

Huy TRAN

CONTACT INFORMATION

Distributed Systems Group
Institute of Information Systems
Vienna University of Technology
Argentinierstrasse 8/184-1, Wien 1040, Austria.

phone: +43-1-58801-18431
fax: +43-1-8801-18491
e-mail: htran@infosys.tuwien.ac.at
<http://www.infosys.tuwien.ac.at/staff/htran>

WORK EXPERIENCE

- 2013 | Post-doctoral Researcher
OCT 2010 | Research interests: Software architecture, model-driven engineering, domain-specific modeling, business process management, compliance engineering, and service-oriented computing.
- INDENICA Project -- European Framework 7 STREP project, Call 5, Theme ICT 1.2 - Internet of Services, Software and Virtualisation. Period: 2010 - 2013*
- FEB 2011 | Post-doctoral Researcher, VIENNA UNIVERSITY OF TECHNOLOGY, Austria.
JAN 2008 | *COMPAS Project -- European Framework 7 STREP project, Call 1, Theme ICT 1.1.2 Software and Services. Period: 2008-2011*
- In COMPAS, we design and implement novel models, languages, and frameworks to ensure dynamic and on-going compliance of software services to business regulations and stated user service-requirements. COMPAS explores model-driven techniques, domain-specific languages, and service-oriented infrastructure software to enable organizations developing business compliance solutions easier and faster. The project has involved six European universities and three big European companies coordinated by Vienna University of Technology. The foundational modeling framework of the project is based on the view-based, model-driven approach for process-driven SOAs.
- Praktikum project supervision: SS2010, WS2010, SS2009, WS2009
- SEP 2008 | ÖAD PhD Scholar, VIENNA UNIVERSITY OF TECHNOLOGY, Austria.
OCT 2005 | *View-based Modeling Framework for Process-driven Service-oriented Architectures*
- The framework can support stakeholders to manage the complexity of process development caused by numerous tangled concerns, reconcile the divergence of process description languages in terms of syntax, semantics, and granularity at different abstraction levels, and enhance a variety of development qualities such as the understandability, adaptability, reusability, traceability, maintainability, and extensibility. The framework has been implemented as Eclipse plug-ins using the Eclipse Modeling Framework.
- The standards and technologies involved in this work include BPMN, BPEL, WSDL, XML, XPath, Java, Apache CXF, openArchitectureWare, Apache Maven, Subversion, Spring Framework, Apache Derby/MySQL, Apache ODE, and Apache Tomcat.
- SEP 2005 | Lecturer/Researcher, HCM CITY UNIVERSITY OF TECHNOLOGY, Vietnam.
MAY 2002 | Undergraduate lecture: *Operating Systems Concepts* -- Spring 2003, 2004, 2005
Undergraduate lecture: *Parallel Computing and Distributed Systems* -- Fall 2004
Undergraduate lecture: *Introduction to Computer Science* -- Fall 2003
Undergraduate lab: *Linux Programming* -- Spring 2003, 2004, 2005
Undergraduate lab: *Message-Passing Programming with MPI and C* -- Fall 2003, 2004
Undergraduate thesis supervision: 2004, 2005
- Projects**
- High performance computing cluster 2004-2005 (funded by the Vietnam National University in HCM City)
Intelligent browsers based on data mining and naïve Bayesian classification 2003--2004 (funded by the HCM City University of Technology Grants for Young Researchers)
Linux programming training for the employees of [Fujitsu Vietnam Corp.](#), [Global CyberSoft](#), [TMA Solutions](#), etc.

EDUCATION

- 2005-2009 PhD with distinction in Computer Science, specializing in Software Engineering
Vienna University of Technology, Austria
Dissertation: *View-based and Model-driven Approach for Process-driven Service-oriented Architectures*
Advisor: Prof. Dr. Schahram DUSTDAR, Dr. Uwe ZDUN
- 1997-2002 Bachelor in Computer Science and Engineering
HCM City University of Technology, Vietnam

REFEREED PUBLICATIONS

Journal articles

1. H. Tran, U. Zdun, and S. Dustdar, *VbTrace: using view-based and model-driven development to support traceability in process-driven SOAs*, J. Software & System Modeling, vol. 10, no. 1, Nov. 2011, pp.5-29.

Book chapters

1. H. Tran, T. Holmes, U. Zdun, and S. Dustdar, *Using Model-Driven Views and Trace Links to Relate Requirements and Architecture : A Case Study*, Relating software requirements and architectures, I. Mistrik, with J. Grundy, J.G. Hall, and P. Avgeriou, Patricia Lago, eds., Springer, 2011 (forthcoming).
2. H. Tran, T. Holmes, U. Zdun, and S. Dustdar, *Chapter 2: Modeling Process-Driven SOAs - a View-Based Approach*, Handbook of Research on Business Process Modeling, J. Cardoso and W.M. van Der Aalst, IGI Global, 2009.

Conference/workshop papers

1. H. Tran, T. Holmes, E. Oberortner, E. Mulo, A.B. Cavalcante, J. Serafinski, M. Tluczek, A. Birukou, P. Silveira, U. Zdun, and S. Dustdar, *An End-to-End Framework for Business Compliance in Process-Driven SOAs*. 12th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), Timisoara, Romania, IEEE, 2010, pp. 407-414.
2. H. Tran, U. Zdun, and S. Dustdar. *Name-based view integration for enhancing the reusability in process-driven SOAs*. 1st Workshop on Reuse in Business Process Management (rBPM 2010), 8th Int'l Conf. on Business Process Management (BPM 2010), Hoboken, New Jersey, USA, Sep 13-16, 2010.
3. T. Holmes, H. Tran, U. Zdun, and S. Dustdar, *Model-driven and Domain-specific Architectural Knowledge View for Compliance Meta-data in Process-Driven SOAs*, Int'l Workshop on SHARing and Reusing architectural Knowledge (SHARK), Cape Town, South Africa: ACM Press, 2010, pp.64-71.
4. H. Tran, U. Zdun, and S. Dustdar, *View-Based Reverse Engineering Approach for Enhancing Model Interoperability and Reusability in Process-Driven SOAs*, Int'l Conf. Software Reuse (ICSR), Springer, 2008, pp. 233-244.
5. H. Tran, U. Zdun, and S. Dustdar, *View-based Integration of Process-driven SOA Models At Various Abstraction Levels*, Int'l Workshop on Model-Based Software and Data Integration (MBSDI), Springer CCIS, 2008, pp. 55-66.
6. H. Tran, U. Zdun, and S. Dustdar, *View-based and Model-driven Approach for Reducing the Development Complexity in Process-Driven SOA*, Int'l Conf. Business Process and Services Computing (BPSC), 2007, pp. 105-124.
7. M. Aiello, C. Platzer, F. Rosenberg, H. Tran, M. Vasko, and S. Dustdar, *Web Service Indexing for Efficient Retrieval and Composition*, Int'l Conf. E-Commerce Technology and Int'l Conf. Enterprise Computing, E-Commerce, and E-Services (CEC/EEE), 2006, pp. 63-63.
8. M. N. Tran, K. H. Luu, N. Thoai., and H. Tran, *An Adaptive Static Scheduling Algorithm for Non-dedicated Grid*. The School on Computational Sciences and Engineering: Theory and Applications, March 2-4, Vietnam, 2005.
9. T. S. Nguyen, H. Tran, and A. K. Nguyen, *Balance Algorithm-a New Approach to Solving Mapping Problem On Heterogeneous Systems*, Int'l Conf. High Performance Scientific Computing, p.461-470, Springer-Verlag, 2004.

PROFESSIONAL ACTIVITIES

Keynotes/Invited Talks

- *COMPAS - Compliance-driven Models, Languages, and Architectures for Services*: Invited talk at the First Workshop on Software Services (WoSS 2010), 12th Int'l Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC 2010), Timisoara, Romania, Sep 23-26, 2010.

Program Committee Memberships

- 10th International Conference on Wirtschaftsinformatik (WI 2011)
- 1st Workshop on Engineering SOA and the Web (ESW'10) at 10th ICWE 2010

Reviewer for Journals

- ACM Transactions on Software Engineering and Methodology (TOSEM)
- IEEE Transactions on Software Engineering (TSE)
- ACM Computing Surveys (CSUR)
- Journal of Software Maintenance and Evolution: Research and Practice (JSME)
- Transactions on Pattern Languages of Programming (PLoP)
- Empirical Software Engineering
- Journal of Service Oriented Computing and Applications (SOCA)
- Future Internet Journal

Reviewer for Conferences

- 26th IEEE ICSM 2010
- 8th IEEE SEFM 2010
- ACOMP 2010
- ICSOC-NFPSLAM-SOC 2009
- ICSOC-SOC-LOG 2009
- EDOC-MWS 2009
- 5th ENASE 2009
- XML4BPM 2008

REFEREES

Prof. Dr. Schahram DUSTDAR

Distributed Systems Group

Institute of Information Systems

Vienna University of Technology

Argentinierstrasse 8/184-1, Wien 1040, Austria

Phone: +43-1-58801-18414

Fax: +43-1-58801-18491

Email: dustdar@infosys.tuwien.ac.at

Prof. Dr. Uwe ZDUN

Software Architecture Group

Faculty of Computer Science

University of Vienna

Berggasse 11, 1090 Wien, Austria

Phone: +43-1-4277-39691

Fax: +43-1-4277-39699

Email: uwe.zdun@univie.ac.at

Dr. Thanh-Son NGUYEN

Faculty of Information Technology

HCM City University of Technology, Vietnam

Phone: +84-8-8647256-5841

Fax: +84-8-8645137

Email: sonsys@cse.hcmut.edu.vn

Dr. Nam THOAI

Faculty of Information Technology

HCM City University of Technology, Vietnam

Phone: +84-8-8647256-5849

Fax: +84-8-8645137

Email: nam@cse.hcmut.edu.vn