “[Reducing Internal and External Fragmentations of OVSF Codes in WCDMA Systems with Multiple Codes](#)”, *IEEE Wireless Communications and Networking Conf. (WCNC)*, 2003.
- (68) Y.-C. Tseng, S.-P. Kuo, H.-W. Lee, and C.-F. Huang, “[Location Tracking in a](#)

Yu-Chee Tseng

Publications List

- [Wireless Sensor Network by Mobile Agents and Its Data Fusion Strategies](#)”, *Int’l Workshop on Information Processing in Sensor Networks (IPSN)*, 2003. (also in Lecture Notes in Computer Science, LNCS 2634, pp. 625-641)
- (69) C.-M. Chao, Y.-C. Tseng, and L.-C. Wang, “[Dynamic Bandwidth Allocation for Multimedia Traffic with Rate Guarantee and Fair Access in WCDMA Systems](#)”, *ACM Int’l Workshop on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM)*, 2003 (in conjunction with ACM MobiCom 2003).
- (70) C.-F. Huang and Y.-C. Tseng, “[The Coverage Problem in a Wireless Sensor Network](#)”, *ACM Int’l Workshop on Wireless Sensor Networks and Applications (WSNA)*, 2003 (in conjunction with ACM MobiCom 2003).
- (71) Y.-C. Tseng, J.-R. Jiang, and J.-H. Lee, “[Secure Bootstrapping and Routing in an IPv6-based Ad Hoc Network](#)”, *Workshop on Wireless Security and Privacy*, 2003 (in conjunction with Int’l Conf. on Parallel Processing, 2003).
- (72) J.-R. Jiang, Y.-C. Tseng, C.-S. Hsu, and T.-H. Lai, “[Quorum-Based Asynchronous Power-Saving Protocols for IEEE 802.11 Ad Hoc Networks](#)”, *Int’l Conf. on Parallel Processing*, 2003 (recipient of the Best Paper Award).
- (73) S.-R. Ye, Y.-C. Wang, and Y.-C. Tseng, “[A Jamming-Based MAC Protocol for Wireless Multihop Ad Hoc Networks](#)”, *IEEE VTC*, 2003-Fall.
- (74) C.-F. Huang, H.-W. Lee, and Y.-C. Tseng, “[A Two-Tier Heterogeneous Mobile Ad Hoc Network Architecture and Its Load-Balance Routing Problem](#)”, *IEEE VTC*, 2003-Fall.
- (75) T.-Y. Lin and Y.-C. Tseng, “[Collision Analysis for a Multi-Bluetooth Picocells Environment](#)”, *IEEE VTC*, 2003-Fall.
- (76) L.-C. Wang, S.-Y. Huang, and Y.-C. Tseng, “Interference Analysis of TDD-CDMA Systems with Directional Antennas”, *IEEE VTC*, 2003-Fall.
- (77) J.-R. Jiang, Y.-C. Tseng, and B.-R. Linn, “[A Mechanism for Quick Bluetooth Device Discovery](#)”, *Mobile Computing Workshop*, 2004, Taiwan. (recipient of the Excellent Paper Award)
- (78) Y.-C. Wang, S.-R. Ye, and Y.-C. Tseng, “[A Fair Scheduling Algorithm with Traffic Classification in Wireless Networks](#)”, *Int’l Symp. on Performance Evaluation of Computer and Telecommunication Systems (SPECTS)*, 2004.
- (79) Y.-C. Tseng, W. Chu, L.-W. Chen, and C.-M. Yu, “[Route Throughput Analysis for Mobile Multi-Rate Wireless Ad Hoc Networks](#)”, *Broadband Wireless Networking Symp. (BroadNet)*, 2004.

Yu-Chee Tseng

Publications List

- (80) C.-Y. Lin and Y.-C. Tseng, "[Structures for In-Network Moving Object Tracking in Wireless Sensor Networks](#)", *Broadband Wireless Networking Symp. (BroadNet)*, 2004.
- (81) C.-F. Huang, Y.-C. Tseng, and L.-C. Lo, "[The Coverage Problem in Three-Dimensional Wireless Sensor Networks](#)" *IEEE Globecom*, 2004.
- (82) Y.-Y. Hsu, Y.-C. Tseng, C.-C. Tseng, C.-F. Huang, J.-H. Fan, and H.-L. Wu, "[Design and Implementation of Two-tier Mobile Ad Hoc Networks with Seamless Roaming and Load-balancing Routing Capacity](#)", *Int'l Conf. on Quality of Service in Heterogeneous Wired/Wireless Networks (QShine)*, 2004.
- (83) S.-P. Kuo, Y.-C. Tseng, F.-J. Wu, and C.-Y. Lin, "[A Probabilistic Signal-Strength-Based Evaluation Methodology for Sensor Network Deployment](#)", *Int'l Conf. on Advanced Information Networking and Applications (AINA)*, 2005.
- (84) C.-S. Hsu and Y.-C. Tseng, "[Cluster-base Semi-asynchronous Power-Saving Protocols for Multi-hop Ad Hoc Networks](#)", *IEEE Int'l Conf. on Communications (ICC)*, 2005.
- (85) C.-F. Huang, L.-C. Lo, Y.-C. Tseng, and W.-T. Chen, "[Decentralized Energy-Conserving and Coverage-Preserving Protocols for Wireless Sensor Networks](#)", *Int'l Symp. on Circuits and Systems (ISCAS)*, 2005.
- (86) Y.-C. Wang, C.-C. Hu, and Y.-C. Tseng, "[Efficient Deployment Algorithms for Ensuring Coverage and Connectivity of Wireless Sensor Networks](#)", *Wireless Internet Conf. (WICON)*, 2005.
- (87) Y.-C. Wang, Y.-C. Tseng, and W.-T. Chen, "[MR-FQ: A Fair Scheduling Algorithm for Wireless Networks with Variable Transmission Rates](#)", *Int'l Conf. on Information Technology: Research and Education (ITRE)*, 2005.
- (88) S.-R. Ye and Y.-C. Tseng, "A Multi-Chain Backoff Mechanism for IEEE 802.11 WLANs", Workshop on Wireless, *Ad Hoc, and Sensor Networks*, 2005, Taiwan.
- (89) Y.-C. Tseng, Y.-C. Wang, and K.-Y. Cheng, "[An Integrated Mobile Surveillance and Wireless Sensor \(iMouse\) System and Its Detection Delay Analysis](#)", *ACM Int'l Symp. on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM)*, 2005.
- (90) P.-Y. Wu, Y.-C. Tseng, and H. Lee, "[Design of QoS and Admission Control for VoIP Traffics over IEEE 802.11e WLANs](#)", *National Computer Symposium*,

Yu-Chee Tseng

Publications List

- 2005, Taiwan. (recipient of the Best Paper Awards in NCS 2005)
- (91) P.-J. Huang, Y.-C. Tseng, and K.-C. Tsai, “[A Fast Handoff Mechanism for IEEE 802.11 and IAPP Networks](#)”, *IEEE Vehicular Technology Conf.*, 2006-Spring.
- (92) C.-Y. Lin, Y.-C. Tseng, and T.-H. Lai, “[Message-Efficient In-Network Location Management in a Multi-sink Wireless Sensor Network](#)”, *IEEE Int’l Conf. on Sensor Networks, Ubiquitous, and Trustworthy Computing*, 2006.
- (93) C.-H. Lin, S.-P. Kuo, Y.-J. Kuo, K.-T. Song, and Y.-C. Tseng, “[Visualization Design for Location-Aware Services](#)”, *IEEE Int’l Conf. on Systems, Man, and Cybernetics*, 2006.
- (94) J.-J. Chen, Y.-L. Cheng, Y.-C. Tseng, Q. Wu, “[A Push-Based VoIP Service for an Internet-Enabled Mobile Ad Hoc Network](#)”, *IEEE Asia Pacific Wireless Communications Symp.*, 2006.
- (95) M.-S. Pan, C.-H. Tsai, and Y.-C. Tseng, “[Implementation of an Emergency Guiding System by Wireless Sensor Networks](#)”, *IEEE Int’l Symp. on Network Computing Applications (IEEE NCA)*, 2006 (Fast Abstract).
- (96) J.-J. Chen, L. Li, and Y.-C. Tseng, “[Integrating SIP and IEEE 802.11e to Support Handoff and Multi-grade QoS for VoIP Applications](#)”, *ACM Int’l Workshop on QoS and Security for Wireless and Mobile Networks*, 2006.
- (97) Y.-C. Tseng and M.-S. Pan, “[Quick Convergecast in ZigBee/IEEE 802.15.4 Tree-Based Wireless Sensor Networks](#)”, *ACM Int’l Workshop on Mobility Management and Wireless Access (ACM MobiWac)*, 2006. (selected as a candidate of the Best Paper Award)
- (98) Y.-C. Tseng, Y.-C. Wang, and L.-W. Yeh, “[iPower: An Energy Conservation System for Intelligent Buildings by Wireless Sensor Networks](#)”, *Int’l Computer Symp.*, 2006.
- (99) W.-H. Tam and Y.-C. Tseng, “[Joint Multi-Channel Link Layer and Multi-Path Routing Design for Wireless Mesh Networks](#)”, *IEEE INFOCOM*, 2007.
- (100) P.-Y. Chen, W.-T. Chen, C.-H. Wu, Y.-C. Tseng, and C.-F. Huang, “[A Group Tour Guide System by RFIDs and Wireless Sensor Networks](#)”, *Information Processing in Sensor Networks (IPSN)*, 2007.
- (101) L.-W. Chen, Y.-C. Tseng, D.-W. Wang, and J.-J. Wu, “[Exploiting Spectral Reuse in Resource Allocation, Scheduling, and Routing for IEEE 802.16 Mesh Networks](#)”, *IEEE VTC*, 2007-Fall.
- (102) S.-P. Kuo, H.-J. Kuo, Y.-C. Tseng, and Y.-F. Lee, “[Detecting Movement of](#)

Yu-Chee Tseng

Publications List

- [Beacons in Location-Tracking Wireless Sensor Networks](#)”, *IEEE VTC*, 2007-Fall.
- (103) Y.-C. Wang, W.-C. Peng, M.-H. Chang, and Y.-C. Tseng, “[Exploring Load-Balance to Dispatch Mobile Sensors in Wireless Sensor Networks](#)”, *Int'l Conf. on Computer Communication and Networks (ICCCN)*, 2007.
- (104) J.-J. Chen, Y.-C. Tseng, and H.-W. Lee, “[A Seamless Handoff Mechanism for IEEE 802.11 WLANs Supporting IEEE 802.11i Security Enhancements](#)”, *IEEE Asia-Pacific Wireless Communications Symposium*, 2007.
- (105) S.-P. Kuo, Y.-C. Tseng, and C.-C. Shen, “[Increasing Search Space for Pattern-Matching Localization Algorithms by Signal Scrambling](#)”, *IEEE Asia-Pacific Wireless Communications Symposium*, 2007.
- (106) S.-P. Kuo, B.-J. Wu, W.-C. Peng, and Y.-C. Tseng, “[Cluster-Enhanced Techniques for Pattern-Matching Localization Systems](#)”, *IEEE Int'l Conf. on Mobile Ad-hoc and Sensor Systems (MASS)*, 2007.
- (107) S.-P. Kuo, S.-C. Lin, B.-J. Wu, Y.-C. Tseng, and C.-C. Shen, “[GeoAds: A Middleware Architecture for Music Service with Location-Aware Advertisement](#)”, *IEEE Int'l Conf. on Mobile Ad-hoc and Sensor Systems (MASS)*, 2007.
- (108) M.-S. Pan and Y.-C. Tseng, “[The Orphan Problem in ZigBee-based Wireless Sensor Networks](#)”, *ACM/IEEE Int'l Symp. on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM)*, 2007.
- (109) W. Chu and Y.-C. Tseng, “A Shortest Time First Scheduling Mechanism for Reducing the Total Power Consumptions of an IEEE 802.11 Multiple Rate Ad Hoc Network”, *IFIP Int'l Conf. on Embedded and Ubiquitous Computing (EUC)*, 2007, pp. 25-32.
- (110) S.-P. Kuo, C.-Y. Lin, H.-W. Fang, Y.-F. Lee, Y.-C. Tseng, C.-T. King, Y.-W. Hong, and C.-L. Wang, “An Experimental Platform for Heterogeneous Wireless Sensor Networks”, *Taiwan-Japan Joint Conf. on Communications Technology*, 2007.
- (111) C.-W. Lee, J. Liu, K. Chen, Y.-C. Tseng, S.-P. Kuo, “[Supporting Multimedia Communication within An 802.11g Ad-hoc Network](#)”, *Int'l Workshop on Wireless Ad Hoc, Mesh and Sensor Networks (In conjunction with Int'l Conf. on Future Generation Communication and Networking)*, Vol. II, pp. 399-404, Jeju-Island, Korea, 2007.
- (112) Y.-C. Wang, Y.-Y. Hsieh, and Y.-C. Tseng, “[Compression and Storage](#)

Yu-Chee Tseng

Publications List

- [Schemes in a Sensor Network with Spatial and Temporal Coding Techniques](#)", *IEEE VTC*, 2008-Spring.
- (113) M.-S. Pan, H.-W. Fang, Y.-C. Liu, and Y.-C. Tseng, "[Address Assignment and Routing Schemes for ZigBee-Based Long-Thin Wireless Sensor Networks](#)", *IEEE VTC*, 2008-Spring.
- (114) M.-S. Pan and Y.-C. Tseng, "[Communication Protocols and Applications for ZigBee-Based Wireless Sensor Networks](#)", *Taiwan-French Conf. on Information Technology*, 2008.
- (115) S.-P. Kuo, C.-Y. Lin, Y.-F. Lee, H.-W. Fang, Y.-W. Hong, H.-C. Lin, Y.-C. Tseng, C.-T. King, C.-L. Wang, "[The NTP Experimental Platform for Heterogeneous Wireless Sensor Networks](#)", *Tridentcom*, 2008, Austria.
- (116) M.-S. Pan, L.-W. Yeh, Y.-A. Chen, Y.-H. Lin, and Y.-C. Tseng, "[Design and Implementation of a WSN-Based Intelligent Light Control System](#)", *Int'l Workshop on Wireless Ad hoc and Sensor Networks*, 2008 (in conjunction with ICDCS).
- (117) L.-W. Ye, M.-S. Pan, and Y.-C. Tseng, "[Two-Way Beacon Scheduling in ZigBee Tree-Based Wireless Sensor Networks](#)", *IEEE Int'l Conf. on Sensor Networks, Ubiquitous, and Trustworthy Computing*, 2008.
- (118) C.-Y. Lin, Y.-C. Tseng, H.-W. Fang, Y.-F. Kao, Y.-F. Lee, and C.-C. Shen, "[Vague Location Tracking in Wireless Sensor Networks](#)", *Asia-Pacific Wireless Communications Symp. (APWCS)*, Japan, 2008.
- (119) L.-W. Yeh, C.-Y. Lu, Y.-H. Lin, J.-L. Liao, Y.-C. Tseng, C. Chen, and C.-W. Yi, "[iLamp: A Sensor-Enhanced Lamp with Surface-Tracking Capability Based on Light Intensity](#)", *IEEE Int'l Conf. on Pervasive Computing and Communications (PerCom)*, 2009. (Texas USA)
- (120) W.-H. Yang , Y.-C. Wang, Y.-C. Tseng, and B.-S. Lin, "[An Energy-Efficient Handover Scheme with Geographic Mobility Awareness in WiMAX-WiFi Integrated Networks](#)", *IEEE Wireless Comm. and Networking Conf. (WCNC)*, 2009. (Budapest, Hungary)
- (121) W.-H. Yang , Y.-C. Wang, Y.-C. Tseng, and B.-S. Lin, "[Spatial and Temporal Packet Recovery Schemes for DVB-H Systems through IP-Relay Wireless Networks](#)", *IEEE ICC*, 2009. (Dresden, Germany)
- (122) F.-J. Wu, C.-F. Huang, and Y.-C. Tseng, "[Data Gathering by Mobile Mules in a Spatially Separated Wireless Sensor Network](#)", *Mobile Data Management*, 2009, Taipei.

Yu-Chee Tseng

Publications List

- (123) Y.-C. Tseng, C.-H. Wu, F.-J. Wu, C.-F. Huang, C.-T. King, C.-Y. Lin, J.-P. Sheu, C.-Y. Chen, C.-Y. Lo, C.-W. Yang, and C.-W. Deng, "[A Wireless Human Motion Capturing System for Home Rehabilitation](#)", *Mobile Data Management*, 2009, Taipei. (Recipient of Best Demo Award)
- (124) F.-J. Wu, H.-C. Hsu, Y.-C. Tseng, and C.-F. Huang, "[Non-Location-Based Mobile Sensor Relocation in a Hybrid Static-Mobile Wireless Sensor Network](#)", *SENSORCOMM*, 2009. (Greece)
- (125) S.-C. Hu, Y.-C. Wang, C.-Y. Huang, and Y.-C. Tseng, "[A Vehicular Wireless Sensor Network for CO2 Monitoring](#)", *IEEE Sensors Conference*, 2009. (New Zealand)
- (126) L.-W. Yeh, M.-S. Hsu, Y.-F. Lee, and Y.-C. Tseng, "[Indoor Localization: Automatically Constructing Today's Radio Map by iRobot and RFIDs](#)", *IEEE Sensors Conference, 2009*. (New Zealand)
- (127) J.-M. Liang, J.-J. Chen, Y.-C. Wang, Y.-C. Tseng, and B.-S. Lin, "[Priority-Based Scheduling Algorithm for Downlink Traffics in IEEE 802.16 Networks](#)", *IEEE Asia-Pacific Wireless Communications Symposium*, 2009.
- (128) J.-M. Liang, C.-W. Wang, L.-C. Wang, and Y.-C. Tseng, "[The Upper Bound of Capacity for a Concurrent-Transmission-Based Ad-Hoc Network with Singal Channel](#)", *IEEE Asia-Pacific Wireless Communications Symposium*, 2009.
- (129) S.-C. Hu, Y.-C. Wang, C.-Y. Huang, Y.-C. Tseng, L.-C. Kuo, and C.-Y. Chen, "[Vehicular Sensing System for CO2 Monitoring Applications](#)", *IEEE Asia-Pacific Wireless Communications Symposium*, 2009.
- (130) C.-H. Tsai, M.-S. Pan, Y.-C. Lu, and Y.-C. Tseng, "[Self-Learning Routing for ZigBee Wireless Mesh Networks](#)", *IEEE Asia-Pacific Wireless Communications Symposium*, 2009.
- (131) L.-W. Chen, K.-Z. Syue, and Y.-C. Tseng, "[VS3: A Vehicular Surveillance and Sensing System for Security Applications](#)", *IEEE Int'l Conf. on Mobile Ad Hoc and Sensor Systems (MASS)*, 2009.
- (132) H.-P. Wang, Y.-T. Chuang, C.-W. Yi, Y.-C. Tseng, and P.-C. Liu, "[XOR-Forwarding for Wireless Networks](#)", *IEEE Globecom*, 2009.
- (133) J.-J. Chen, J.-M. Liang, and Y.-C. Tseng, "[An Energy Efficient Sleep Scheduling Considering QoS Diversity for IEEE 802.16e Wireless Networks](#)", *IEEE ICC*, 2010.
- (134) J.-M. Liang, J.-J. Chen, H.-C. Wu, and Y.-C. Tseng, "[Simple and Regular](#)

Yu-Chee Tseng

Publications List

- [Mini-Slot Scheduling for IEEE 802.16d Grid-based Mesh Networks](#)", *IEEE VTC, 2010-Spring*.
- (135) C.-W. Yi, Y.-T. Chuang, H.-H. Yeh, Y.-C. Tseng, and P.-C. Liu, "[Streetcast: An Urban Broadcast Protocol for Vehicular Ad-Hoc Networks](#)", *IEEE VTC, 2010-Spring*.
- (136) C.-H. Wu, Y.-T. Chang, and Y.-C. Tseng, "[Multi-Screen Cyber-Physical Video Game: An Integration with Body-Area Inertial Sensor Networks](#)", *Int'l Conf. on Pervasive Computing and Communications (PerCom)*, 2010.
- (137) L.-W. Chen, K.-Z. Syue, Y.-C. Tseng, "[A Vehicular Surveillance and Sensing System for Car Security and Tracking Applications](#)", *Information Processing in Sensor Networks (IPSN)*, 2010, Stockholm, Sweden.
- (138) F.-J. Wu, C.-S. Huang, Y.-C. Tseng, "[My Tai-Chi Book: A Virtual-Physical Social Network Platform](#)", *Information Processing in Sensor Networks (IPSN)*, 2010, Stockholm, Sweden.
- (139) Y.-J. Hu, R.-H. Jan, K. Wang, Y.-C. Tseng, T.-H. Ku, S.-F. Yang, and H.-S. Wu, "[An Application of Sensor Networks with Data Mining to Patient Controlled Analgesia](#)", *IEEE Healthcom*, 2010.
- (140) Y.-C. Tseng, W.-T. Lai, C.-F. Huang, and F.-J. Wu, "[Using Mobile Mules for Collecting Data from an Isolated Wireless Sensor Network](#)", *Int'l Conf. on Parallel Processing*, 2010, San Diego, USA.
- (141) J.-M. Liang, Y.-C. Wang, J.-J. Chen, J.-H. Liu, and Y.-C. Tseng, "[Efficient Resource Allocation for Energy Conservation in Uplink Transmissions of IEEE 802.16j Transparent Relay Networks](#)", *MSWiM*, 2010.
- (142) Y.-C. Wang, C.-H. Chuang, Y.-C. Tseng, and C.-C. Shen, "[Dynamic Water Gate Assignment Scheme for Data Aggregation in Long-Thin Sensor Networks](#)", *Int'l Computer Symp.*, 2010, Tainan, Taiwan.
- (143) C.-C. Lo, S.-C. Lin, S.-P. Kuo, Y.-C. Tseng, S.-Y. Peng, S.-M. Huang, Y.-N. Hung, and C.-F. Hung, "[People Help People: A Pattern-Matching Localization with Inputs from User Community](#)", *Int'l Computer Symp.*, 2010, Tainan, Taiwan.
- (144) P.-Y. Chen, H.-M. Lin, W.-T. Chen, and Y.-C. Tseng, "[A Multi-view Visual Surveillance System Based on Angle Coverage](#)", *SenSys*, 2010 (demo paper).
- (145) C.-H. Wu, Y.-T. Chang, and Y.-C. Tseng, "[On Optimization of Accelerometers Deployment for Human Posture Tracking](#)", *Int'l Conf. on Body Sensor Networks*, 2011, Dallas, USA.

Yu-Chee Tseng

Publications List

- (146) L.-W. Chen, P. Sharma, and Y.-C. Tseng, "[Eco-Sign: A Load-Based Traffic Light Control System for Environmental Protection with Vehicular Communications](#)", *SIGCOMM*, 2011 (demo paper).
- (147) F.-J. Wu, F.-I. Chu, and Y.-C. Tseng, "[Cyber-Physical Handshake](#)", *SIGCOMM*, 2011 (demo paper).
- (148) C.-C. Lo, C.-P. Chiu, Y.-C. Tseng, S.-A. Chang, and L.-C. Kuo, "[A Walking Velocity Update Technique for Pedestrian Dead-Reckoning Applications](#)", *PIMRC*, 2011.
- (149) C.-C. Lo, J.-J. Chen, C.-Y. Yang, Y.-C. Tseng, S.-M. Huang, Y.-N. Hung, and C.-M. Tseng, "[From Barren to Beautiful: A Pattern-matching Localization Scheme Integrating Heterogeneous Network Data](#)", APNOMS, 2011.
- (150) L.-W. Chen, J.-H. Cheng, Y.-C. Tseng, L.-C. Kuo, J.-C. Chiang, and W.-J. Lin, "[LEGS: A Load-Balancing Emergency Guiding System Based on Wireless Sensor Networks](#)", PerCom 2012 (demo paper).

3. Book Chapters

- (1) Y.-C. Tseng and M.-H. Yang, A Book Chapter in "[Distributed Multimedia Databases: Techniques and Applications](#)", Idea Group Publishing, edited by T. K. Shih. (publication date: Fall 2001)
- (2) Y.-C. Tseng, W.-H. Liao, and S.-L. Wu, "Mobile Ad Hoc Networks and Routing Protocols" (a book chapter in [Handbook of Wireless Networks and Mobile Computing](#), John Wiley & Sons, Ed. I. Stojmenovic, 2002).
- (3) Y.-C. Tseng and C.-S. Hsu, "Location-aware Routing and Applications of Mobile Ad Hoc Networks" (a book chapter in [The Handbook of Ad Hoc Wireless Networks](#), CRC Press, edited by Mohammad Ilyas, 2003)
- (4) Y.-C. Tseng and T.-Y. Lin, "Power-Conservative Designs in Ad Hoc Wireless Networks" (a book chapter in [The Handbook of Ad Hoc Wireless Networks](#), CRC Press, edited by Mohammad Ilyas, 2003)
- (5) C.-F. Huang, P.-Y. Chen, Y.-C. Tseng, and W.-T. Chen, "Models and Algorithms for Coverage Problems in Wireless Sensor Networks" (a book chapter in "[Theoretical and Algorithmic Aspects of Sensor, Ad Hoc Wireless and Peer-to-Peer Networks](#)", CRC Press, edited by J. Wu, expected 2004).
- (6) C.-F. Huang, S.-P. Kuo, and Y.-C. Tseng, "Positioning and Tracking in Wireless Sensor Networks" (a book chapter in [Handbook of Sensor Networks: Compact Wireless and Wired Sensing Systems](#), CRC Press, 2005).

Yu-Chee Tseng

Publications List

- (7) Y.-C. Wang and Y.-C. Tseng, "Packet Fair Queuing Algorithms for Wireless Networks" (a book chapter in "[Design and Analysis of Wireless Networks](#)", Nova Science Pub., edited by Y. Pan and Y. Xiao, 2004, ISBN: 1-59454-186-8, 2005).
- (8) Y.-C. Tseng and S.-R. Ye, "Wireless LAN MAC Protocols Using Busy Tones and Jamming Signals" (a book chapter in "[Wireless LANs and Bluetooth](#)", Nova Science Pub., edited by Y. Xiao and Y. Pan, ISBN 1-59454-432-8, 2005).
- (9) Y.-C. Wang and Y.-C. Tseng, "Attacks and Defenses of Routing Mechanisms in Ad Hoc and Sensor Networks" (a book chapter in [Security in Sensor Networks](#), CRC Press, 2006, ISBN: 0849370582, edited by Y. Xiao).
- (10) M.-S. Pan and Y.-C. Tseng, "ZigBee Wireless Sensor Networks and Their Applications" (a book chapter in [Sensor Network and Configuration: Fundamentals, Techniques, Platforms, and Experiments](#), Springer-Verlag, edited by N. P. Mahalik).
- (11) C.-M. Chao and Y.-C. Tseng, "Location-based Communication Protocols for Mobile Ad Hoc Networks" (a book chapter in [Mobile Ad Hoc and Pervasive Communications](#), American Scientific Pub., edited by L. Yang and M. Denko).
- (12) W.-H. Yang and Y.-C. Tseng, "Mobile WiMax Networks and Their Integration with WiFi Networks" (a book chapter in [WiMax/MobileFi: Advanced Research and Technology](#), CRC Press, edited by Y. Xiao).
- (13) J.-J. Chen and Y.-C. Tseng, "Fast Handoff Mechanisms for IEEE 802.11 Networks" (a book chapter in [Medium Access Control in Wireless Networks](#), Nova Science Pub., edited by H. Wu and Y. Pan).
- (14) Y.-C. Wang and Y.-C. Tseng, "[Intentional Mobility in Wireless Sensor Networks](#)" (a book chapter in [Wireless Networks: Research, Technology and Applications](#), Nova Science Pub.)

4. Books

- (1) "資料結構", 莊東穎、梁秋國、邱舉明、曾煜棋、陳裕賢合著,空中大學出版.
- (2) "作業系統", 鍾斌賢、曾煜棋、嚴春煌合著,空中大學出版.
- (3) "資料結構", 嚴春煌、曾煜棋合著,空中大學出版.
- (4) "電腦網路", 嚴春煌、曾煜棋合著,空中大學出版, 2004.

Yu-Chee Tseng

Publications List

- (5) “電腦網路”，嚴春煌、郭秋田、曾煜棋合著，空中大學出版，2005.
- (6) “愛麗絲夢遊學習仙境”，陳德懷主編，遠流出版公司，2006（第三章：愛麗絲戶外導覽篇，曾煜棋，王友群合著）
- (7) “無線區域及個人網路--隨意及感測網路之技術與應用”，曾煜棋，潘孟鉉，林致宇著，知城出版，2006.
- (8) S.-L. Wu and Y.-C. Tseng, “Wireless Ad Hoc Networking: Personal-Area, Local-Area, and Sensory-Area Networks”, Auerbach Pub., 2007.
- (9) “無線網路”，曾煜棋，林政寬，林致宇，潘孟鉉著，碁峯出版社，2011.08.

5. Patents (Taiwan, USA, etc.)

- (1) Y.-C. Tseng and T. Ren, "Methods and Systems for Dynamic Load Balance in WLAN", Taiwan Patent No. 229521 (2005.03-2024.1). (曾煜棋，阮騰輝，"動態網路負載平衡方法以及系統")
- (2) L.-D. Chou, Y.-C. Tseng, Y.-W. Chen, and S.-B. Ho, "Systems for Location-Based Mobile Navigation Data Collection and Filtering", Taiwan Patent No. I237184 (2005.08-2021.5). (周立德，曾煜棋，陳彥文，何世邦，"具定位功能的移動式導覽資料收集與篩選處理系統")
- (3) T.-Y. Lin, Y.-C. Tseng, K. -M. Chang, and C. -L. Tu, "A Topology and Methods of Bluetooth Network", Taiwan Patent No. I 239165 (2005.9-2022.12, owned by ITRI). ("藍芽網路拓樸結構及其處理方法")
- (4) S.-P. Kuo, Y.-C. Tseng, C.-J. Lee, and Y.-J. Lin, "Scramble Sample Strategy for Indoor Location Estimation", Taiwan Patent No. I243255 (2005.11-2024.02, owned by ITRI). (郭聖博，李青松，林俊佑，曾煜棋，"使用混亂樣本策略之室內定位方法及系統")
- (5) Y.-C. Tseng, C.-Y. Lin, and B.-R. Lin, "Methods and Systems of Dynamic Channel Allocation for Access Points in Wireless Networks", Taiwan Patent No. I 258276 (2006.7-2024.11, owned by III). (曾煜棋，林致宇，林炳榕，"無線網路以及無線基地台頻道的動態配置方法與系統").
- (6) Y.-R. Kuo, Y.-C. Tseng, and S.-P. Kuo, "Environment- and Sensor-Dependent Localization Methods", Taiwan Patent No. I 296334 (2008/05-2025/12, owned by III). (郭耀仁，曾煜棋，郭聖博，"依環境特徵進行感測組態動態調整之定位系統及其方法")
- (7) P.-Y. Chen, C.-F. Huang, W.-T. Chen, and Y.-C. Tseng, "Group Guiding Methods and Systems Based on Wireless Sensor Networks", Taiwan Patent No. I319947 (2010/01-2026/12, owned by NTHU) (陳柏論，黃啟富，陳文

Yu-Chee Tseng

Publications List

- 村, 曾煜棋, "使用無線感測網路提供群組導引服務之方法及系統")
- (8) L.-C. Ko, C.-W. Deng, Y.-C. Liu, and Y.-C. Tseng, "Channel Switching Method for Beacon Networks", Taiwan Patent No. I333346 (issued 2010/11, owned by ITRI) (柯力群, 鄧淇文, 劉永之, 曾煜棋, "可於一信標網路中轉換頻道之通訊裝置、方法、應用程式及其電腦可讀取記錄媒體")
 - (9) T.-Y. Lin, Y.-C. Tseng, K.-M. Chang, and C.-L. Tu, "Method and System of Bluetooth Network", US Patent No. 7,532,594 (2003/7-2023/6, owned by ITRI).
 - (10) Y.-C. Tseng, C.-Y. Lin, and B.-R. Lin, "Methods and Systems of Dynamic Channel Allocation for Access Points in Wireless Networks", US Patent No. 7,376,099 (2004/12-2024/11, owned by III).
 - (11) L.-C. Ko, C.-W. Teng, Y.-C. Liu, and Y.-C. Tseng, "Communication Apparatus, Method, and Computer Readable Medium Thereof for Switching Channels in a Beacon Network", US Patent No. 7,688,722 (dated 2010.03, owned by III).
 - (12) M.-S. Pan, Y.-A. Chen, T.-C. Chien, Y.-F. Lee, and Y.-C. Tseng, "Automatic Lighting Control System and Method", US Patent No. 7,843,353 (issued 2010/11, owned by ITRI).
 - (13) W.-H. Yang and Y.-C. Tseng, "Transmission Method and Transmission System", US Patent No. 8,019,281 (issued 2011/09, owned by ITRI).
 - (14) S.-P. Kuo, Y.-C. Tseng, and Y.-F. Lee, "Algorithm of Collecting and Constructing Training Location Data in a Positioning System and the Positioning Method Therefor", US Patent No. 8,102,315 (issued 2012/01/24, owned by ITRI).
 - (15) C.-H. Tsai, C.-Y. Chen, Y.-C. Lu, Y.-C. Tseng and L.-C. Kuo, "Multicast Communication Method, Accompanied with the Relay Node and Wireless Network System Design", US Patent No. 8,089,912 (issued 2012/01, owned by ITRI).
 - (16) M.-S. Pan, H.-W. Fang, Y.-C. Liu, and Y.-C. Tseng, "Network Address Assigning and Allocating Method and Routing Method for Long-Thing Wireless Network", US Patent (granted).
 - (17) 曾煜棋, 阮騰輝, "動態網路負載平衡方法以及系統", USA (pending).
 - (18) Y.-C. Tseng, P.-Y. Wu, and H.-W. Lee, "Method for Establishing a Voice over IP Call in a WLAN", Europe (pending, owned by Zyxel Communications).
 - (19) Y.-C. Tseng, J.-J. Chen, and H.-W. Lee, "HANDOFF METHOD OF MOBILE DEVICE UTILIZING DYNAMIC TUNNEL", USA (pending, owned by

Yu-Chee Tseng

Publications List

- Zyxel Communications).
- (20) 潘孟鉉等 , “ 適用於信標模式無線網路快速資料傳輸機制 ”, Taiwan (pending), submitted in 2007.
 - (21) 洪簡廷州 , 潘孟鉉 , 蔡佳宏 , 曾煜棋 , “ 動態緊急指示裝置、方法及系統 ”, Taiwan (pending, owned by NTHU), 2007.
 - (22) S.-P. Kuo, Y.-C. Tseng, and Y.-F. Lee, "Optimization Search Method and System for Pattern Matching Localization", US, China, and Taiwan (pending, owned by ITRI).
 - (23) S.-P. Kuo, B.-J. Wu, Y.-F. Lee, Y.-C. Tseng, and C.-C. Shen, "The Method and System for Heterogeneous Pattern-Matching Localization in Overlapping Cluster-Based Architecture", US and Taiwan (pending, owned by ITRI).
 - (24) 曾煜棋, 吳鈞豪, 鄧淇文, " 在無線感測網路中利用資料差異性進行資料融合 ", Taiwan (pending, owned by III), 2008.
 - (25) M.-S. Pan, L.-W. Yeh, Y.-C. Tseng, L.-C. Ko, H.-W. Fang, and C.-W. Teng, "Apparatus for a Beacon-enabled Wireless Network, Transmission Time Determining Method, and Computer Readable Medium Thereof", Taiwan (pending), USA (pending), owned by III.
 - (26) 曾煜棋, 林致宇, 莊哲熙, 方華韋, 劉永之 , " 無線長鏈狀網路中可用於資料匯集應用的動態分群法 ", (pending, owned by III), 2008.
 - (27) J.-J. Chen, Y.-C. Tseng, and H.-W. Lee, "Handoff Method of Mobile Device Utilizing Dynamic Tunnel," USA (pending, owned by Zyxel Communications).
 - (28) J.-J. Chen, Y.-C. Tseng, and H.-W. Lee, " 利用動態通道之行動裝置的交遞方法 ", Taiwan, China (pending, owned by Zyxel Communications).
 - (29) 葉倫武, 呂哲彥, 李岳峰, 林育萱, 曾煜棋, "一種使用光線強度做為媒介之定位系統與方法", 中華民國;美國;中國大陸 (pending), owned by ITRI.

6. Technical Reports

- (1) S.-L. Wu, C.-Y. Lin, C.-J. Huang, Y.-C. Tseng, and J.-P. Sheu, "W4: A WWW Proxy Server for Wireless Networks", Cross-Straight Information Technology, 1999, Chung-Li, Taiwan.
- (2) Y.-Y. Chen, H.-K. Pan, and Y.-C. Tseng, "[A Secure Data Hiding Scheme for Binary Images](#)" (the complete version of the paper appeared in IEEE Trans. on Communications).
- (3) 王友群, 胡君琪, 曾煜棋, "感測網路將走入人類日常生活", 通訊雜誌,

Yu-Chee Tseng

Publications List

2003 年 9 月號.

- (4) 胡君琪, 曾煜棋, “短距通訊與行動裝置”, 電信國家型科技計畫簡訊, 2005 年 2 月號, pp. 3-8.
- (5) 蔡佳宏, 曾煜棋, “[無線感測網路之通訊協定與應用前景](#)”, 電信國家型科技計畫簡訊, 2006.