

Hong-Linh TRUONG

PERSONAL INFORMATION

Date and Place of Birth: 04 December 1975, Phu Yen, Vietnam.

Nationality: Vietnamese.

Marital status: Married.

Languages: Vietnamese (native), English (fluent), German (basic).

Affiliation:

Institute of Computer Science, University of Innsbruck

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OBJECTIVES

Obtain higher understanding of various aspects of parallel and distributed systems, research and develop novel software tools, in particular performance monitoring and analysis tools, and middleware for high performance and Grid computing.

EDUCATION

Apr, 2005	Awarded PhD degree with highest distinction, Computer Science, Vienna University of Technology
Apr, 2001 - Mar 2005	Ph.D. study, Vienna University of Technology, Austria Study Ph.D. courses at Vienna University of Technology and University of Vienna Dissertation supervisor : Prof. Dr. Thomas Fahringer Dissertation title: <i>Novel Techniques and Methods for Performance Measurement, Analysis and Monitoring of Cluster and Grid Applications.</i>
Apr, 1998	Awarded University Degree of Engineer (Dipl.-Ing.), Computer Science, HoChiMinh City University of Technology, Vietnam. Thesis supervisor: Dr. Nguyen Thanh Son Thesis title: <i>Building a Distributed and Parallel Programming Tool</i>
Sep 1993 - Mar 1998	Studies in Computer Science and Engineering at the Faculty of Information Technology, HoChiMinh City University of Technology, Vietnam.
Jun 1993	Baccalaureate (High School Diploma)
Sep 1990 - Jun 1993	Luong Van Chanh High School, Phu Yen, Vietnam. (Special class for talented students in physics)

RECENT ACADEMIC ACHIEVEMENTS

2005	Best poster award, European Grid Conference 2005 (EGC2005), Amsterdam, The Netherlands, February 14 -16.
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PROFESSIONAL SKILLS

Operating systems	Unix (Solaris, Linux), Windows
Programming languages	Java, C/C++, Perl, Fortran
Markup languages	XML, OWL
Programming models	MPI, Threads, OpenMP, RMI/RPC, Grid and Web Services.
Office tools	Microsoft office, Latex
Databases	Berkeley DB/DBXML, PostgreSQL.

TEACHING EXPERIENCE

Teaching courses	System Performance Evaluation, Network Programming, Computer Networks, Unix System Administration, Fundamentals of Programming, Practical Unix.
Thesis supervision	Supervise fully 5 and partially 6 engineer's these in the following research areas: Parallel and Distributed Computing, Networking, Internet/Intranet Applications, Performance Analysis.

EMPLOYMENT

Mar, 2005 - present	Post-doc research scientist, Distributed and Parallel Systems group (chaired by Prof. Thomas Fahringer), Institute of Computer Science, University of Innsbruck, Austria
Nov, 2000 - Feb, 2005	Research scientist, Software Science group (chaired by Prof. Hans Zima), Institute for Scientific Computing, University of Vienna, Austria
1998 - Nov, 2000	Assistant Lecturer/Researcher, Faculty of Information Technology, HoChiMinh City University of Technology, Vietnam
1998 - 2000	Systems & Networks Consultant, HoChiMinh City University of Technology, Vietnam

WORKING & RESEARCH PROJECTS

Research interest: performance monitoring and analysis, support tools, and programming environments for distributed and parallel systems; parallel processing; middleware; P2P and Grid computing; autonomic computing.

Sept 2004 - present	K-WfGrid: Knowledge-based Workflow System for Grid Applications, IST-2002-511385, a 6th FP project funded by EU Tasks and roles: architect, developer and technical lead for performance and monitoring of Grid workflows; a member of project technical board.
2004 - present	Austrian Grid, funded by the Austrian Federal Ministry for Education, Science and Culture. Tasks and roles: design and develop performance monitoring middleware for the Austrian Grid.
Nov, 2000 - Feb, 2005	FWF AURORA (Advanced Models, Applications and Software Systems for High Performance Computing), funded by Austrian Science Fund, Institute for Scientific Computing, Software Science group, University of Vienna. Tasks and roles: design and develop performance tools for parallel and Grid computing
2001 - 2004	Working Group on Automatic Performance Analysis: Real Tools, IST-2000-28077, a 5th FP project funded by EU. Tasks and roles: contribute on research and development of performance analysis tools for cluster and grid computing.
1999 - 2000	Designing and Building a Magnetic Card system for Vietnam National University HoChiMinh city. Tasks and roles: design and implement database systems, applications for magnetic card systems.
1998 - 2000	SUPERNODE Project (Researching & Developing a PC-based Supercomputer and Parallel Programming Tools), Faculty of Information Technology, HoChiMinh City University of Technology. Task and roles: research and develop performance monitoring tool for cluster-based systems.
1998-1999	Designing and Developing the Information Networks of Vietnam National University HoChiMinh city. Tasks and roles: design and build web server and proxy systems, monitoring and billing systems for web and mail services.

PROFESSIONAL ACTIVITIES

Member of the ACM, IEEE and IEEE Computer Society.

External reviewer for: IPDPS 2003, Euro-Par 2003, Euro-Par 2004, ICPP 2004, ICCS 04, Euro-Par 2005, Journal of Software Practice and Experience (John Wiley & Sons).

PC member: 4th IEEE RIVF'06.

SELECTED PUBLICATIONS

Books, Book Chapters

1. M. Gerndt, R. Wismueller, Z. Balaton, G. Gombas, P. Kacsuk, Zs. Nemeth, N. Podhorszki, H.-L. Truong, T. Fahringer, M. Bubak, E. Laure, T. Margalef, "Performance Tools for the Grid: State of the Art and Future", APART-2 Working Group, Research Report Series, Lehrstuhl fuer Rechnertechnik und Rechnerorganisation (LRR-TUM) Technische Universitaet Muenchen, Vol. 30, Shaker Verlag, ISBN 3-8322-2413-0, January, 2004.

Journals

1. Hong-Linh Truong, Thomas Fahringer, Schahram Dustdar, *Dynamic Instrumentation, Performance Monitoring and Analysis of Grid Scientific Workflows*, 3(1-2):1-18, Journal of Grid Computing, Springer Science+Business Media B.V., June 2005.
2. Thomas Fahringer, Alexandru Jugravu, Sabri Pllana, Radu Prodan, Clovis Seragiotto Junior, Hong-Linh Truong, *ASKALON: A Tool Set for Cluster and Grid Computing*, Concurrency & Computation: Practice & Experience, 17(2-4):143-169, John Wiley and Sons, 2005.
3. Hong-Linh Truong, Thomas Fahringer, *SCALEA-G: A Unified Monitoring and Performance Analysis System for the Grid*, Scientific Programming, 12(4):225-237, IOS Press, 2004.
4. Hong-Linh Truong, Thomas Fahringer, *SCALEA: A Performance Analysis Tool for Parallel Programs*, Concurrency & Computation: Practice & Experience, 15(11-12):1001-1025, John Wiley and Sons, September 2003.

Conferences/Workshops

1. T. Fahringer, R. Prodan, R. Duan, F. Nerieri, S. Podlipnig, J. Qin, M. Siddiqui, H.-L. Truong, A. Villazon, M. Wiczorek, *ASKALON: A Grid Application Development and Computing Environment*, 6th International Workshop on Grid Computing, (c) IEEE Computer Society Press, November 2005, Seattle, USA
2. B. Balis, M. Bubak, J. Dziwisz, H.-L. Truong, and T. Fahringer, *Integrated Monitoring Framework for Grid Infrastructure and Applications*, In P. Cunningham and M. Cunningham, editors, Innovation and the Knowledge Economy. Issues, Applications, Case Studies, pages 269-276, Ljubljana, Slovenia, October 2005. IOS Press.
3. Hong-Linh Truong, Bartosz Balis, Marian Bubak, Jakub Dziwisz, Thomas Fahringer, Andreas Hoheisel, *Towards Distributed Monitoring and Performance Analysis Services in the K-WfGrid Project*, In Proceedings of 6th International Conference on Parallel Processing and Applied Mathematics (PPAM'2005), LNCS, (c) Springer-Verlag, Poznan, Poland, 11-14 September, 2005. To appear.
4. Hong-Linh Truong, Thomas Fahringer, *Soft Computing Approach to Performance Analysis of Parallel and Distributed Programs*, In Proceedings of 11th International Euro-Par Conference (Euro-Par 2005), LNCS 3648, pages 50-60, (c) Springer-Verlag, Lisboa, Portugal, 30th August- 2nd September 2005.
5. Hong-Linh Truong, Thomas Fahringer, Francesco Nerieri, Schahram Dustdar. *Performance Metrics and Ontology for Describing Performance Data of Grid Workflows*, In Proceedings of IEEE International Symposium on Cluster Computing and Grid 2005 (CCGrid2005), 1st International Workshop on Grid Performability, IEEE Computer Society Press, Cardiff, UK, 9 - 12 May 2005.
6. Hong-Linh Truong, Thomas Fahringer. *Self-Managing Sensor-based Middleware for Performance Monitoring and Data Integration in Grids*. In Proceedings of 19 IEEE International Parallel and Distributed Processing Symposium (IPDPS 2005), IEEE Computer Society Press, Denver, Colorado, USA, April 4-8, 2005.
7. Hong-Linh Truong, Thomas Fahringer. *Online Performance Monitoring and Analysis of Grid Scientific Workflows*, In Proceedings of European Grid Conference 2005 (EGC2005), LNCS 3470, pages 1154-1164, (c) Springer-Verlag, Amsterdam, The Netherlands, February 14 -16, 2005.
8. Hong-Linh Truong, Thomas Fahringer. *Performance Analysis, Data Sharing and Tools Integration in Grids: New Approach based on Ontology*. In Proceedings of International Conference on Computational Science (ICCS 2004), LNCS 3038, Springer-Verlag, Krakow, Poland, June 7-9, 2004.

9. Hong-Linh Truong, Thomas Fahringer. *SCALEA-G: A Unified Monitoring and Performance Analysis System for the Grid*. In Proceedings of 2nd European Across Grids Conference, LNCS 3165, Springer-Verlag, Nicosia, Cyprus, Jan. 28-30, 2004.
10. Hong-Linh Truong, Thomas Fahringer. *On Utilizing Experiment Data Repository for Performance Analysis of Parallel Applications*. In Proceedings of 9th International Euro-Par Conference (Euro-Par 2003), LNCS 2790, Springer-Verlag, 26th - 29th August 2003, Klagenfurt, Austria.
11. Hong-Linh Truong, Thomas Fahringer, Michael Geissler and Georg Madsen. *Performance Analysis for MPI Applications with SCALEA*. In Proceedings of the 9th European PVM/MPI User's Meeting (EuroPVMMPI 2002), LNCS, Springer-Verlag, Linz, Austria, September 29th - October 2nd, 2002.
12. Hong-Linh Truong, Thomas Fahringer. *SCALEA: A Performance Analysis Tool for Distributed and Parallel Programs*. In Proceedings of 8th International Euro-Par Conference (Euro-Par 2002), LNCS, Springer-Verlag, 27th - 30th August 2002, Paderborn, Germany.
13. Hong-Linh Truong, Thomas Fahringer, Georg Madsen, Allen D. Malony, Hans Moritsch and Sameer Shende. *On Using SCALEA for Performance Analysis of Distributed and Parallel Programs*, In Proceedings of the 9th IEEE/ACM High-Performance Networking and Computing Conference (SC'2001), ACM Press and IEEE Computer Society Press, Denver, Colorado, USA. November 10-16, 2001.

REFERENCES

Available upon request.

January 25, 2006