

## Vishwas Patil

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## AFFILIATIONS

### Present affiliation

2004 – : PhD candidate [Advisor: Prof. Alessandro Mei]  
Department of Computer Science, University of Rome - La Sapienza, Italy

### Past affiliations

2000 – 2004 : Scientific Officer, School of Technology and Computer Science  
Tata Institute of Fundamental Research (TIFR), Mumbai, India  
2003 – 2004 : Executive Consultant, (parallel assignment through TIFR)  
SeNet Communications, Bangalore, India  
2003 – 2004 : Lecturer – Artificial Intelligence, (parallel assignment through TIFR)  
Bhaktivedanta Institute (ISKCON), Mumbai, India

## RESEARCH INTERESTS

- ▶ Security–Distributed systems, network, OS, e-commerce
- ▶ Public Key Infrastructures (X.509, SPKI, PGP), applied cryptography
- ▶ Access control and enforcement
- ▶ Trust management and incomplete contracts
- ▶ Electronic payments (micro)
- ▶ Privacy & anonymity, mix-nets
- ▶ Authentication–group admission & revocation, phishing

## PUBLICATIONS

[go online](#)

9. **Addressing interoperability issues in access control models**  
(with L. Mancini, A. Mei)  
*AsiaCCS 2007: ACM Symposium on Information, Computer and Communications Security*
8. **Addressing the shortcomings of one-way chains** (among the best papers)  
(with R. Di Pietro, A. Durante, L. Mancini)  
*AsiaCCS 2006: ACM Symposium on Information, Computer and Communications Security*
7. **e-coupons: An efficient, secure and delegable micro-payment system** (used as required reading in a PhD course on e-commerce at Rutgers)  
(with R.K. Shyamasundar)  
*ISF 2005: Journal of Information Systems Frontiers, Springer*
6. **Short paper: Practically unbounded one-way chains for authentication with backward secrecy**  
(with R. Di Pietro, A. Durante, L. Mancini)  
*SecureComm 2005: IEEE International Conference on Security and Privacy for Emerging Areas in Comm. Networks*

5. **Trust management for e-transactions**  
(with R.K. Shyamasundar)  
*Sadhana 2005: Academy Proceedings in Engineering Sciences, Indian Academy of Sciences*
4. **ROADS: role-based authorization and delegation system - authentication, authorization and applications**  
(with R.K. Shyamasundar)  
*DMA 2004: International Conference on Discrete Mathematics and its Applications*
3. **Towards a flexible access control mechanism for e-transactions**  
(with R.K. Shyamasundar)  
*EGCDMAS 2004: International Workshop on Electronic Government, and Commerce: Design, Modeling, Analysis and Security*
2. **An efficient, secure and delegable micro-payment system (among the best papers)**  
(with R.K. Shyamasundar)  
*EEE 2004: IEEE International Conference on e-Technology, e-Commerce and e-Service*
1. **ROADS: role-based authorization and delegation system**  
(with R.K. Shyamasundar)  
*ICCES 2003: International Conference on Computational & Experimental Engineering and Sciences*

## TECHNICAL REPORTS

[go online](#)

1. e-Trademark: A mechanism to shield laymen from phishing, circa Web 2.0
2. A mechanism for privacy-preserving concurrent collaborations in distributed environment
3. One-way chains: New constructions and properties
4. Group management in distributed environment
5. Access control models: Design and transformations

## INTERNSHIPS

- 4/07 – 9/07 : Software Systems Security Group, Institute for Infocomm Research, Singapore  
Mentor – Dr. Kostas G. Anagnostakis
- 5/07 – 8/07 : IBM India Research Lab, New Delhi  
Mentor – Prof. R.K. Shyamasundar

## AWARDS/SCHOLARSHIPS/FELLOWSHIPS

- 2006 – 2007 : PhD fellowship  
MIUR (Ministero dell'Università e della Ricerca), Italy
- 2004 – 2006 : PhD fellowship  
CINI (Consorzio Interuniversitario Nazionale per l'Informatica), Italy
- 2004 : Erasmus Mundus scholarship (returned in favor of the above PhD fellowship)  
European Union
- 1999 : Best paper – E-commerce: Impact of Internet on software development  
National level under-graduate meet, TechnoVision 1999, NIT-Warangal, India
- 1996 – 1997 : National level scholarship  
Ministry of Human Resource Development, Government of India
- 1991 – 1993 : 14<sup>th</sup> place in Maharashtra state scholarship examination (1991)  
Secured 3-year long scholarship from the Maharashtra state Government

## TECHNICAL SKILL-SET

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<b>Programming/Scripting Languages</b>	:	C, C++, Java, PERL/CGI, AWK, Shell script (bash), HTML, XML/XSL, Javascript, ASP, 8085/86
<b>Operating Systems</b>	:	GNU/Linux, BSD, Solaris, Windows
<b>Databases</b>	:	MySQL, Oracle, FoxPro
<b>Network Security, Analysis Tools</b>	:	Nessus, Snort, ntop, Nmap, PortSentry, SAINT, Tripwire, Sniff, dsniff, WebSpy, CIPE, tcpdump, traceroute, et al.
<b>Network, System Administration</b>	:	Web - Apache, Tomcat, Squid DNS - BIND, DHCP File server - Samba, NFS/NIS Mail server - exim4, postfix, procmail
<b>Distributed/Network Programming</b>	:	IPC, RPC, CORBA, RMI
<b>Security Libraries/Suits</b>	:	SPKI/SDSI, OpenSSL, IDX X.509, S/Key, GnuPG, OpenPGP, JSDSI, Intel CDSA
<b>Standards/Technologies</b>	:	RBAC, Rational Rose, AJAX
<b>Firewall</b>	:	IP-chains, IP-tables

## EDUCATIONAL BACKGROUND

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2000 – 2004	:	Graduation, Bachelor of Computer Engineering National Institute of Technology, Surat, India	70.04% (distinction)
1993 – 1996	:	Pre-university, Higher Secondary Certification Shivaji College, Udgir, India	78.50% (distinction)
– 1993	:	Matriculation, Secondary School Certification Lal Bahadur Shastri Vidyalaya, Udgir, India	78.29% (distinction)

## REFERENCES

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**Prof. Alessandro Mei**  
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