

Daniel Ricardo dos Santos

PERSONAL AND CONTACT INFORMATION	E-mail: danielricardo.santos@gmail.com Website: daniel-rs.github.io LinkedIn: linkedin.com/in/danielricardosantos	Skype: danielricardo.santos Phone: +39 388 634 0742 Location: Trento, Italy
AREAS OF INTEREST	Computer and Information Security; Software Engineering and Formal Methods; Machine Learning and Artificial Intelligence.	
EDUCATION	University of Trento (UNITN), Italy PhD. in Computer Science <i>Thesis:</i> Automatic Security Analysis of Business Processes Expected graduation: Dec, 2016 Federal University of Santa Catarina (UFSC), Brazil MSc. in Computer Science <i>Thesis:</i> Dynamic Risk-based Access Control for Cloud Computing 2013 BSc. in Computer Science <i>Thesis:</i> Identity Management and Privacy in Cloud Computing 2011	
WORK EXPERIENCE	Fondazione Bruno Kessler - Trento, Italy <i>Post-doctoral Researcher</i> 09/2016 - Current <i>Early Stage Researcher</i> 09/2013 - 08/2016 SAP Labs - Mougins, France <i>Early Stage Researcher</i> 09/2013 - 08/2016 SecPlus - Florianópolis, Brazil <i>Information Security Consultant</i> 10/2012 - 07/2013 AltoQi - Florianópolis, Brazil <i>C++ developer</i> 10/2011 - 04/2012 Networks and Management Laboratory, UFSC - Florianópolis, Brazil <i>Research Assistant</i> 07/2010 - 07/2013	
FURTHER EDUCATION	SECENTIS Winter School - Security of Enterprise Information Systems (2016) IEEE Italy Section School of Career Boosting (2015) Marktoberdorf Summer School - Dependable Software Systems Engineering (2014) Bolzano Startup Weekend (2013) UFSC Mathematics Summer School (2011)	

SKILLS	<p>Programming languages: Python, C/C++, Java, PHP, JavaScript.</p> <p>Technical expertise: Penetration testing, Web and mobile security, Network and server administration (Linux), Database management (SQL), Formal methods.</p> <p>Soft skills: Quick learner with good communication (verbal and written). Capable of working independently and in teams. Efficient project manager.</p> <p>Languages: Portuguese (Native), English (Fluent), Italian (Intermediate).</p>
AWARDS AND SCHOLARSHIPS	<p>Best Student Paper Award, 2015 (DBSec conference)</p> <p>Scholarship for PhD. studies, 2013-2016 (Marie-Curie Actions, EU)</p> <p>Scholarship for MSc. studies, 2012-2013 (CNPq, Brazil)</p> <p>Scholarship for BSc. studies, 2010-2011 (CNPq, Brazil)</p>
PATENTS	<ol style="list-style-type: none"> 1. S.E. Ponta, L. Compagna, D.R. dos Santos, S. Ranise, “<i>Secure and Compliant Execution of Processes</i>”, filed on 13/04/2016 2. A. Sabetta, L. Compagna, S.E. Ponta, S. Dashevskiy, D.R. dos Santos, F. Massacci, “<i>Multi-context Exploit Test Management</i>”, filed on 22/04/2015
PUBLICATIONS	<ol style="list-style-type: none"> 1. D.R. dos Santos, R. Marinho, G.R. Schmitt, C.M. Westphall, C.B. Westphall. “<i>A Framework and Risk Assessment Approaches for Risk-based Access Control in the Cloud</i>” in Journal of Network and Computer Applications, 2016 (In Press) 2. D.R. dos Santos, S.E. Ponta, S. Ranise. “<i>Modular Synthesis of Enforcement Mechanisms for the Workflow Satisfiability Problem: Scalability and Reusability</i>” in Proceedings of the 21st ACM Symposium on Access Control Models and Technologies (SACMAT), 2016 3. L. Compagna, D.R. dos Santos, S.E. Ponta, S. Ranise. “<i>Cerberus: Automated Synthesis of Enforcement Mechanisms for Security-sensitive Business Processes</i>” in Proceedings of the 22nd International Conference on Tools and Algorithms for the Construction and Analysis of Systems (TACAS), 2016 4. D.R. dos Santos, S. Ranise, L. Compagna, S.E. Ponta. “<i>Assisting the Deployment of Security-Sensitive Workflows by Finding Execution Scenarios</i>” in Data and Applications Security and Privacy XXIX (DBSec), 2015 5. C. Bertolissi, D.R. dos Santos, S. Ranise. “<i>Automated Synthesis of Runtime Monitors to Enforce Authorization Policies in Business Processes</i>” in Proceedings of the 10th ACM Symposium on Information, Computer and Communications Security (ASIACCS), 2015 6. S. Dashevskiy, D.R. dos Santos, F. Massacci, A. Sabetta. “<i>TESTREX: a Testbed for Repeatable Exploits</i>” in Proceedings of the 7th Workshop on Cyber Security Experimentation and Test (CSET), 2014 7. P.A.F. Vitti, D.R. dos Santos, C.B. Westphall, C.M. Westphall, K.M.M. Vieira. “<i>Current Issues in Cloud Computing Security and Management</i>” in Proceedings of the 8th International Conference on Emerging Security Information, Systems and Technologies (SECURWARE), 2014 8. D.R. dos Santos, C.M. Westphall, C.B. Westphall. “<i>A dynamic risk-based access control architecture for cloud computing</i>” in Proceedings of the IEEE/IFIP Network Operations and Management Symposium (NOMS), 2014

9. C.B. Westphall et al. “*Operation, Management, Security and Sustainability for Cloud Computing*” in *Revista de Sistemas de Informação da FSMA*, vol. 2014, no. 13, 2014
10. E.A. Rigon, C.M. Westphall, **D.R. dos Santos**, C.B. Westphall. “*A Cyclical Evaluation Model of Information Security Maturity*” in *Information Management and Computer Security*, vol. 22, no. 3, 2014
11. P. Silva, C.B. Westphall, C.M. Westphall M. Mattos, **D.R. dos Santos**. “*An Architecture for Risk Analysis in Cloud*” in *Proceedings of the 10th International Conference on Networking and Services (ICNS)*, 2014
12. **D.R. dos Santos**, T.J. Nascimento, C.M. Westphall, M.A.P Leandro, C.B. Westphall. “*Privacy-preserving identity federations in the cloud: a proof of concept*” in *International Journal of Security and Networks*, vol. 9, no. 1, 2014
13. **D.R. dos Santos**, C.M. Westphall, C.B. Westphall. “*Risk-based Dynamic Access Control for a Highly Scalable Cloud Federation*” in *Proceedings of the 7th International Conference on Emerging Security Information, Systems and Technologies (SECURWARE)*, 2013
14. R.F. de Souza, C.B. Westphall, **D.R. dos Santos**, C.M. Westphall. “*Challenges of Operationalizing PACS on Cloud Over Wireless Networks*” in *Proceedings of the 9th International Conference on Wireless and Mobile Communications (ICWMC)*, 2013
15. R.F. de Souza, C.B. Westphall, **D.R. dos Santos**, C.M. Westphall. “*A Review of PACS on Cloud for Archiving Secure Medical Images*” in *International Journal of Privacy and Health Information Management*, vol. 1, no. 1, 2013
16. R.B. Brinhosa, C.M. Westphall, C.B. Westphall, **D.R. dos Santos**, F. Grezele. “*A Validation Model of Data Input for Web Services*” in *Proceedings of the 12th International Conference on Networks (ICN)*, 2013
17. M.A.P. Leandro, T.J. Nascimento, **D.R. dos Santos**, C.M. Westphall, C.B. Westphall. “*Multi-Tenancy Authorization System with Federated Identity for Cloud-Based Environments Using Shibboleth*” in *Proceedings of the 11th International Conference on Networks (ICN)*, 2012
18. **D.R. dos Santos**, C.M. Westphall, “*Uma aplicação de privacidade no gerenciamento de identidades em nuvem com uApprove*” in *Anais do Simpósio Brasileiro em Segurança da Informação e de Sistemas Computacionais (SBSEG)*, 2011

SECURITY ADVISORIES

[CVE-2013-2618](#): Network Weathermap 0.97a Cross Site Scripting
[CVE-2013-2619](#): Aspen 0.8 Directory Traversal

TEACHING ASSISTANCE

Applied Security (MSc.) - UNITN, Italy - 2014
 Operating Systems (BSc.) - UFSC, Brazil - 2013
 Computer Networks (BSc.) - UFSC, Brazil - 2013

SCIENTIFIC AND PROFESSIONAL ASSOCIATIONS

Association for Computing Machinery ([ACM](#))
 Working Group on Data and Applications Security and Privacy ([IFIP WG11.3](#))
 European Joint Conferences on Theory and Practice of Software ([ETAPS](#))

ONLINE COURSES

Machine Learning ([Andrew Ng, Stanford - 2015](#))
 Computer Systems Security ([Nickolai Zeldovich, MIT - 2014](#))
 Introduction to Philosophy ([Caspar Hare, MIT - 2014](#))