

# Curriculum Vitae of Yudistira Asnar

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## PERSONAL INFORMATION

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POSITION Phd Student, 3<sup>rd</sup> year, ICT International Doctorate School  
University of Trento, Italy  
Period : November 2004 - Present  
Proposal Title : Modeling and Analyzing Risk in Requirements Engineering  
Advisor : Dr. Paolo Giorgini  
Tutor : Prof. John Mylopoulos

EDUCATION **Institut Teknologi Bandung (ITB)**, Bandung, Indonesia

B.Eng., Informatics Engineering, June 2002

- *Cum Laude*, With Honors in Engineering
- Topic: Implementing Query Processor in Distributed-Databased Environment using Mobile-Agent
- Supervisor: Dr. Benhard Sitohang and Tricya Widagdo, M.Sc.

## ACADEMIC EXPERIENCE

Lecturer **Informatics Department, ITB** **May 2002 - December 2003**  
Teaching *Database* course together with Tricya Widagdo, M.Sc.

**Diploma PT. Pos** **May 2002 - August 2003**  
Teaching *Software Engineering* course together with Dr. Ingriani Liem

Teaching Assistant **Requirement Engineering** **2007,2008**  
as a teaching assistant of the course *Requirement Engineering* for Master students. The proponent professor was Prof. John Mylopoulos, Department of Information and Communication Technology, University of Trento.

**Security** **2007**  
as a guest lecture in the course *Security* for Master students that was taught by Prof. Fabio Massacci and Dr. Bruno Crispo in Department of Information and Communication Technology, University of Trento.

**Agent Oriented Software Engineering** **2007**  
as a guest lecture in the course *Agent Oriented Software Engineering* for Master students that the proponent professors was Dr. Paolo Giorgini in Department of Information and Communication Technology, University of Trento.

**Data Management** **2003**  
as a teaching assistant of the course *Data Management* for Master students that was taught by Dr. Benhard Sitohang, Department of Informatics Engineering, ITB.

**Computer-based Information System** **2001 - 2002**  
as a teaching assistant of the course *Computer-based Information System* for Bachelor students that was taught by Kridanto Surendro, PhD, Department of Informatics Engineering, ITB.

Research Assistant **Graduate Student in ICT School, University of Trento November 2004 - Present**  
as a PhD student in Software Engineering and Formal Methods Research Group.

**Software Engineering and Information System Laboratory, Department of Informatics Engineering, ITB** **2001 - 2002**  
as a developer and technical support in the laboratory, especially in the research of “Virtual Software Development Framework” that was financed by LIPI, Indonesia.

**Database Laboratory, Department of Informatics Engineering, ITB 2001 - 2002**  
as a main-database administrator in the laboratory.

PROJECTS      Participating in the EU FP7-IP-216917 project MASTER (Managing Assurance, Security, and Trust sERvices). Coordinator Pedro Soria-Rodriguez.

Participating in the EU FP6-IP-IST-027587 project SERENITY (System Engineering for Security & Dependability). Coordinator Domenico Presenza.

Participating in the PAT (Autonomous Province of Trento) project MOSTRO (MODelling Security and Trust Relationships within Organizations). Coordinator Nicola Guarino

COURSES      **LSS in Dependable Software System** **July 17-22, 2006**  
The Lugano Summer School is intended for students, researchers, and professionals interested in the construction of reliable computer systems. The focus of the school will be on all aspects of computer systems construction: system design, analysis, verification and implementation. The lectures will be given by internationally renowned researchers from Carnegie Mellon University, School of Computer Science, Pittsburgh, USA, and University of Lugano, Informatics Department, Switzerland who have made significant contributions to the field of computer systems. The school brings together top experts who will present a series of lectures on their latest research efforts, such as:

- Specification and Verification of Software Architectures by David Garlan, Carnegie Mellon University;
- Evolution of Software Compositions by Carlo Ghezzi, Politecnico di Milano and University of Lugano;
- Proof-Carrying Code (Self-Certified Code) by Peter Lee, Carnegie Mellon University;
- Reliable Distributed Systems, Fernando Pedone, University of Lugano;
- Software Security and Verification, Natasha Sharygina, University of Lugano and Carnegie Mellon University;
- Software Engineering, Mary Shaw, Carnegie Mellon University.

**ICT Course Series, University of Trento** **November 2004-2007**  
These courses are part of the program in pursuing PhD in ICT School, University of Trento. The courses cover board subjects and each student may take the ones that are relevant for their research topic. These courses have been taken:

- Automata theory and practice by Paritosh Pandya
- Conceptual Modeling by John Mylopoulos

- Introduction to Innovation and High-tech Entrepreneurship by Yechiam Yemini
- Research Methodology by Fuasto Giunchiglia
- Security Services and Infrastructures for e-Commerce by Javier Lopez
- Advanced themes in software engineering by Adolfo Villafiorita
- Decentralized Trust Management by Sandro Etalle
- Efficient Boolean reasoning by Roberto Sebastiani
- ICT4SD: Information and Communication Technologies for Sustainable Development by Valentin Villaroel

## REVIEW

### ACTIVITIES

International IEEE Transactions on Software Engineering, Information and Software Technology Journals

Conferences/

Workshops External Reviewer on: International Conference on Autonomous Agents and Multiagent Systems (AAMAS-08), International Conference on Availability, Reliability and Security (AREs-07, AREs-08, AREs-09), International Conference on Advanced Information Systems Engineering (CAiSE-07, CAiSE-08), Information Security Conference (ISC-06), Workshop on Quality of Protection (QoP-06, QoP-07, QoP-08), International Workshop Engineering Societies in the Agents World (ESAW-06), From Agent Theory to Agent Implementation (AT2AI-08), European Symposium on Research in Computer Security (ESORICS-08), International Conference on Enterprise Information Systems (ICEIS-08), International Workshop on Security and Trust Management (STM-07), Symposium on Requirements Engineering for Information Security (SREIS-08), International Conference on Security and Privacy for Communication Networks (SECURECOMM-08)

## TALKS

Conferences and

Workshop

**June 12, 2008** *Assessing Risk over Objectives* at the Master Modeling Day. San Raffaele Hospital, Milan, Italy.

**November 29, 2007** *Risk Assessment a Goal-Driven Approach* at the 1st International “Secure by Design” Workshop, London, United of Kingdom.

**May 31, 2007** *Analyzing Risks in Organizations through Goal-Oriented Approach* at the 1st Dutch Workshop in Information Risk Management, University of Twente, Enschede, Netherlands.

**October 19, 2006** *Security and Dependability in Tropos: Air Traffic Management Case Study* at the Tropos Modeling Day, University of Trento, Italy.

**July 21, 2006** *Assessing Dependability of Socio-Technical System through Risk Analysis* at the Tropos Modeling Day, University of Trento, Italy.

Tutorial

**September 2, 2008** *Analyzing Risk and Continuity of Business Objectives* at 6th International Conference on Business Process Management (BPM 2008), Milan, Italy.

Seminars

**October 25, 2007** *Goal-driven Risk Assessment in Requirement Engineering* at Software Engineering and Design Seminar at Department of Computing, the Open University, United Kingdom.

**December 7, 2006** *Risk Driven for Goal Deliberation* at Department of Information and Communication Technology, University of Trento, Italy.

**May 18, 2006** *Qualitative Risk Modeling and Analysis* at Department of Information and Communication Technology, University of Trento, Italy.

**October 12, 2005** *Extending Goal Model with Risk Management* at Department of Information and Communication Technology, University of Trento, Italy.

**July 7, 2005** *Risk Analysis and Modeling* at Department of Information and Communication Technology, University of Trento, Italy.

Attendance to a number of conferences to present accepted papers (see attached publication list).

#### REFERENCES

Shall be provided on request.

#### PUBLICATIONS

References

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- [1] Y. Asnar, R. Bonato, P. Giorgini, F. Massacci, V. Meduri, C. Riccucci, and A. Saidane. Secure and Dependable Patterns in Organizations: An Empirical Approach. In *Proceedings of the 15th IEEE International Requirements Engineering Conference*. IEEE Computer Society Press, 2007.
- [2] Y. Asnar, V. Bryl, and P. Giorgini. Using Risk Analysis to Evaluate Design Alternatives. In *Proceedings of the Seventh International Workshop on Agent-Oriented Software Engineering*, volume 4405 of *Lecture Notes in Computer Science*. Springer-Verlag, 2006. Invited Paper.
- [3] Y. Asnar and P. Giorgini. Ensuring Dependability in Socio-Technical System by Risk Analysis. In *Proceedings of the 6th European Dependable Computing Conference*, 2006. Fast Abstract.
- [4] Y. Asnar and P. Giorgini. Modelling Risk and Identifying Countermeasures in Organizations. In *Proceedings of the 1st International Workshop on Critical Information Infrastructures Security*, volume 4347 of *Lecture Notes in Computer Science*, pages 55–66. Springer-Verlag, 2006.
- [5] Y. Asnar and P. Giorgini. Risk Analysis as part of the Requirements Engineering Process. Technical Report DIT-07-014, DIT - University of Trento, March 2007.
- [6] Y. Asnar and P. Giorgini. Analyzing Business Continuity through a Multi-Layers Modell. In *Proceedings of 6th International Conference on Business Process Management*, 2008.
- [7] Y. Asnar, P. Giorgini, P. Ciancarini, R. Moretti, M. Sebastianis, and N. Zannone. Evaluation of business solutions in manufacturing enterprises. *International Journal on Business Intelligence and Data Mining*, 3(3):305–329, 2008.
- [8] Y. Asnar, P. Giorgini, F. Massacci, and N. Zannone. From Trust to Dependability through Risk Analysis. In *Proceedings of the Second International Conference on Availability, Reliability and Security*. IEEE Press, 2007.
- [9] Y. Asnar, P. Giorgini, and A. Mulyanto. Risk in Secure and Dependable System: a Survey. In *Proceeding of 1st International Conference and Workshop on Risk Technology (RiskTech '07)*, 2007.
- [10] Y. Asnar, P. Giorgini, and J. Mylopoulos. Risk Modelling and Reasoning in Goal Models. Technical Report DIT-06-008, DIT - University of Trento, February 2006.
- [11] Y. Asnar, P. Giorgini, and N. Zannone. Implementing Risk Reasoning in Jadex Agents. In *Proceedings of the Eighth International Workshop on Agent-Oriented Software Engineering*, 2007.

- [12] Y. Asnar, R. Moretti, M. Sebastianis, and N. Zannone. Risk as Dependability Metrics for the Evaluation of Business Solutions: A Model-driven Approach. In *Proceedings of the Third International Conference on Availability, Reliability and Security*, 2008.
- [13] Y. Asnar and N. Zannone. Perceived Risk Assessment. In *Proceedings of the Fourth Workshop on Quality of Protection*. IEEE Computer Society Press, 2008.

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