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PROFESSIONAL EXPERIENCE

- 2003–Pres. Professor, Dept. of Computer Science, University of Houston.
1997–1998 Visiting Associate Professor, Dept. of Computer Science, University of California, Santa Cruz.
1988–2003 Associate Professor, Dept. of Computer Science, University of Houston.
1982–1988 Assistant Professor, Dept. of CSE, University of California, San Diego.
1979–1982 Assistant Professor, Dept. of Computer Science, Purdue University.

EDUCATION

- 1981 Ph. D. in EECS, University of California, Berkeley.
1975 License et Maîtrise en Informatique, Facultés Universitaires de Namur, Belgium.
1972 Diplôme d'Etudes Approfondies en Informatique, Université de Paris VI, France.
1970 Ingénieur Civil Chimiste, Université Libre de Bruxelles, Belgium.

RECENT PUBLICATIONS

1. J.-F. Pâris, A. Amer and T. J. Schwarz. Low-Redundancy Two-Dimensional RAID Arrays, *Proceedings of the International Conference on Computing, Networking and Communications (ICNC 2012)*, Maui, HI, Jan.-Feb. 2012.
2. J.-F. Pâris, A. Nagar, A. Amer and T. J. Schwarz. Pay-To-Play: An Incentive Mechanism for Chaining Protocols for Video Streaming, *Proceedings of the 10th International Information and Telecommunication Technologies Conference (I2TS 2011)*, Florianopolis, SC, Brazil, Dec. 2011.
3. A. Amer, J. Holliday, D. D. E. Long, E. L. Miller, J.-F. Pâris and T. J. Schwarz. Data Management and Layout for Shingled Magnetic Recording, *IEEE Transactions on Magnetics*, Vol.: 47, N^o 10, Oct. 2011.
4. J.-F. Pâris, A. Amer and D. D. E. Long. Accelerated Chaining: A Better Way to Harness Peer Power in Video-on-Demand Applications, *Proceedings of the 26th ACM Symposium on Applied Computing (SAC 2011)*, Taichung, Taiwan, pages 534–539, Mar. 2011.
5. A. Amer, D. Long, E. L. Miller, J.-F. Pâris and T. J. Schwarz. Data Management and Layout for Shingled Magnetic Recording (invited talk and digest), *IEEE International Magnetics Conference (InterMag 2011)*, Taipei, Taiwan, Apr. 2011.
6. J.-F. Pâris, A. Amer and D. D. E. Long, Accelerated Chaining: A Better Way to Harness Peer Power in Video-on-Demand Applications, *Proceedings of the 26th ACM Symposium on Applied Computing (SAC 2011)*, Taichung, Taiwan, Mar. 2011.
7. J.-F. Pâris and T. J. Schwarz. An Analysis of Chaining Protocols for Video-on-Demand, *Proceedings of the 9th International Information and Telecommunication Technologies Symposium (I2TS 2010)*, Rio de Janeiro, RJ, Brazil, Dec. 2010.
8. R. S. Kushalnagar and J.-F. Pâris, Evaluation of a Scalable and Distributed Mobile Device Video Recording Approach for Accessible Presentations, *Proceedings of the 29th International Performance of Computers and Communication Conference (IPCCC 2010)*, Albuquerque, NM, Dec. 2010.
9. R. S. Kushalnagar, A. Cavender and J.-F. Pâris, Multiple View Perspectives: Improving Inclusiveness and Video Compression in Mainstream Classroom Recordings, *Proceedings of the*

- 12th International ACM SIGACCESS Conference on Computers and Accessibility (ACCESS 2010)*, Orlando, FL, Oct. 2010.
10. R. S. Kushalnagar and J.-F. Pâris, Scalability of Prioritized Multiple Regions of Interest for P2P Mobile Devices, *Proceedings of the 2010 International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS 2010)*, Ottawa, Canada, July 2010.
 11. J.-F. Pâris, T. J. Schwarz, A. Amer and D. D. E. Long, Improving Disk Array Reliability Through Expedited Scrubbing, *Proceedings of the 5th IEEE International Conference on Networking, Architecture, and Storage (NAS 2010)*, Macao, China, pages 119–125, July 2010.
 12. A. Amer, D. D. E. Long, E. L. Miller, J.-F. Pâris and T. J. Schwarz. Design Issues for a Shingled Write Disk System, *Proceedings of the 26th IEEE Symposium on Massive Storage Systems and Technologies (MSST 2010)*, Incline Village, NV, May 2010,.
 13. J.-F. Pâris and A. Amer. Using Shared Parity Disks to Improve the Reliability of RAID Arrays, *Proceedings of the 28th International Performance of Computers and Communication Conference (IPCCC 2009)*, Phoenix, AZ, pages 129–136, Dec. 2009.
 14. J.-F. Pâris, A. Amer, D. D. E. Long and T. J. E. Schwarz. Evaluating the Impact of Irrecoverable Read Errors on Disk Array Reliability, *Proceedings of the IEEE 15th Pacific Rim International Symposium on Dependable Computing (PRDC '09)*, Shanghai, China, pages 379–384, Nov. 2009.
 15. J.-F. Pâris, A. Amer and D. D. E. Long. Using Storage Class Memories to Increase the Reliability of Two-Dimensional RAID Arrays, *Proceedings of the 17th International Symposium on Modeling, Analysis and Simulation of Computer and Telecommunication Systems (MASCOTS 2009)*, London, GB, pages 125–132, Sep. 2009.
 16. J.-F. Pâris, T. J. E. Schwarz, D. D. E. Long and A. Amer, When MTDLs Are Not Good Enough: Providing Better Estimates of Disk Array Reliability, *Proceedings of the 7th International Information and Telecommunication Technologies Symposium (I2TS '08)*, Foz do Iguaçu, PR, Brazil, pages 140–145, Dec. 2008.
 17. A. Amer, J.-F. Pâris, D. D. E. Long and T. J. E. Schwarz, Progressive Parity-Based Hardening of Data Stores, *Proceedings of the 27th International Performance of Computers and Communication Conference (IPCCC 2008)*, Austin, TX, pages 134–142, Dec. 2008.
 18. P. Shah, J.-F. Pâris, J. Morgan, J. Schettino and C. Venkatraman, A P2P Based Architecture for Secure Software Delivery Using Volunteer Assistance, *Proceedings of the 8th International Conference on Peer-to-Peer Computing 2008 (P2P '08)*, Aachen, Germany, pages 131–139, Sep. 2008.
 19. A. Amer, D. D. E. Long, J.-F. Paris and T. J. E. Schwarz, Increased Reliability with SSPiRAL Data Layouts, *Proceedings of the 16th International Symposium on Modeling, Analysis and Simulation of Computer and Telecommunication Systems (MASCOTS 2008)*, Baltimore, MD, pages 189–198, Sept. 2008.
 20. P. Shah, J. Rasheed and J.-F Pâris, Performance Study of Unstructured P2P Overlay Streaming Systems, *17th International Conference on Computer Communications and Networks, Workshop on Advanced Networking and Communications*, St. Thomas, U.S. Virgin Islands, Aug. 2008.
 21. J. Baek and J.-F. Pâris, A Scalable Recovery Tree Construction Scheme Considering Spatial Locality of Packet Loss, *KSII Transactions on Internet and Information Systems (TIIS) Vol. 2, N° 2*, pages 82–102, April 2008.
 22. S. Kulkarni, J.-F. Pâris and P. Shah. A Stream Tapping Protocol Involving Clients in the Distribution of Videos on Demand, *Advances in Multimedia, Special Issue on Collaboration and Optimization for Multimedia Communications*, Vol. 2008, 2008.
 23. J.-F. Pâris and T. J. Schwarz. On the Possibility of Small, Service-Free Disk Based Storage Systems, *Proceedings of the 3rd International Conference on Availability, Reliability and Security (ARES 2008)*, Barcelona, Spain, pages 56–63, Mar. 2008.

24. J.-F. Pâris, D. D. E. Long and T. J. E. Schwarz, Ensuring Data Survival on Solid-State Storage Devices, *Proceedings of the First International Workshop on Storage and I/O Virtualization, Performance, Energy, Evaluation and Dependability (SPEED 2008)*, Salt Lake City, UT, Feb. 2008.
25. P. Shah and J.-F. Pâris, Incorporating Trust in the BitTorrent Protocol, *Proceedings of the 2007 International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS 2007)*, San Diego, CA, pages 586–593, July 2007.
26. P. Shah and J.-F. Pâris. Peer-to-Peer Multimedia Streaming Using BitTorrent, *Proceedings of the 26th International Performance of Computers and Communication Conference (IPCCC 2007)*, New Orleans, LA, pages 340–347, Apr. 2007.
27. J.-F. Pâris, T. J. Schwarz and D. D. E. Long. Self-Adaptive Archival Storage Systems, *Proceedings of the 26th International Performance of Computers and Communication Conference (IPCCC 2007)*, New Orleans, LA, pages 246-253, Apr. 2007.
28. J.-F. Pâris and D. D. E. Long. An Analytic Study of Stream Tapping Protocols, *Proceedings of the 2006 IEEE International Conference on Multimedia and Expo (ICME 2006)*, Toronto, Canada, pages 1237–1240, July 2006.
29. A. Fritz and J.-F. Pâris. Maille Authorization – A Distributed, Redundant Authorization Protocol, *Proceedings of the 25th International Performance of Computers and Communication Conference (IPCCC 2006)*, Phoenix, AZ, pages 265–272, Apr. 2006.

PH. D. STUDENTS GRADUATED

1. Raja Kushalnagar. *Optimizing Video Presentations for Deaf and Hard of Hearing Participants in Mainstream Classrooms*, UH, 2010.
2. Purvi Shah. *Scaling Content-Based Services Using P2P Technology*, UH, 2008.
3. Jinsuk Baek. *Scalable Approaches for Tree-Based Reliable Multicast*, UH, 2004.
4. José-Carlos Martínez-Vélez. *The Design of a CORBA Replication Service for Fault-Tolerant Distributed Object Systems*, UH, 2001.
5. Darrell D. E. Long. *The Management of Replication in a Distributed System*, UCSD, 1988.
6. J. F. Cigas. *The Design and Evaluation of a Block-Level Disk Cache Using Pseudofiles*, UCSD, 1988.

M. S. STUDENTS GRADUATED

1. Sara Chaarawi. *Using Storage Class Memories to Improve the Reliability of RAID Arrays*, UH, 2010.
2. Samir Sachdev. *A Realistic Evaluation of Data Survivability of Fault-Tolerant Disk Arrays*, UH, 2009.
3. Rong Tao, *The Variable Bit-Rate Fixed-Delay Broadcasting Protocol*, UH, 2008.
4. Jawad Ur Rasheed. *A Performance Evaluation of Peer to Peer Multimedia Streaming Systems*, UH, 2008.
5. Santosh Kulkarni. *Involving Clients in Distribution of Videos on Demand*, UH, 2006.
6. Reshma Khatri. *Using Artificial Neural Networks to Select the Best File Access Prediction Heuristic*, UH, 2006.
7. Natarajan Ravichandran. *Making Early Predictions of File Accesses*, UH, 2005.
8. Andrew Fritz. *The Maille Security Protocol Suite: A Novel Protocol Suite for Authentication and Authorization in Large Distributed System*, UH, 2004.
9. Wenjing Chen. *A Two-Expert Approach for File System Reference Prediction*, UH, 2004.
10. Lei Yu. *A Restrained Hierarchical Stream Merging Protocol for Video-on-Demand*, UH, 2003.
11. Chong Seng Yeo. *A Group-Based File Predictor*, UH, 2003.

12. Cyrus D. Vesuna. *An Empirical Study of Harmonic Broadcasting Protocols for Video-on-Demand*, UH, 2003.
13. Lyle D. Wincentzen. *An Assessment of the Practicality of VoIP Using Gateways*, UH, 2003.
14. Karthik Thirumalai. *Tabbycat: An Inexpensive Scalable Server for Video-on-Demand*, UH, 2003.
15. Jing-Yu Lee. *A Modified Hierarchical Stream Merging Protocol for Video-on-Demand*, UH, 2003.
16. Qiong Zhang. *A Channel-Based Heuristic Distribution Protocol for Video-on-Demand*, UH, 2002.
17. Gary A. S. Whittle. *A Hybrid Scheme for File System Reference Prediction*, UH, 2002.
18. Saurabh Mohan. *Characterizing the Bandwidth Requirements of Compressed Videos*, UH, 2001.
19. Pei-Fen You. *A Dynamic Fast-Pagoda Broadcasting Protocol for Video-on-Demand*, UH, 2000.
20. Hong Xue. *An Interactive Broadcasting Protocol for Video-on-Demand*, UH, 2000.
21. Qing Wang. *A Dynamic Proactive Broadcasting Protocol for Video-on-Demand*, UH, 1999.
22. Gaurav Bahadur. *Improving the Write Performance of Redundant Disk Arrays*, UH, 1997.
23. Leroy L. Mattingly, Jr. *DPCTools++: A Framework of C++ Classes for Distributed Parallel Computing*, UH, 1995.
24. Qun Rose Wang. *Managing Replicated Data in the Presence of Network Partitions*, UH, 1995.
25. Reza Hussein. *AGENT: Another Global accEss Network Transparent Distributed File System*, UH, 1994.
26. Chris M. Cavers. *Don't Turn Off That Machine: Caching Read-Only Files on Idle Workstations*, UH, 1993.
27. Jonathan F. Humphreys. *A Distributed Revision Control System*, UH, 1993.
28. Perry K. Sloope. *A Realistic Evaluation of the Effect of Network Partitioning on the Management of Replicated Data*, UH, 1991.
29. Ravi G. Kathuria. *Fast Practical Protocols for the Management of Replicated Data*, UH, 1991.
30. Ignacio Valdes. *Efficient Caching of Temporary Files*, UH, 1990.

RECENT PROFESSIONAL ACTIVITIES

- Program Committee, XXXVI Conferencia Latinoamericana de Informática (CLEI XXXVI).
- Program Committee, 2008 and 2009 IEEE International Conference on Networking, Architecture, and Storage (NAS 2008 and 2009).
- Program Committees, 19th to 30th IEEE International Performance, Computing, and Communications Conferences (IPCCC 2000 to 2011).
- Program Committee, Tenth International Conference on Web Information Systems Engineering (WISE 2009).
- Program Committees, 8th to 14th and 16th International Conferences on Computer Communications and Networks (ICCCN 2000 to 2005 and 2007).
- Program Committees, EUROMEDIA 2001 to 2009 and 2011 Conferences.
- Program Committees, 1st, 3rd, 4th and 6th International Workshops on Storage Network Architecture and Parallel I/Os (SNAPI 2004, 2007, 2008 and 2010).
- Program Committee, 14th International Symposium on Modeling, Analysis and Simulation of Computer and Telecommunication Systems (MASCOTS 2006).
- Program Committees, 2005 and 2006 Mexican International Conferences on Computer Science (ENC 2005 and 2006).
- Program Committees, 4th to 10th International Information and Telecommunication Technologies Symposia (I2TS 2005 to 2011).

PROFESSIONAL SOCIETIES

- Institute of Electrical and Electronics Engineers: Computer Society (*senior member*).
- Association for Computing Machinery (*senior member*): Special Interest Groups on Operating Systems (SIGOPS), Measurement and Evaluation (SIGMETRICS), Management of Data (SIGMOD) and Multimedia (SIGMM).