

CURRICULUM VITAE

December, 2009

Name, Surname : Siu Hong Savio Tse
Address : Department of Computer Engineering
Faculty of Engineering, Izmir University
Gürsel Aksel Bulvarı, 14, Üçkuyular, İzmir 35350,
Tel.: (232) 246 4949; Fax: (232) 232-224 0909
E-mails: savio.tse@izmir.edu.tr , sshtse@gmail.com

Education
1997, Ph.D. (Computer Science),
Department of Computer Science,
University of Hong Kong

1988, BSc (Physics),
Department of Physics,
University of Hong Kong.

Professional Activities

2009-present, Assistant Professor,
Department of Computer Engineering,
Izmir University, Izmir – Turkey

2005-2009, Assistant Professor,
Department of Computer Engineering,
Bilkent University, Ankara - Turkey

2004-2005 Guest Lecturer,
Department of Computer Science,
The University of Hong Kong, Hong Kong

2001-2004, Lecturer,
Department of Computing,
The Hong Kong Polytechnic University, Hong Kong

2000-2002, Visiting Assistant Professor,
Department of Computer Science,
The University of Hong Kong, Hong Kong

1997-2000, Senior Research Assistant,
Department of Computer Science,
The University of Hong Kong, Hong Kong

1992-1997, Ph.D. Student,
Department of Computer Science,
The University of Hong Kong, Hong Kong

Research Interests

- Scheduling and Load Balancing Problem.
- Mobile, Internet, and Grid Computing
- Optical Fibra Network
- Wormhold Network
- Facility location Problem

- Dominating Set Problem
- Interval Routing and compact routing method
- Distributed Algorithms and Computing

Courses: Taught at Graduate Level

Theory of Computation (2005-2008)
 Software Engineering Concepts (2001-2004)
 Fundamental of Distributed Computing (2000-2002)
 Algorithms (2004-2005)

Courses: Taught at Undergraduate Level

Data Structure and Algorithm (2009-)
 Introduction to Computer Science (2009-)
 Introduction to Computing in Engineering and Science (2009)
 Fundamental Structures of Computer (2005 - 2009)
 Algorithm (2005-2009)
 Computer Organizations and Architecture (2001-2004)
 Computer System Architecture (2001-2004)
 Computers and Computing (2001-2004)
 Information Network Protocol and Management (2001-2004)
 Internetworking protocols and Software (2001-2004)
 Programming Language C (2001-2004)
 Software Engineering and User Interface (2001-2004)

Membership in International Program/Organizing Committees

- The First International Workshop on Mobile Peer-to-Peer Information Services (MP2PIS 2009), in conjunction with MDM-09.
- Mobile Computing and Applications Track in the 24th Annual ACM Symposium on Applied Computing (SAC 2009)
- The 23rd International Symposium on Computer and Information Sciences (IEEE ISCIS 2008)
- The 10th IEEE International Conference on High Performance Computing and Communications (HPCC-08)
- The IEEE 22nd International Conference on Advanced Information Networking and Applications (AINA2008)
- The IEEE 21st International Conference on Advanced Information Networking and Applications (AINA2007)
- The 14th Colloquium on Structural Information and Communication Complexity (SIROCCO 2007)
- The IEEE 20th International Conference on Advanced Information Networking and Applications (AINA2006)
- The 5th & 6th ACM (Hong Kong Chapter) Postgraduate Research Day (2004, 2005)
- The 11th Colloquium on Structural Information and Communication Complexity (SIROCCO 2004)

Publications

Ph.D. Dissertation:

“The Performance of Interval Routing in General Networks”, Department of Computer Science, The University of Hong Kong, March 1997.

Journal Publications

1. **S.S.H. Tse**, “Online Bicriteria Load Balancing using Object Reallocation”, *IEEE Transactions on Parallel and Distributed Systems*, vol. 20, No. 3, March 2009, 379-388.
2. Y. Shi, F.C.M. Lau, **S.S.H. Tse**, Z.H. Du, R.C. Tang, and S.L. Li, “Club Theory of the Grid”, *Concurrency and Computation: Practice and Experience*, vol. 18, Issue 14, December 2006, 1759-1773.
3. **S.S.H. Tse**, “A short note on the Lower Bound of Dilation for $O(\log n)$ -label Interval Routing”, *Information Processing Letters*, vol. 95, Issue 2, July 2005, 351-353.
4. **S.S.H. Tse**, “Approximate Algorithms for Document Placement in Distributed Web Servers”, *IEEE Transactions on Parallel and Distributed Systems*, vol. 16, No. 6, June 2005, 489-496.
5. **S.S.H. Tse** and F.C.M. Lau, “New Bounds for Multi-Label Interval Routing”, *Theoretical Computer Science*, Vol. 310, No. 1-3, 2004, 61-77.

6. F.C.M. Lau, P.K.W. Cheng and **S.S.H. Tse**, "An Algorithm for the 2-Median Problem on Two-Dimensional Meshes", *The Computer Journal*, vol. 44, No. 2, 2001, 101-108.
7. **S.S.H. Tse** and F.C.M. Lau, "On the Space Requirement of Interval Routing", *IEEE Transactions On Computers*, Vol. 48, No. 7, July 1999, 752-757.
8. **S.S.H. Tse** and F.C.M. Lau, "On the Complexity of Some Adaptive Polling Algorithms in General Networks", *International Journal of Foundations of Computer Science*, (Special Issue on Graph Algorithms and Applications), Vol. 10, No. 2, 1999, 211-244.
9. **S.S.H. Tse** and F.C.M. Lau, "More on the Efficiency of Interval Routing", *The Computer Journal*, Vol. 41, No. 4, 1998, 238-242.
10. **S.S.H. Tse** and F.C.M. Lau, "A Lower Bound for Interval Routing in General Networks", *Networks*, Vol. 29, No. 1, January 1997, 49-53.

Publications in International Congresses and Conferences

1. **S.S.H. Tse**, "Online Balancing Two Independent Criteria", *Lecture Notes in Computer Science* 5245, 244-254, 2008.
2. **S.S.H. Tse**, "Online Bicriteria Load Balancing for Distributed File Servers", *Proceedings of The Second International Conference on Communications and Networking in China (ChinaCom 2007)*, Shanghai, China, August 22--24, 2007.
3. **S.S.H. Tse**, "Online Solutions for Scalable File Server Systems", *Proceedings of the First International Conference on Scalable Information Systems (INFOSCALE 2006)*, Hong Kong, May 29--June 1, 2006.
4. **S.S.H. Tse** and F.C.M. Lau, "An Approximation Solution for the 2-Median Problem on Two-Dimensional Meshes", *Proceedings of The First International Workshop on Information Networking and Applications (INA 2005)*, Tamkang, Taiwan, March 2005.
5. **S.S.H. Tse**, "Approximate Algorithms for Document Placement in Distributed Web Servers", *Proceedings of The 7th International Symposium on Parallel Architectures, Algorithms, and Networks (I-SPAN)*, Hong Kong, China, May 2004, 61--66.
6. **S.S.H. Tse**, and H.V. Leong, "Mobile Data Management in Ad hoc Wireless Networks", *Proceedings of The 18th International Conference on Advanced Information Networking and Applications (AINA 2004)*, Fukuoka, Japan, March 2004, 428--431.
7. **S.S.H. Tse** and F.C.M. Lau, "An Upper Bound Result for Multi-Label Interval Routing on Planar Graphs", *Proceedings of 9th International Colloquium on Structural Information and Communication Complexity (SIROCCO 9)*, Andros, Greece, June 2002.
8. **S.S.H. Tse** and F.C.M. Lau, "Some Results on the Space Requirement of Interval Routing", *Proceedings of 6th International Colloquium on Structural Information and Communication Complexity (SIROCCO 6)*, Lacanau, France, July 1999.
9. P.K.W. Cheng, F.C.M. Lau, and **S.S.H. Tse**, "An Algorithm for the Location Problem in Two-Dimensional Meshes", *Proceedings of International Symposium on Mathematical Foundations of Computer Science (MFCS'98)--Workshop on Communication*, Brno, Czech Republic, August 1998, 76-90.
10. **S.S.H. Tse** and F.C.M. Lau, "Adaptive Broadcast-Confirm Algorithms in General Networks and their Analysis", *Proceedings of 5th International Colloquium on Structural Information and Communication Complexity (SIROCCO'98)*, Amalfi, Italy, June 1998, 20-35.
11. **S.S.H. Tse** and F.C.M. Lau, "An Optimal Lower Bound for Interval Routing in General Networks", *Proceedings of 4th International Colloquium on Structural Information and Communication Complexity (SIROCCO'97)*, Ascona, Switzerland, July 1997, 112-124.
12. **S.S.H. Tse** and F.C.M. Lau, "Two Lower Bounds for Multi-Label Interval Routing." *Proceedings of Computing: The Australasian Theory Symposium (CATS'97)*, Sydney, Australia, February 1997, 36-43.
13. **S.S.H. Tse** and F.C.M. Lau, "Lower Bounds for Multi-Label Interval Routing." *Proceedings of 2nd Colloquium on Structural Information and Communication Complexity (SIROCCO'95)*, Olympia, Greece, June 1995, 123-134.

Present Address

Department of Computer Engineering,
Faculty of Engineering, Izmir University
35350 Uckuyular, Izmir, TURKEY

Tel (office): (90) 232- 246 4949

Fax: (90) 232- 224 0909

E-mail addresses: savio.tse@izmir.edu.tr , sshtse@gmail.com

Web-page: <http://www.izmir.edu.tr/>