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RESEARCH INTERESTS Computer Networking, Distributed Systems and Operating Systems with a current focus on:

- Multimedia Streaming
- Internet Content Distribution
- Overlay/Peer-to-Peer Networking
- Network Security

EDUCATION

The Chinese University of Hong Kong (CUHK) **Hong Kong**
Ph.D in Computer Science, awarded August 2007.
Dissertation: Analysis and Optimization of Peer-to-Peer Systems under Churn
Advisor: Prof. Kam-Wing Ng

Chinese Academy of Sciences (CAS) **Beijing, China**
M.E. in Computer Science, awarded July 2003.

University of Science & Technology of China (USTC) **Hefei, China**
B.E. in Computer Science, awarded July 2000.

PROFESSIONAL EXPERIENCES

Polytechnic University **09/2007 - Present**
Postdoctoral Researcher, Department of Computer & Information Science

The Chinese University of Hong Kong, Hong Kong **09/2004 - 08/2007**
Research Assistant, Department of Computer Science & Engineering

Guangdong NORTEL R&D Center, Guangzhou, China **09/2003 - 08/2004**
Software Engineer, UMTS/GSM Voice Core Team

Institute of Computing Technology (CAS), Beijing, China **09/2000 - 08/2003**
Research Assistant, Network Research Laboratory

SUN-USTC Institute of Computer Technology, Hefei, China **09/1998 - 07/2000**
Intern, Software Development Division

AWARDS AND ACHIEVEMENTS

- Postgraduate Studentship, Chinese University of Hong Kong 2004-2007
- Excellent Graduate Student Scholarship, Chinese Academy of Sciences 2001
- Guang Hwa Scholarship, Univ. of Science & Technology of China 1999
- Outstanding Student Award, Univ. of Science & Technology of China 1996-1998
- Excellent Freshman Award, Univ. of Science & Technology of China 1995

REFERRED JOURNAL PUBLICATIONS

- Di Wu, Ye Tian and Kam-Wing Ng, "**Resilient and Efficient Load Balancing in Distributed Hash Tables**". *Elsevier Journal of Network and Computer Applications (Elsevier JNCA)*, Accepted, 2008.

- Ye Tian, Di Wu and Kam-Wing Ng, " **A Novel Caching Mechanism for Peer-to-Peer Based Media-on-Demand Streaming** ". *Elsevier Journal of System Architecture (Elsevier JSA) Volume 54, Issues 1-2, Pages 55-69, 2008.*
- Di Wu, Ye Tian, Kam-Wing Ng and Anwitaman Datta, "**Stochastic Analysis of the Interplay between Object Maintenance and Churn**". *Elsevier Journal of Computer Communications, Special Issue on Foundations of Peer-to-Peer Computing (Elsevier JCC) Volume 31, Issue 2, Pages 220-239, 2008.*
- Ye Tian, Di Wu, Guangzhong Sun and Kam-Wing Ng, "**Improving the Stability of the Peer-to-Peer Multicast Overlays by Active Measurement**". *Elsevier Journal of System Architecture (Elsevier JSA), Volume 54, Issues 1-2, Pages 305-323, 2008.*
- Ye Tian, Di Wu and Kam-Wing Ng, "**On Distributed Rating Systems for Peer-to-Peer Networks**". *The Computer Journal, Oxford University Press, Volume 51, Issue 2, Pages 162-180, 2008.*
- Di Wu, Ye Tian and Kam-Wing Ng, "**An Analytical Study on Optimizing the Lookup Performance of Distributed Hash Table Systems under Churn**". *Concurrency and Computation: Practice and Experience (CCPE Journal), John Wiley & Sons, Volume 19, Issue 4, P. 543 - 569, 2007.*
- Ye Tian, Di Wu and Kam-Wing Ng, " **Performance Analysis and Improvement for BitTorrent-like File Sharing Systems**". *Concurrency and Computation: Practice and Experience (CCPE Journal), John Wiley & Sons, Volume 19, Issue 13, Pages 1811 - 1835, 2007.*
- Di Wu and Guoqing Zhang, "**A Mobile Agent-Based Approach to Service Dependency Model Generation**". *Chinese Journal of Computer Engineering, Vol 29, No.12, P.58-60, 2003.*
- Di Wu, Jin Yang and Guoqing Zhang, "**An Innovative Network Management Model Based On Services Cloud**". *Chinese Journal of Computer Engineering and Application, Vol 39, No.16, P.139-141, 2003.*

**REFERRED
CONFERENCE
PUBLICATIONS**

- Prithula Dhungel, Di Wu, Brad Schonhorst and Keith W. Ross, "**A Measurement Study of Attacks on BitTorrent Leechers**". In *Proc. of 7th International Workshop on Peer-to-Peer Systems (IPTPS 2008), Tampa Bay, FL, Feb 2008.*
- Di Wu, Ye Tian and Kam-Wing Ng, "**Achieving Resilient and Efficient Load Balancing in DHT-based P2P Systems**". In *Proc. of the 31st Annual IEEE Conference on Local Computer Networks (IEEE LCN 2006), Tampa, FL, USA, Nov. 2006.*
- Di Wu, Ye Tian and Kam-Wing Ng, "**On the Effectiveness of Migration-based Load Balancing Strategies in DHT Systems**". In *Proc. of the 15th IEEE International Conference on Computer Communications and Networks (IEEE ICCCN 2006), Arlington, VA, USA, Oct. 2006.*
- Di Wu, Ye Tian and Kam-Wing Ng, "**Analytical Study on Improving DHT Lookup Performance under Churn**". In *Proc. of the 6th IEEE International Conference on Peer-to-*

Peer Computing (IEEE P2P 2006), Cambridge, UK, Sep. 2006.

• Di Wu, Ye Tian and Kam-Wing Ng, "**Roogle: Supporting Efficient High-Dimensional Range Queries in P2P Systems**". In *Proc. of European Conference on Parallel Computing (Euro-Par 2006)*, LNCS 4128, Springer-Verlag, Dresden, Germany, Aug. 2006.

• Ye Tian, Di Wu and Kam-Wing Ng, "**Analyzing Multiple File Downloading in BitTorrent**". In *Proc. of International Conference on Parallel Processing (ICPP 2006)*, Columbus, Ohio, USA, Aug. 2006.

• Ye Tian, Di Wu and Kam-Wing Ng, "**Modeling, Analysis and Improvement for BitTorrent-Like File Sharing Networks**". In *Proc. of IEEE Annual Conference on Computer Communications (IEEE INFOCOM 2006)*, Barcelona, Spain, Apr. 2006.

• Ye Tian, Di Wu and Kam-Wing Ng, "**GroupRep: A Robust Group-based Reputation System for Peer-to-Peer Networks**". In *Proc. of International Conference on Computational Intelligence and Security (CIS 2005)*, Xi'an, China, Dec. 2005.

• Di Wu, Ye Tian and Kam-Wing Ng, "**Aurelia: Building Locality-Preserving Overlay Network over Heterogeneous P2P Environments**". In *Proc. of International Workshop on Applications and Economics of Peer-to-Peer Systems (AEPP 2005)*, LNCS 3759, Springer-Verlag, Nanjing, China, Nov. 2005.

• Di Wu, Jin Yang and Guoqing Zhang, "**Cloud to Cloud: A Framework Model For Next Generation Network Management**". In *Proc. of IEEE International Conference on Telecommunications (IEEE ICT 2003)*, Papeete, France, Feb. 2003.

TEACHING EXPERIENCES

Guest Lecturer/Teaching Assistant, Polytechnic University

- CSC684 Computer Networking Fall 2007, Spring 2008
- CSC682 Computer Security Spring 2008

Teaching Assistant, Chinese University of Hong Kong

- CSC4430 Data Communication and Computer Networks Spring, 2007
- CSC3160 Design and Analysis of Algorithms Fall, 2006
- CSC3180 Principles of Programming Languages Spring, 2006
- CSC5110 Advanced Software Engineering Fall, 2005
- CSC2100A Data Structures Fall, 2005

SERVICE AND ACTIVITIES

External Reviewer: *IEEE ICDCS, IEEE LCN, IEEE ICCCN, Elsevier Journal of Computer Communications, Elsevier Journal of Network and Computer Application*, etc.

TPC Member: IEEE ICCCN'08

Member of IEEE.

REFERENCES

Available Upon Request