

UNIVERSITY OF PRETORIA

FORMAT OF CURRICULUM VITAE

The University prefers the following CV format. Specific items can be added to or omitted to reflect faculty specific and/or individual circumstances, but the given numbering should, as far as possible, be followed to facilitate the evaluation process.

Provision of information about race and gender is optional, but will assist the University to report in terms of current employment equity legislation.

EVALUATION DATE: (Office use only)

1. BIOGRAPHICAL SKETCH

1.1 GENERAL INFORMATION

Surname	Eloff									
First names	Jan Harm Petrus			ID Number	5709075082082					
Citizenship	South African			Title	Prof	Female	<input type="checkbox"/>	Male	<input checked="" type="checkbox"/>	
Place of birth	Rustenburg			Date of birth	1957-09-07					
Population group	African	<input type="checkbox"/>	Coloured	<input type="checkbox"/>	Indian	<input type="checkbox"/>	White	<input checked="" type="checkbox"/>	Other (Please specify)	
Department	Computer Science / EBIT			Position	Professor / Deputy Dean: Research and Postgraduate Studies					
Direct Telephone	0832597926			Direct Telefax						
E-mail	jan.eloff@up.ac.za									
Date of appointment	1 July 2016			Permanent full-time	<input checked="" type="checkbox"/>	Temporary full-time	<input type="checkbox"/>			

1.2 ACADEMIC QUALIFICATIONS OBTAINED

Degree/Diploma	Field of study	Higher education institution	Year	Distinctions
PhD	Computer Science	University of Johannesburg	1985	
MSc Computer Science	Computer Science	University of Johannesburg	1981	Cum Laude
BSc Honors	Computer Science	University of Johannesburg	1979	Cum Laude
BSc Computer Science	Computer Science	University of Johannesburg	1978	Computer Science

1.3 WORK EXPERIENCE TO DATE		
Name of employer	Capacity and/or type of work	Period From mm/yy to mm/yy
University of Pretoria	Deputy Dean: Research and Postgraduate Studies in Faculty of Engineering, Built Environment and IT	08/2016 – current
University of Pretoria	Full Professor Contract appointment	07/2016 – current 07/2015 – 06/2016
SAP Research / SAP South Africa (Pty) Ltd	Research Director	01/2009 – 06/2015
CSIR (Meraka)	CSIR Chief Researcher	07/2011 – 03/2012
University of Pretoria	Professor Extraordinaire	01/2009 – 06/2015
University of Fribourg Switzerland	Guest professor (2 weeks per year)	2001 – 2011
University of Pretoria	Full Professor Head of Department, Department Computer Science Head of the School of Information Technology	10/2002 – 12/2008
Eloff Information Management Consultants	Co-founder & Director	1998 – 2015
Computer Directions	Co-founder & Director	1992 – 1995
University of Zurich	Guest professor on invitation at University of Zurich, Switzerland for the summer semester	2000 and 1994
University of Johannesburg	Full Professor at RAU Standard Bank Academy for Information Technology	Jan 1988 – Sep 2002
Sasol	Manager Information Centre	01/1985 – 12/1987
Arthur Andersen	Senior consultant	01/1983 – 12/1984
University of Johannesburg	Lecturer	1983

2. TEACHING ACTIVITIES

2.1 Courses presented

Course	Level (e.g. second year, Masters)	Self developed (Yes or No)
COS 151	First year	Yes
Introduction to problem solving and algorithm design	First year	Yes
Computer Science I: Programming	First year	Yes
Computer Science 2B – Java	Second year	Yes
Informatics 2A Databases	Second year	Yes

IT Management	Second year	Yes
Computer Security and Ethics	Third year	Yes
Information Security	Third year	Yes
Computer Science 3B: Computer Architecture and Operating Systems	Third year	Yes
Informatics 3B: Software project management	Third year	Yes
Computer Security I	Honors	
Computer Security II	Honors	
SEC 780 Computer Security	Honors	Yes
SEC 781 Information Security	Honors	Yes
Honors Projects	Honors	Yes
Computer Security	Honors	Yes
Information Security	Honors	Yes
Information Security in WWW applications	Honors	Yes
Information Security Management	Honors	Yes
Microprocessors	Honors	Yes
Software Engineering	Honors	Yes
Management Information systems (CIS)	Honors	Yes
Cybersecurity and Digital Forensics in Big Data Science	Masters	Yes
Introduction to Big Data Science	Masters	Yes
Information Security for e-Commerce	Masters	Yes
Information Security	MBA	Yes
Information Technology Management	Masters	Yes

2.2 Other education and pedagogic courses presented

Course	Year	Institution

3 TEACHING OUTPUTS

3.1 Educational publications and products

Provide full details including full titles, names of all the authors, publishers, dates, page numbers etc. Specify your exact contribution to the publications or products. Note that the publications here should be of a didactic nature e.g. articles in educational publications, papers presented at educational conferences, etc. A summary and description of educational products developed can be provided (e.g. study guides, learning materials, multimedia productions (CDs), educational videos, web materials, text books etc.) relevant to university education.

2017: Marshall L and Eloff J.H.P., 2017, "Towards an Interdisciplinary Master's Degree Programme in Big Data and Data Science: A South African Perspective", in Communications in Computer and Information Science: ICT Education, 45th Annual Conference of the Southern African Computer Lecturers' Association, SACLA 2016, Cullinan, South Africa, July 5-6, 2016, Revised Selected Papers, Ed: Stefan Gruner Volume 642 2016, pp131-139, ISBN: 978-3-319-47679-7 (Print) 978-3-319-47680-3 (Online) ISSN (Print): 18650929

My contribution: 50% - In particular, I was overall responsible for the design of the overall MIT Big Data Science degree

2018: Introduction to Big Data Science – online available on Blackboard

My contribution: 100%

4. OTHER TEACHING CONTRIBUTIONS

4.1 Membership of national and international bodies

List all the teaching associations or societies to which you belong. Name your involvement, e.g. honorary member, founder member, full member, chairman, president, secretary

SACLA – South African Computer Science Lecturers Association - Full member

SAICSIT – South African Institute of Computer Science and Information Technologists - Full member

4.2 Visits to local and overseas universities as guest professor or lecturer in regard to teaching

Provide details

2001 – 2011: University of Fribourg, Switzerland: Annually invited guest professor at the International Institute of Management in Telecommunications, University of Fribourg, Switzerland, presenting a module on information security

1994, 2000: University of Zurich: Guest professor on invitation at University of Zurich, Switzerland for the summer semesters in 2000 and in 1994

4.3 Participation in national and international teaching associations, bodies, committees

List all memberships of associations and bodies, as well as teaching committees (e.g. curriculum and assessment committees, teaching review committees, etc) in which you participate. Name the type and extent of participation.

5 RESEARCH ACTIVITIES

5.0 Research Profile

I am internationally recognised as a researcher in Cyber-security. In particular, I am recognised for my research in safeguarding platforms against societal cyber-threats. This is supported by:

- Google Scholar: (December 2018)
H-Index: 33
Citations:5108
- Scopus: (December 2018)
Scopus Author ID: 35608775600
H-Index: 20
Documents by author: 127
Total citations: 1460
- WOS: Web of Science (Dec 2017)
H-Index: 7
- ORCID ID: 0000-0003-4683-2198
- B-rating from the National Research Foundation of South Africa
- 237 peer reviewed papers (83 journal papers, 16 other journals, 138 peer reviewed conference papers)
- 12 PhD and 48 Masters students successfully graduated
- 7 patents registered in the USA
- Editorial Board Member of Computers & Security

5.1 Former supervision or co-supervision (*completed*)

Name of student	Degree	Title of dissertation / thesis	Date	Supervisor	Co-supervisor	Duration of studies (years)
Bihina Bella MA	PhD	A near-miss analysis model for improving the forensic investigation of software failures	2015	Yes		3
Loock M	PhD	CBAC - A model for conflict-based access control	2013	Yes		

Padayachee K	PhD	An aspect-oriented approach towards enhancing Optimistic Access Control with Usage Control	2010	Yes		4
Da Veiga A	PhD	Cultivating and Assessing Information Security Culture	2009	Yes		4
Coetzee M	PhD	Access control in web services environments	2006	Yes		4
Venter HS	PhD	New approaches to network security	2003	Yes		4
Botha RA	PhD	Secure Workflow environments	2001	Yes		4
Labuschagne L	PhD	Real-time Risk Analysis	2000	Yes		4
Smith E	PhD	Modeling risk management in the health-care environment using cognitive fuzzy techniques	2000	Yes		3
De Ru WG	PhD	The Application of Artificial Intelligence in Information Security	1997	Yes		2
Booyesen HAS	PhD	Secure Systems Development Methodology	1996	Yes		3
Badenhorst KP	PhD	A new approach to information security risk analysis	1994	Yes		3
De Bruin JA	MSc	Automated usability analysis and visualisation of eye tracking data	2014	Yes		2
Kohn M	MSc	An Integrated Digital Forensic Process Model	2013	Yes		4
Adigun EA	MSc	Reputation based trust in service oriented architectures	2011	Yes		3
Veerasamy N	MSc	Determining Network Warfare Capability	2010	Yes		3
Dlamini M	MSc	Economics of Information Security	2010	Yes		2
Sinha A	MSc	Access Control Requirements in the Grid Computing Environment	2010	Yes		3
Rossudowski AM	MSc	Smart Card Architecture for Dynamic and Secure Authentication	2009	Yes		2
Fei B	MSc	Data visualisation in digital forensics	2007	Yes		2
Li L	MSc	An Approach to Standardize Vulnerability Categories	2007	Yes		3
Bihina Bella M	MSc	Fraud Management Systems	2007	Yes		2
Wojcik M	MSc	Convergence of Machine Trust Models	2007	Yes		2
Abdullah H	MSc	Intrusion Detection Systems and Risk Management	2006	Yes		3
Izadina V	MSc	Fingerprinting Encrypted Tunnel Endpoints	2005	Yes		3
Höhne K	MSc	Information security policies	2004	Yes		2
Trompeter CM	MSc	Social/ethical Information Security issues	2003	Yes		3
V Loggerenberg M	MSc	Vulnerability analysis	2003	Yes		2

Coetzee M	MSc	Secure database interconnectivity on the world wide web	2002	Yes		2
Martins Adele	MSc	Measuring information security in a business environment	2002	Yes		3
Van der Walt E	MSc	Firewalls and log files	2002	Yes		2
Cholewka DG	MSc	Access Control in Work Flow	2001	Yes		3
Prinsloo JJ	MSc	Real-time risk analysis	2000	Yes		
Venter HS	MSc	Real-time Risk Analysis on the Internet	2000	Yes		2
Halgreen L	MSc	Information security with special reference to risk analysis in a medical environment	1998	Yes		3
Viljoen JJ	MSc	Software engineering	1998	Yes		2
Botha RA	MSc	Information Security in the client / server environment	1997	Yes		2
Van Buren S	MSc	Information security in a distributed banking environment	1997	Yes		2
Kruger R	MSc	Information security as discussed in the common criteria	1996	Yes		3
Van der Merwe GJJ	MSc	Software source code, visual risk analysis	1996	Yes		3
Hertenberger M	MSc	Integration of a CASE tool into a software engineering methodology	1995	Yes		2
Kasselman A	MSc	Design and implementation of a prototype to include security activities as part of application systems design	1995	Yes		2
Labuschagne I	MSc	Information security risk analysis	1995	Yes		3
Swanepoel I	MSc	Methodology for adopting object oriented programming in an organization	1995	Yes		3
Vermeulen S	MSc	The Merise and Navigator methodologies	1995	Yes		2
Loubser H	MSc	A framework for the management of software development cost	1994	Yes		2
Van Wyk JAM	MSc	Methodologies for software development	1994	Yes		3
Booyesen HAS	MSc	Security / Integrity during systems development	1993	Yes		2
De Ru WG	MSc	Expert systems and Information security	1993	Yes		2
Körner R	MSc	A model for database integrity	1993	Yes		3
Labuschagne L	MSc	Risk analysis for information security	1993	Yes		2
Nel A	MSc	Methodology for network security	1993	Yes		2
Nel Y	MSc	Disaster recovery planning for a large organisation	1993	Yes		2
Toerien N	MSc	A functional approach to ASE technology	1993	Yes		3

Bekker T	MSc	The measurement of information systems user satisfaction	1992	Yes		3
Bosch C J	MSc	The development of a mechanism to categorise countermeasures and the relation thereof to international standards in the field of information security	1992	Yes		2
Klut J	MSc	A methodology for the implementation of expert systems in large organizations	1992	Yes		2
Marais H	MSc	Software engineering	1991	Yes		1
Van Dyk P	MSc	Information security	1990	Yes		2
Badenhorst KP	MSc	A Methodology for the implementation of computer security in a large organisation	1989	Yes		2

5.2 Current post-graduate students

Name of student	Degree	Date of first registration	Project title	Supervisor	Co-supervisor	Year of registration
Mbona I	PhD	2018	Risk analysis	Yes		2018
Mosolo N	PhD	2018	Cloud Security	Yes		2018
Van der Walt E	PhD	2015	Identity Deception Detection	Yes		2015
Antonia Michael	MSc	2016	Insider threat detection	Yes		2016
Cynthia Ngejane	MSc	2016	Cyber crime and child protection	Yes		2016
David Kenyon	MSc	2016	Intelligent Detection of Cyber-Crime	Yes		2016
Motlatsi Thulo	MSc	2016	Secure Hypervisors for Cloud Infrastructures	Yes		2016
Thulani Ndlovu	MSc	2016	Big Data & IoT	Yes		2016
Daniel Joubert	MSc	2017	Anomaly detection	Yes		2017

5.3 Obtaining research funds (Optional)

Funder	Title of research project or programme	Year received	Duration	Role in proposal	Amount
NRF	Information Security (RAU)	2004	4	Project leader	R2 400 000
THRIP	Distributed Systems Security (UP)	2004	2	Member/ Project leader Project team members: Prof M Olivier, Dr H Venter (Indirect) – the 800k was our portion and not the total contract.	±R800 000
NRF	NGN Project (Telkom CEO)	2008	3	Project leader Project team members: Prof Martin Olivier, Dr Hein Venter	±R120 000
THRIP	SEGIS: Security for e-Society	2010	2	Project leader	±R 1 700 000
SAP Overture	The Overture Project	2010	2	Research Director together with senior team from SAP	R10 000 000
SAP/DEG Rustica	Rustica Project	2010	2	Research Director together with senior team from SAP	R 4 000 000

DST (SAP)	eEnergy Project	2011	1	Research Director together with senior team from SAP	R1 000 000
DST	AHCD project	2009-2015	7	Research Director together with senior team from SAP	R5m per annum
DST	Big Data Science	2016/7	1	Research leader	R2.3 m

6 RESEARCH OUTPUTS

6.1 Publications in peer-reviewed or refereed journals

Provide full details of each publication, including full titles, names of all the authors, journals, dates, page numbers etc.

- 2018 Van der Walt, E. & Eloff, J.H.P. 2018. Cyber-security: Identity Deception Detection on Social Media Platforms, in *Computers & Security*, Vol 78, pp 76-89, September 2018, (CiteScore 2017: 3.86, Journal Impact Factor 2017: 2.849), DOI: <https://doi.org/10.1016/j.cose.2018.05.015>
- 2018 Van der Walt, E. & Eloff, J. H. P. 2018. Using Machine Learning to Detect Fake Identities - Bots versus Humans. *IEEE Access*, Vol 6(1), pp 6540-6549, Print ISSN: 2169-3536, (Journal Impact Factor 2016: 3.244) DOI: <https://doi.org/10.1109/ACCESS.2018.2796018>
- 2018 Malan, K.M. de Bruin, J.A. & Eloff, J.H.P. 2018. Semi-automated Usability Analysis through Eye Tracking, in *SACJ* Vol 30, No 1 (2018), DOI: <http://dx.doi.org/10.18489/sacj.v30i1.511>
- 2016 Marshall, L. & Eloff J.H.P., 2017, "Towards an Interdisciplinary Master's Degree Programme in Big Data and Data Science: A South African Perspective", in *Communications in Computer and Information Science: ICT Education, 45th Annual Conference of the Southern African Computer Lecturers' Association, SACLA 2016*, Cullinan, South Africa, July 5-6, 2016, Revised Selected Papers, Ed: Stefan Gruner, Vol 642 2016, pp131-139, ISBN: 978-3-319-47679-7 (Print) 978-3-319-47680-3 (Online) ISSN (Print): 18650929
- 2016 Bihina Bella, M.A. and Eloff J.H.P., 2016, A near-miss management system architecture for the forensic investigation of software failures, *Forensic Science International*, (2016), Vol 259c, 234-245. ISSN: 0379-0738, Elsevier (Journal Impact Factor 2017: 1.989) <http://dx.doi.org/10.1016/j.forsciint.2015.10.007>
- 2015 Bihina Bella, M.A. and Eloff J.H.P., 2015, Using digital forensics to improve software reliability, *Computer Fraud & Security*, Volume 2015, Issue 5, May 2015, Pages 5–7. ISSN: 0379-0738, Elsevier, [https://doi.org/10.1016/S1361-3723\(15\)30035-X](https://doi.org/10.1016/S1361-3723(15)30035-X)
- 2013 Ketcha Ngassam, E., Ntawanga, F. and Eloff, J.H.P., 2013, A Roadmap for ICT Solution Deployment in Rural Areas: A Case of Kgautswane Community in South Africa, *The African Journal of Information Systems*, 5(2), Article 2, 48-64, 2013, ISSN 1936-0282, Publisher: Kennesaw State University
- 2013 Kohn M.D., Eloff M.M. and Eloff J.H.P., 2013, Digital Forensic Process Models – DFPMs, in *Computers & Security*, 38(2013), 103-115, ISSN 0167-4048, Elsevier, (CiteScore 2017: 3.86, Journal Impact Factor 2017: 2.849) <http://dx.doi.org/10.1016/j.cose.2013.05.001>, available online at <http://authors.elsevier.com/sd/article/S0167404813000849>
- 2012 Bihina Bella, M.A., Eloff J.H.P. and Olivier, M.S., 2012, Improving System Availability with Near Miss Analysis, in *Network Security*, 2012(10), 18-20, October 2012, ISSN 1353-4858, Elsevier, www.networksecuritynewsletter.com
- 2012 Padayachee K., Eloff J.H.P., 2012, Evaluating Usage Control Deterrents, *SACJ South African Computer Journal*, 48, 1-8, 2012, ISSN : 1015-7999, E-ISSN: 2313-7835. South African Computer Society (SAICSIT). <http://hdl.handle.net/10520/EJC122795>
- 2012 Modiba F.S., Kotze D.A. & Eloff, J.H.P., 2012, The Challenges of Accessing Information and Communication Technologies as Indicated by Women Entrepreneurs in Pretoria, South Africa, in *The International Journal of Interdisciplinary Social Sciences*, 6(4), pp 119-130, ISSN 1833-1882. Common Ground Publishing.

- 2011 Olivier, MS Eloff, JHP Venter HS and Botes, ME 2012, "Using e-coins to ensure fair sharing of donor funds amongst HIV healthcare facilities," South African Computer Journal, 47, 2011, 47-57. ISSN: 1015-7999, E-ISSN: 2313-7835. South African Computer Society (SAICSIT). <http://hdl.handle.net/10520/EJC28114>
- 2010 Da Veiga A., Eloff, J.H.P., 2010, A Framework and assessment instrument for Information Security Culture, in Computers & Security, 29(2), 196-207, March 2010. ISSN: 0167-4048, Elsevier, (CiteScore 2017: 3.86, Journal Impact Factor 2017: 2.849) <http://dx.doi.org/10.1016/j.cose.2009.09.002>
- 2010 Rossudowski, A.M., Venter, H.S., Eloff, J.H.P., 2010, A Security Privacy Aware Architecture and Protocol for a Single Smart Card used for Multiple Services, Computers & Security, 29(4) 393-409, June 2010, ISSN: 0167-4048, Elsevier, (CiteScore 2017: 3.86, Journal Impact Factor 2017: 2.849) <http://dx.doi.org/10.1016/j.cose.2009.12.001>
- 2009 Dlamini, M., Eloff, J.H.P., Eloff, M.M., 2009, Information Security: The Moving Target, Computers & Security 28(3-4), pp. 189-198, May-June 2009, ISSN: 0167-4048. Elsevier, (Journal Impact Factor 2017: 2.849) available online at <http://dx.doi.org/10.1016/j.cose.2008.11.007>
- 2009 Bihina-Bella. M.A, Eloff. J.H.P., Olivier, M.S., 2009, A fraud management system architecture for next-generation networks, Forensic Science International, Volume 185, Issue 1-3, Pages: 51-58, MAR 10 2009, ISSN: 0379-0738, Elsevier, <http://dx.doi.org/10.1016/j.forsciint.2008.12.013>
- 2009 Höhne, K., Eloff, J.H.P., 2009, Information Security Governance: Business requirements and research directions, Corporate Ownership and Control Journal, Volume 7, Issue 1, Fall 2009 (Continued - 2), Virtus Interpress, ISSN 17279232, <http://hdl.handle.net/10204/4408>
- 2009 Modiba, F., Ketcha-Ngassam, E., Eloff, J.H.P., 2009, Information, Communication and Technology Usage by Women-Owned Small, Medium and Micro Enterprises in Gauteng, South Africa in The International Journal of Interdisciplinary Social Sciences, Volume 4, Issue 5, pp.159-172. August 2009
- 2009 Padayachee, K., Eloff J.H.P., 2009, Adapting Usage Control as a Deterrent to address the inadequacies of Access Controls in Computers & Security, Volume 28, Issue 7, pp 536-544, (October 2009) ISSN 0167-4048. Elsevier, (Journal Impact Factor 2017: 2.849) <http://dx.doi.org/10.1016/j.cose.2009.03.003>,
- 2008 Li, Y., Venter, H.S. & Eloff, J.H.P., 2008, Standardising Vulnerability Categories, Computers & Security, 27(3-4), 71-83 (May-June 2008), ISSN 0167-4048, Elsevier, (Journal Impact Factor 2017: 2.849) available online at <http://www.sciencedirect.com/science/issue/5870-2008-999729996> or <http://dx.doi.org/10.1016/j.cose.2008.04.002>,
- 2008 Lo, J.L.C., Bishop, J, Eloff, J.H.P., 2008, SMSec: an end-to-end protocol for secure SMS, Computers & Security 27(5-6) October 2008, 154-167, ISSN 0167-4048. Elsevier, <http://dx.doi.org/10.1016/j.cose.2008.05.003>
- 2008 Obiedkov, S., Kourie, D.G., Eloff, J.H.P., 2008, Building Access Control Models with Attribute Exploration, in Computers & Security, Volume 28(1-2), February-March 2009, Pages 2-7, ISSN 0167-4048. Elsevier, available online at <http://dx.doi.org/10.1016/j.cose.2008.07.011>
- 2007 Coetzee, M., Eloff J.H.P., 2007, A trust and context aware access control model for web services conversations, TrustBus 2007, In LNCS: Trust, Privacy and Security in Digital Business, Springer, Volume 4657, pp. 115–124, 3-7 September 2007, ISSN 0302-9743
- 2007 Coetzee, M., Eloff, J.H.P., 2007, Web services access control architecture incorporating trust, Internet Research, 17(3): 291-305, ISSN: 1066-2243, Emerald Group Publishing Limited <http://dx.doi.org/10.1108/10662240710758939>
- 2007 Da Veiga A., Eloff, J.H.P., 2007, An Information Security Governance Framework, Information Systems Management 24(4) 361-372, 2007. ISSN: 1058-0530, Auerbach Publications, <https://doi.org/10.1080/10580530701586136>
- 2007 Da Veiga A., Martins, Eloff, J.H.P., 2007, Information security culture - validation of an assessment instrument, Southern African Business Review, 11(1): p. 147 – 166, April 2007. ISSN 1998-8125, © Publisher: University of South Africa (UNISA), <http://hdl.handle.net/10520/EJC92844>
- 2007 Padayachee, K., Eloff J.H.P., 2007, Enhancing Optimistic Access Controls with Usage Control, (TrustBus'07). In LNCS: Trust, Privacy and Security in Digital Business, Springer, Volume 4657, pp 75-82 September 3 – 7, 2007, Regensburg, Germany ISSN 0302-9743

- 2006 Fei, B.K.L., Eloff, J.H.P., Olivier, M.S., Venter, H.S., 2006, The use of self-organising maps for anomalous behaviour, detection in a digital investigation, *Forensic Science International*, 162(1-3): Oct, 33-37, ISSN 0379-0738, Elsevier. <http://dx.doi.org/10.1016/j.forsciint.2006.06.046>
- 2006 Izadinia, V.D., Kourie, D.G., Eloff, J.H.P., 2006, Uncovering Identities: a study into VPN tunnel fingerprinting, *Computers & Security*, 25(2): March 97-105. ISSN 0167-4048, Elsevier, <http://dx.doi.org/10.1016/j.cose.2005.12.008>
- 2006 Morkel, T., Eloff, J.H.P., Olivier, M.S., 2006, Using image steganography for decryptor distribution, *Lecture Notes in Computer Science*, 4277, LNCS - I, 322-330, Publisher Springer-Verlag Berlin/Heidelberg, ISSN: 0302-9743, http://dx.doi.org/10.1007/11915034_125 .
- 2006 Obiedkov, S., Kourie, D.G., Eloff, J.H.P., 2006, On Lattices in Access Control Models, *Lecture Notes in Artificial Intelligence*, LNAI 4068, 374-387, Edited by J.G. Carbonell & J. Siekmann, Subseries of *Lecture Notes in Computer Science*, Springer-Verlag Berlin, ISSN: 0302-9743. http://dx.doi.org/10.1007/11787181_27
- 2006 Wojcik, M., Eloff, J.H.P., Venter, H.S., 2006, Trust Model Architecture: Defining Prejudice by Learning, *Lecture Notes in Computer Science*, 4083, 182-191, Publisher Springer Berlin / Heidelberg, ISBN 978-3-540-37750-4.
- 2005 Coetzee, M., Eloff, J.H.P., 2005, Autonomous trust for Web Services, *Internet Research*, 15(5), 498-507, ISSN: 1066-2243. Emerald Group Publishing Ltd <http://dx.doi.org/10.1108/10662240510629448>
- 2004 Coetzee, M., Eloff, J.H.P., 2004, Towards Web Services Access Control, *Computers & Security*, 23(7), 559-570, ISSN 0167-4048, Elsevier. <http://dx.doi.org/10.1016/j.cose.2004.05.006>
- 2004 Granova, A., Eloff, J.H.P., 2004, Online banking and identity theft: who carries the risk? *Computer Fraud & Security*, Volume 2004, Issue 11, November 2004, Pages 7-11 ISSN: 0379-0738, Elsevier, [http://dx.doi.org/10.1016/S1361-3723\(04\)00134-4](http://dx.doi.org/10.1016/S1361-3723(04)00134-4)
- 2004 Venter, H.S., Eloff, J.H.P., 2004, Vulnerability forecasting-a conceptual model, *Computers & Security*, 23(6), 489-497, ISSN 0167-4048. Elsevier, <http://dx.doi.org/10.1016/j.cose.2004.06.005>
- 2004 Venter, H.S., Olivier, M.S., Eloff, J.H.P., 2004, PIDS: A Privacy Intrusion Detection System, *Internet Research*, 14(5), 360-365, ISSN 1066-2243. Emerald Group Publishing Ltd, <http://dx.doi.org/10.1108/10662240410566953>
- 2003 Johnston, J., Eloff, J.H.P., Labuschagne, L., 2003, Security and human computer interfaces, *Computers & Security*, 22(8), ISSN 675-684. 0167-4048, Elsevier.
- 2003 Venter, H.S., Eloff, J.H.P., 2003, Assessment of Vulnerability scanners, *Network Security*, 2003(2): Feb 11-16, ISSN 1353-4858, Elsevier
- 2003 Venter, H.S., Eloff, J.H.P., 2003, Evaluating Vulnerability Scanners Using Harmonised Vulnerability Categories, *South African Computer Journal*, 31: Dec 40-45, ISSN 1015-7999.
- 2003 Venter, H.S., Eloff, J.H.P., 2003, Taxonomy for Information security technologies, *Computers & Security*, 22(4), 299-307. 0167-4048 Elsevier.
- 2002 Botha, R., Eloff, J.H.P., 2002, An Access Control Architecture for XML documents in workflow environments, *South African Computer Journal*, 28, 3-10.
- 2002 Höhne, K., Eloff, J.H.P., 2002, Information Security Policy - What do International Information Security Standards Say?, *Computers & Security*, 21(5), 402-409. 0167-4048.
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- 2002 Smith, E., Eloff, J.H.P., 2002, A Prototype for Assessing Information-Technology Risks in Health Care, *Computers & Security*, 21(3), 266-284. 0167-4048.
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6.4 Non-refereed publications or popular articles

Provide full details of each publication, including full titles, names of all the authors, journals, dates, page numbers etc.

6.4.1 Publications in other journals

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- 2009 Dlamini, M., Eloff, J.H.P., 2009, *Budgeting for Information Security*, Insight, SAP CEC Research Pretoria
- 2008 Eloff, J.H.P., Van Greunen D, 2008, *The Future Internet: security versus usability*, Insight, SAP CEC Research Pretoria
- 2005 Coetzee, M., Eloff, J.H.P., 2005, *An Access Control Framework for Web Services*, Information Management and Computer Security, 13(1), 29-38. ISSN: 0968-5227, Emerald Insight, <http://dx.doi.org/10.1108/09685220510582656>
- 2005 Eloff, J.H.P., 2005, *Can machines trust one another?*, Innovation, University of Pretoria,
- 2005 Eloff, J.H.P., Eloff, M.M., 2005, *Information Security Architecture*, Computers Fraud & Security, 2005(11): Nov 10-16. ISSN: 0379-0738 [http://dx.doi.org/10.1016/S1361-3723\(05\)70275-X](http://dx.doi.org/10.1016/S1361-3723(05)70275-X)
- 2005 Granova, A., Eloff, J.H.P., 2005, *A legal overview of phishing*, Computer Fraud & Security, 2005(7): July 6-11. ISSN: 0379-0738 Elsevier [http://dx.doi.org/10.1016/S1361-3723\(05\)70231-1](http://dx.doi.org/10.1016/S1361-3723(05)70231-1)
- 2004 Granova, A., Eloff, J.H.P., 2004, *Identity Theft*, Computer Fraud & Security, 2004(11), 7-11, Elsevier Advanced Technology, ISSN 1361-3723. [http://dx.doi.org/10.1016/S1361-3723\(04\)00134-4](http://dx.doi.org/10.1016/S1361-3723(04)00134-4)
- 2003 Eloff, J.H.P., Granova, A., 2003, *Computer Crime Case Analysis*, Computer Fraud & Security, 2003(10), 14-17, Elsevier Advanced Technology, ISSN: 1361-3723.

- 2001 Botha, R., Eloff, J.H.P., 2001, *A Framework for Access Control in Workflow Systems*, Information Management and Computer Security, 9(3), 126-133.
- 2000 Labuschagne, L., Eloff, J.H.P., 2000, *Electronic commerce: the information security challenge*, Information Management & Computer Security, 8(3) 154-157, Bradford.
- 1999 Eloff, J.H.P., Prinsloo, JJ, 1999, *Web Browsers: Information Security issues*, Computer Fraud & Security November 1999, ISSN: 1361-3723, Elsevier Advanced Technology
- 1998 Labuschagne, L, Eloff, J.H.P., 1998, *Real-time Risk Analysis using Java concepts* Information Management and Computer Security Vol. 6, No. 5
- 1998 Van Buren, S, Eloff, J.H.P., 1998, *Framework for evaluating security protocols in a banking environment* Computer Fraud & Security ISSN 1361-3723, Elsevier

6.4.2 Papers published in other national conference proceedings

- 2009 Veerasamy N. Eloff J.H.P., 2009, *Red and Blue Team Methodology*, a short paper at SACLA 2009, 29 June – 1 July 2009. Mpekweni Beach Resort, Eastern Cape, South Africa, ISBN:978-1-60558-683-0
- 2006 Coetzee M, Eloff, J.H.P., 2006, *A Framework for Web Services Trust*, SOA and Web Services 2006 Conference Gallagher Estate, Midrand, South Africa 16 – 17 August 2006
- 2005 Bihina, M, Eloff, J.H.P., Olivier, MS, 2005, *Using the IPDR standard for NGN billing and fraud detection*, Proceedings of the 5TH Annual International Information Security South Africa (ISSA) conference, July 2005, ISBN 1-86854-625X, Johannesburg, South Africa
- 2005 Fei, BKL, Tillwick, H, Eloff, J.H.P., Venter HS, and Olivier, MS, 2005, *Using Self-Organising Maps for Anomalous Behaviour Detection in a Computer Forensic Investigation*, Proceedings of the 5TH Annual International Information Security South Africa (ISSA) conference, July 2005, ISBN 1-86854-625X, Johannesburg, South Africa
- 2005 Keleta, Y, Coetzee, M., Eloff, J.H.P., Venter, HS, 2005, *Proposing a Secure XACML architecture ensuring privacy and trust*, Proceedings of the 5th Annual International Information Security South Africa (ISSA) conference, July 2005, ISBN 1-86854-625X, Johannesburg, South Africa
- 2005 Laubscher, R, Rabe, DJ, Olivier, MS, Eloff, J.H.P., Venter, HS, 2005, *Computer forensics for a computer-based assessment: the preparation phase*, Proceedings of the 5th Annual International Information Security South Africa (ISSA) conference, July 2005, ISBN 1-86854-625X, Johannesburg, South Africa
- 2004 Fei, BKL, Eloff, J.H.P., Venter, HS, and Olivier, MS 2004, *Classifying Computer Forensic Tools with the Aim of Extending the Functionality of EnCase*, Proceedings of the annual Post Graduate Symposium of the South African Institute of Computer Scientists and Information Technologists conference (SAICSIT), October 2004, Stellenbosch, South Africa, Unisa Press
- 2004 Keleta YG, Eloff, J.H.P., 2004 *Web services security policy integration*, Proceedings of the annual Post Graduate Symposium of the South African Institute of Computer Scientists and Information Technologists conference (SAICSIT), October 2004, Stellenbosch, South Africa, Unisa Press
- 2004 Morkel, T, Eloff, J.H.P., 2004, *Encryption Techniques: A Timeline Approach*, Proceedings of the Research in Progress at the 4th Annual International Information Security South Africa (ISSA) conference, July 2004, South Africa, ISBN 1-86854-522-9,
- 2003 Venter, HS, Eloff, J.H.P., 2003, *State of the art intrusion detection and vulnerability scanning*, Proceedings of the annual Post Graduate Symposium of the South African Institute of Computer Scientists and Information Technologists conference (SAICSIT), September 2003, Johannesburg, South Africa, Unisa Press, 2003, ISBN 1-58113-774-5
- 2002 Coetzee, M, Eloff, J.H.P., 2002, *Secure Database Connectivity On The WWW*, Proceedings of ISSA2002, South Africa
- 2002 Höhne, K, Eloff, J.H.P., 2002, *Information Security Policy - What do International Information Security Standards say?*, Proceedings of ISSA2002, July 2002, Johannesburg, South Africa
- 2002 Looek, M, Eloff, J.H.P., 2002, *Information Security Issues in Data Mining*, Proceedings of ISSA2002, July 2002, Johannesburg, South Africa

- 2002 Martins, A, Eloff, J.H.P., 2002, *Promoting information security culture through an information security culture model*, Proceedings of ISSA2002, July 2002, Johannesburg, South Africa
- 2002 Robbertze, L, Eloff, J.H.P., 2002, *Information Security Implementation Methodologies*, Proceedings of ISSA2002, July 2002, Johannesburg, South Africa
- 2002 Venter, HS, Eloff, J.H.P., 2002, *Generic Vulnerability Categories*, Proceedings of ISSA2002, July 2002, Johannesburg, South Africa
- 1999 Eloff, J.H.P., 1999, *Designing and maintaining secure software systems*, Info Sec Africa 99 Conference Johannesburg, South Africa
- 1999 Eloff, J.H.P., 1999, *Holistic view to information security* conference SUN Johannesburg, South Africa
- 1999 Eloff, J.H.P., 1999, *Web browsers and Information Security issues* conference SUN Johannesburg, South Africa
- 1999 Eloff, J.H.P., von Solms, SH 1999, *Information security – benchmarking* Infosec 99 Johannesburg, South Africa
- 1998 Eloff, J.H.P., 1998, *Firewall technology and Internet Security*, Information Security '98 Conference, Johannesburg, South Africa
- 1998 Eloff, J.H.P., 1998, *Groupware and Information Security*, Special Interest Group for Information Security, Johannesburg, South Africa
- 1998 Eloff, J.H.P., 1998, *Network Security: Understanding the Java Security Model* Disaster Recovery and Information Security Conference, Midrand, South Africa
- 1995 Eloff, J.H.P., 1995, *Implementing 3 critical procedures to identify, manage and minimise your organisation's I.T. security risk: How vulnerable is your information system*, Proceedings of I.T. Security, Johannesburg, South Africa
- 1995 Eloff, J.H.P., 1995, *Information Security Research*, Proceedings of the 7th Annual Computer Society of South Africa Conference, Johannesburg, South Africa
- 1995 Eloff, J.H.P., 1995, *Methodology for implementing information security in a large organization*, ISCOR Information Security Seminar, Pretoria, South Africa
- 1995 Eloff, J.H.P., 1995, *Minimise the vulnerability of your organisation*, Proceedings of Corporate Crime: I.T. Security Alert, Johannesburg, South Africa
- 1995 Eloff, J.H.P., Labuschagne, L, 1995, *Activating dynamic countermeasures to reduce risk*, Proceedings of the 7th Annual Computer Society of South Africa Conference, Johannesburg, South Africa
- 1995 Labuschagne, I, Eloff, J.H.P., 1995, *Object Orientation Analysis (OOA): A new approach that challenges traditional design of systems*, Proceedings of the second Annual Object Orientation Conference, Johannesburg, South Africa
- 1993 Booyesen, HAS, De Ru, WG, Eloff, J.H.P., 1993, *New Technologies in Information Security*, Proceedings of Information Security Seminar, Johannesburg, South Africa
- 1993 Booyesen, HAS, De Ru, WG, Eloff, J.H.P., 1993, *New Technologies: Expert Systems and CASE*, Proceedings of Computer Fraud and Counter Measures, Johannesburg, South Africa
- 1993 Eloff, J.H.P., 1993, *Information Security: What are the risks involved?*, Proceedings of EIS: "The link with Management Information Systems", Johannesburg, South Africa
- 1993 Eloff, J.H.P., Van Dyk, P, 1993, *Information Security in Financial Institutions*, Proceedings of the Banking Technology Seminar, Johannesburg, South Africa
- 1992 Eloff, J.H.P., 1992, *Computer Security Investigation in an Organisation*, Management approaches to Information security in South Africa, Special Interest Group for Information Security, Johannesburg, South Africa
- 1992 Eloff, J.H.P., Klut J, 1992, *MethoDex: A Methodology for expert system development*, Expert'92, Pretoria, South Africa
- 1991 Eloff, J.H.P., Marais, JL, 1991, *On software defects in application user interfaces*, Proceedings of SAIEE'91, Johannesburg, South Africa
- 1991 Eloff, J.H.P., Marais, JL, 1991, *The implementation of Gadgets User Interface Management System*, Proceedings of SAIEE'91, Johannesburg, South Africa

- 1990 Badenhorst, KP.& Eloff, J.H.P., 1990, *Computer security methodology: risk analysis and project definition*, Proceedings of INFOSEC'90, Pretoria, South Africa
- 1990 Eloff, J.H.P., Van Dyk, P, 1990, *RAUSEC: A microcomputer security model*, Proceedings of INFOSEC'90, Pretoria, South Africa
- 1989 Eloff, J.H.P., Eloff, MM, 1989, *A Methodology for the Management of End-user Computing*, Proceedings of 5th South African Computer Congress, Johannesburg, South Africa
- 1981 Eloff, J.H.P., (1981) *Selection Process for Security Packages* Proceedings of the 2nd South African Computer Symposium Pretoria, South Africa

6.5 Patents

Provide full details of provisional or full patents

- 2015 Coetzee, J.A., Van der Westhuizen, C., Hesse, H., Zielinski, M.P., Eloff, J.H.P., Ketcha Ngassam, E. "Intelligent Task Scheduler", US Patent no: US2015/0006222
- 2014 Zielinski, M.P., Eloff, J.H.P., "Multi-layer data security", US Patent no: US2014/0372768, European Patent no: EP2816499A1
- 2014 Ntawanga, F., Ketcha Ngassam, E., Eloff, J.H.P., Zielinski, M.P., "Hybrid context-sensitive matching algorithm for retrieving product catalogue information", US Patent no: US 8756120
- 2014 Method for the intelligent combination and use of the functionalities of one or more devices to act and be recognized as a new single device, Eloff, J.H.P., Przewloka, M., Zielinski, M.P.(filed)
- 2013 Zielinski, M.P., Eloff, J.H.P., "Controlled Sharing of Information in a Virtual Organization", US Patent no: US 8533774 B2,
- 2012 Zielinski, M.P., Eloff, J.H.P et.al Context-sensitive task scheduler for mobile smart phones (filed)
- 2012 Zielinski, M.P., Eloff, J.H.P - A method to prevent unauthorized use of shared information through the use of Self-aware Data Objects

6.6 Keynote addresses

Provide full details of each publication, including full titles, names of all the authors, journals, dates, page numbers etc.

- 2018 Eloff, J.H.P., (2018), Invited keynote, The IFIP Working Group 8.11/11.13 Information Security Workshop, Cape Town, 14-15 June 2018.
- 2018 Eloff, J.H.P., (2018), Invited panel member – Bilateral between Sweden and South Africa on the convergence of Cybersecurity and Big Data Science
- 2015 Eloff, J.H.P., (2015), 'Big Data and Data Science – protecting minors on the Internet' – South African Police Conference, Pretoria. Nov 2015
- 2013 Eloff, J.H.P., (2013), Interoperability as a catalyst for Business Innovation, Keynote speech at the International workshop "Interoperability to support Business-IT alignment", International IFIP Working Conference on Enterprise Interoperability.
<http://www.utwente.nl/ewi/is/events/IWEI2013/workshop2.html>
- 2013 Eloff, J.H.P., (2013), Collaborating for Health, Invited speech - "2nd South African – German Workshop on IT-°@-based Technologies for Rural Health Care" – Feb 2013
- 2012 Eloff, J.H.P., (2012), Personalisation of Security Services in a mobile cloud infrastructure. Invited speech and panelist member - '2012 Africa-EU Cooperation Forum on ICT' - NOV. 28-29, 2012 - Lisbon, Portugal
- 2012 Eloff, J.H.P., (2012). 'The Need for Innovation in Information Security' Keynote speech at 'Theories and Intricacies of Information Security Problems' - ISSA INTRICATE/SEC workshop, August 2012, Johannesburg

- 2011 Eloff, J.H.P., (2011). 'A Virtual Collaborative Ecosystem to Enhance and Drive Innovation', Invited speaker, 2011 6th International Conference on Pervasive Computing and Applications (ICPCA) 25 – 29 October 2011, Port Elizabeth, South Africa
- 2011 Eloff, J.H.P., (2011). 'Collaboration with Africa / BRICS for human oriented approaches to security, privacy and trust' 1st BIC Annual Forum, Building International Cooperation (BIC) for Trustworthy ICT. 29/11/2011, Brussels
- 2010 Eloff, J.H.P., invited participant at "Trust in the Information Society", Leon, Spain, 10 – 11 February 2010, <https://trustworthyict.inteco.es/index.php/en>
- 2009 Eloff, J.H.P., (2009) 'A South African Perspective for the Irish Future Internet Forum' presented at the Second Irish Future Internet Forum: Towards a Trustworthy Future Internet, View on Global perspective; Dublin, Ireland, 3 December 2009, <http://www.future-internet.ie/FutureInternet/index.php>
- 2009 Eloff, J.H.P., invited delegate: Knowledge Exchange Fund Study Visit to Finland, SAFIPA, Helsinki, Finland, 26 – 30 October 2009,
- 2009 Eloff, J.H.P., Keynote speaker and Invited panelist, ISSA 2009, Johannesburg, South Africa, July 2009
- 2009 Eloff, J.H.P., Public Private Partnerships invited delegate to Panel Discussion at 1st Euro-Africa Cooperation Forum on ICT Research, (EuroAfrica2009), Co-organised by the European Commission and the African Union Commission (AUC) with the support of the EuroAfriCa-ICT project, a FP7 coordination and support action aiming at enhancing ICT research cooperation between Europe and sub-Saharan Africa. Brussels, Belgium, 25 - 26 March 2009
- 2008 Eloff, J.H.P., invited delegate: ICT Event 2008, Europe's largest ICT research event in 2008, organised by the European Commission in cooperation with the French Presidency of the European Union, Lyon, France, 25 - 27 November 2008
- 2007 Eloff, J.H.P., (2007), Information Security Framework, Information Security Workshop '07, Universitat Fribourg – iimt, 27 September 2007,
- 2006 Eloff, J.H.P., (2006), *Mobility – a new player in the game?*, iimt Security Brush-up Workshop 2006, Siemens Schweiz AG, Zürich, Switzerland, October 2006
- 2003 Eloff, J.H.P., (2003), *State of the Art Vulnerability Detection and Suggestions for improvement*, International Conference on Information and Communication Technology, 30 November – 2 December 2003, Cairo, Egypt
- 2003 Eloff, J.H.P., (2003), *Information / Computer Security: International Standards Standardization: information and communication technologies*, National Standards Conference, 9 October 2003, CSIR Conference Centre, Pretoria, South Africa
- 2003 Eloff, J.H.P., 2003, *Defining New Security Business Structures*, Thought Leadership in Security, Giving CSOs the Competitive Edge, September 29th to 1st Oct, 2003, Unisys, International Management Centre, Saint-Paul-de-Vence, France
- 2003 Eloff, J.H.P., (2003), *Measuring Information Security - State of the art and best practices*, iimt Information Security Brush-Up Workshop, Fribourg, Switzerland, February 2003
- 2003 Eloff, J.H.P., (2003), *Information Security Management - certification and benchmarking*, iimt INFORMATION SECURITY BRUSH-UP WORKSHOP, Fribourg, Switzerland, February 2003
- 2002 Eloff, J.H.P., (2002), *Information Management Architecture – an overview* Information Security Architectures Workshop, Fribourg, Switzerland, February 2002
- 2002 Eloff, J.H.P., (2002), *Tactical level – an overview of the latest trends in risk analysis, certification, best practices and international standards* Information Security Architectures Workshop, Fribourg, Switzerland, February 2002
- 2002 Eloff, J.H.P., (2002), *How to develop an Information Security Policy* Information Security Architectures Workshop, Fribourg, Switzerland, February 2002

6.7 Technical reports, prototypes & technical demonstrations at international technology exhibitions

Provide full details.

- 2014 JHP Eloff and Team, Business in Your Pocket (BiYP), Pilot for Vodacom successfully completed and handed over for commercialisation, South Africa with extensive international collaboration

- 2014 JHP Eloff and Team, Business in Your Pocket (BiYP), Mobile Business services for very small enterprises in services industry, November 2014, Berlin
- 2013 JHP Eloff and Team, Dashboard prototype developed in our lab under my leadership won the EMEA SAP Dashboard competition
- 2013 JHP Eloff and Team, Detecting counterfeit medicine – a prototype developed under my leadership was selected as a candidate for the ITU young entrepreneur world finals
- 2010 JHP Eloff and Craig Haworth, Sybase, *Business Services for Very Small Enterprises*, TechEd, Berlin, Germany, October 2010
- 2010 JHP Eloff, A web services prototype for small businesses, Saphire Now, Frankfurt, Germany
- 2010 JHP Eloff, Prototype Demo: ‘*Connected Worlds – Linking Spaza Shops (VSEs) to Advanced Software Business Platforms*’, at CeBIT, Hannover, Germany, March 2010

6.8 Other publications – editorials, policies, standards

Provide full details.

- 2009 Dimitris Gritzalis, Editor-in-Chief and Jan Eloff, Associate Editor (February 2010), Computers & Security Volume 29, Issue 1, Pages 1-2 Editorial
- 2008 Contributing member of JTC 1/SC 27 - IT Security techniques: ISO/IEC 27005:2008, Information technology -- Security techniques -- Information security risk management
- 2005 Contributing member of JTC 1/SC 27 - IT Security techniques: ISO/IEC 27002:2005, Information technology -- Security techniques -- Code of practice for information security management

7 OTHER SCHOLARLY RESEARCH-BASED CONTRIBUTIONS

7.1 Participation in conferences, workshops and short courses - specify type of contribution

Provide full details of participation in national and international conferences etc

7.1.1 National

- 2018 Developed and presented two-day and a three-day Course in Cybersecurity Essentials for Industry
- 1995 – Participated in various national conferences and workshops as organising Committee Member or programme committee member since 1995, amongst others SAICSIT Conferences, ISSA Conferences

7.1.2 International

- 2018 Participated in the IKCEST Governing Board & Advisory Committee meeting and International Symposium 2018 held in Deqing County, Zhejiang Province on Oct. 25-26, 2018.
- 2012 Participated in the Africa-EU Cooperation Forum on ICT in 2012 in Lisbon, Portugal as South African representative
- 2001-2006 South African representative of the ISO/IEC JTC1/ SC27/WG1 working group meetings for SABS from 2001-2006.
- 1995 – Participated in various international conferences and workshops as organising Committee Member or programme committee member since 1995, amongst others IFIP SEC conferences and Working Group meetings, ISO/IEC JTC 1/SC 27 Workgroup meetings, SAICSIT Conferences, ISSA Conferences

7.2 Teamwork and collaboration with others:

- Other researchers (national and international)
- Other research institutions (national and international)

Industry

7.3 Membership in national and international bodies

List all the scientific associations or societies to which you belong. Name your involvement, e.g. honorary member, founder member, full member, chairman, president, secretary

- 2004 – 2006 President of the South African Institute of Computer Scientists and Information Technologists (SAICSIT)
- 2002 – 2004 Vice-President of the South African Institute of Computer Scientists and Information Technologists (SAICSIT)
- 2002 – 2007 Chairperson for SABS committee: SC 71F: Information Security
- 1990 – 2002 Chairperson of Special Interest Group of Information Security, South Africa (ISSIG)
- 1995 – 2001 Chairperson of international work group IFIP WG11.2 – Small Systems Security
- 1995 – Member of Technical Committee 11 of IFIP (South African representative of IFIP TC11)

7.4 Visits to local and overseas universities or research institutes as guest professor or researcher

Details are required

- 2015 Research visit to Rutgers University, USA to set up Big Data Science collaboration
- 2001 – 2011 Annually invited guest professor at the International Institute of Management in Telecommunications, University of Fribourg, Switzerland, presenting a module on information security
- 2000, 1994 Guest professor on invitation at University of Zurich, Switzerland for the summer semester

8 ARTISTIC OUTPUTS (if applicable)

8.1 Provide full details of artistic outputs, including public reviews of work, coordinating reports by experts in the field, publisher, production company etc

9. MANAGEMENT AND ADMINISTRATIVE DUTIES

9.1 List your involvement in departmental activities (e.g. administrative functions), faculty (e.g. faculty committees) or other university activities.

- 2016 + Deputy Dean Research and Postgraduate Studies, Faculty of Engineering, Built Environment, University of Pretoria
- 2009 – 2015 Research Director, SAP Research Centre, Pretoria, South Africa
- 2005 – 2008 Chairperson, School of Information Technology, University of Pretoria
- 2002 – 2008 Head of Department, Department Computer Science, University of Pretoria

10 COMMUNITY SERVICE OR PROFESSIONAL SKILLS

10.1 Outreach projects

(e.g. project titles, institutions and communities involved, etc.)

2003 – 2008 PumaScope project, joint project between Finish Government, Mpumalanga Education Department and Department Computer Science(UP)

10.2 Professional service performed

(e.g. courses presented, lectures at professional associations/clubs, radio or TV appearances, outside expert or appointment committee, etc.)

1.1 OTHER (RADIO INTERVIEWS, NEWSPAPER ARTICLES, POPULAR PRESS)

- 2011 "Putting Spaza shops and other very small enterprises in the fast lane: ICT in the service of emerging economies" Biffy van Rooyen, ScienceScope, CSIR
- 2010 Eloff J.H.P., 2010, "The bridge builders" Front cover article – SAP World Issue 2/2010
- 2010 Radio interview on prototype development for mobile phones for Spaza shop owners in rural areas - CeBIT, Hannover, Germany, 2 – 6 March 2010, Deutsche Welle - TV press films and footage available at <http://cebitdownload.filmplattform.com/> username: presse password: film
- 2010 ITWeb article: 'Spaza owner wows CeBIT', By Jovan Regasek, ITWeb publisher and CEO, Germany, 2 Mar 2010 http://www.itweb.co.za/index.php?option=com_content&view=article&id=30914:spaza-owner-wows-cebit&catid=69.
- 2009 Eloff J.H.P., 2009 "Telecommunications: Demand blossoms but the infrastructure is creaky" interviewed by Tom Burgis, Financial Times, July 16, 2009 http://search.ft.com/search?queryText=eloff&ftsearchType=type_news
- 2009 Eloff J.H.P., 2009, "Case study: Text messages give shopkeepers the power to bulk buy", interviewed by Tom Burgis, Financial Times, May 28, 2009, http://search.ft.com/search?queryText=eloff&ftsearchType=type_news
- 2009 Eloff J.H.P., 2009 "New SAP Meraka UTD research director aims for collaboration" IT web, 18 Feb 2009 Business, www.itweb.co.za
- 2008 Eloff J.H.P., 2008 "Banks clam up as clients lose millions in scam"; "Victim's SIM swop fraud nightmare"; "Don't be duped"; Interviewed by Justine Gerardy, Saturday Star, regarding Sim swop fraud, 12 January 2008.

10.3 Clinical service

(e.g full detail of rank/level of joint appointment, level of clinical service rendering responsibilities, university administration and academic responsibilities, CPD involvement, clinical trials involvement, etc.)

10.4 Involvement with other universities/scientific institutions

(e.g. external examiner, editor of journal, advisory council, CSIR, SA Council for Scientific Professions)

10.4.1 External examiner

Act as external examiner of various subjects on both undergrad and postgrad level for University of Johannesburg, UNISA, North West University, University of the Free State, VISTA University and the Institute of Chartered Accountants

External examiner of dissertation and theses

University	Degree	Year	Candidate	Title
University of Melbourne	PhD	2018	Alshaikh, M	Information Security Management Practices in Organisations
University of South Africa	MSc	2016	du Toit, P	An Evaluation of Non-Relational Database Management Systems as Suitable Storage for User Generated Text-Based Content in a Distributed Environment

Deakin University	PhD	2016	Pallegedara DRS	Minimising the Unauthorised Disclosure of Organisational Information via Social Media
University of Melbourne	PhD	2012	Shedden, P	Protecting information and knowledge assets in organisations: towards an integrative approach
Nelson Mandela University	PhD	2011	Ophoff, J	A Model for Personal Privacy Management in Cellular Communications
University of Melbourne	PhD	2010	Maynard, Sean Brian	Strategic information security policy quality assessment: a multiple constituency perspective
University of Johannesburg	MSc	2010	Markides, BM	Trust in a decentralised mobile social network
University of KZN	MSc	2010	Gordon, RL	Trust Establishment in Mobile ad hoc Networks
University of Cape Town	PhD	2007	Arnab, A	Towards a general framework for Digital Rights Management (DRM)
Royal Institute of Technology, University of Stockholm	MSc	2006	Tarimo, Charles N	ICT Security Readiness Checklist for Developing Countries: A Social-Technical Approach
Royal Institute of Technology, University of Stockholm	PhD	2000	Frisinger, Ann	Security in the Networked Education Process

10.4.2 Board and Advisory Panel Memberships

2018	Elected as a member of the Governing Board and Advisory Committee of the UNESCO / China International Knowledge Centre for Engineering Science and Technology (IKCEST). Participated in the IKCEST Governing Board & Advisory Committee meeting and International Symposium 2018 held in Deqing County, Zhejiang Province on Oct. 25-26, 2018.
2016	Member of the evaluation panel of the Swiss South African Joint Research Programme (SSAJRP) Joint Research Projects, under the auspices of the Swiss National Science Foundation (SNSF) and South African National Science Foundation (NRF)
2016	Invitation member of the DST / CSIR NICIS Tier2 Data NODE Proposal Call Evaluation Panel, the review and evaluation panel to adjudicate proposals received from consortia of South African (SA) Higher Education Institutions to establish and host a regional Tier 2 data node (T2NODE).
2016	Invited member of the CSIR Meraka Institute Research Advisory Panel (RAP). The RAP is a high level external panel composed of members in industry, academia and government. The responsibilities of the RAP are to advise on CSIR Meraka's strategic research direction and portfolio; to review the quality of the research undertaken and the research outputs produced; and to provide a peer review of Meraka's performance against its stated research objectives.
2016	Invited Task team member of Department of Science and Technology Cybersecurity Research, Development & Innovation agenda for South Africa
2015	Invited task team member of the Joint Government-Industry Task team on the Research and Development Tax Incentive in the Department of Science and Technology
2014 –	Member of the Advisory Committee of the Department of Computer Science, Faculty of Engineering, Built Environment & Information Technology, University of Pretoria
2002 – 2012	Board member of SoftstartBTI, an ICT entrepreneurial development company in South Africa until
2002 – 2007	Member of the board of Roedean School (SA), Parktown, Johannesburg
2002 – 2004	Member of the scientific review panel of the NRF for Mathematical Sciences

10.4.3 Other referee work

Member of the review panel of the “Swiss South African Joint Research Programme (SSAJRP) Joint Research Projects: Call for Proposals 2016”

Reviewer for the Research Council of Norway: Project application of Audun Josang, 2010

Appointment panel for Professor position at Royal Institute of Technology, Stockholm, Sweden

Referee work for the **National Research Foundation of South Africa**

Referee work for the **Australian Research Council**

Reviewer for the NRF-Royal Society Initiative grant application.

Referee work for the National Science Foundation, **Switzerland**

10.5 Referee duties

(e.g. journals, dissertations/theses)

From 2007 to date I am an associate-editor of the world-leading Computers & Security journal published by Elsevier.

I am on the editorial panel for the international Computer Fraud & Security bulletin published by Elsevier since 2004.

I reviewed the South African Computer Journal (SACJ) for the Academy of Science of South Africa (ASSAf) in order to confirm the journal's standing for DHET subsidy purposes.

I am on the editorial advisory board for Information & Computer Security published by Emerald since 2003.

11 AWARDS AND SCIENTIFIC/SCHOLARLY RECOGNITION

11.1 Evaluation status as scientist/scholar

(e.g. NRF; first evaluation and date, subsequent evaluations and dates)

2019 - 2025 B rating

Evaluated by the National Research Foundation of South Africa as an independent researcher enjoying considerable international recognition for the high quality and impact of research outputs. (B-rating)

2002 - 2018 B rating

Evaluated by the National Research Foundation of South Africa as an independent researcher enjoying considerable international recognition for the high quality and impact of research outputs. (B-rating)

1993 - 2002 C rating:

Evaluated by the National Research Foundation of South Africa as an established researcher who, as individuals or members of a team, produce research outputs of an international standard which are appreciated by the science, engineering or technological community internationally.

1988 - 1993 Y rating:

Young researcher who are recognized as having the potential to establish themselves

National Research Foundation of South Africa website: <http://www.nrf.ac.za/>

11.2 Research awards and prizes

Full details are required

2017 Recipient of the 2017 SAICSIT Pioneer Award. With this award, The SAICSIT Council recognize individuals who have played pioneering roles in promoting Computer Science and Information Technology as academic disciplines in SA.
http://www.saicsit.org/index.php?option=com_content&view=article&id=54&Itemid=198

2013 2013 Academic Achievers recipient, University of Pretoria,

- 2012 Received Certificate of Appreciation from Elsevier and the Editor of Computers & Security for serving on the editorial board since 2010.
- 2009 One of the top 25 most downloaded articles in the last quarter of 2009: Dlamini, M., Eloff, J.H.P., Eloff, M.M., 2009, *Information Security: The Moving Target*, Computers & Security 28(3-4) May-June 2009, pp. 189-198, <http://dx.doi.org/10.1016/j.cose.2008.11.007>
- 2008 Leading Minds in Research Award. This award honours the University of Pretoria's Leading Minds for research contributions over the past hundred years.
- 2006 – 2008 Outstanding Academic Achiever Award, University of Pretoria
This award recognizes exceptional academic achievement and research efforts at the University of Pretoria.
- 2009 – 2011 Outstanding Academic Achiever Award, University of Pretoria
- 2007 Literati Award for the following research paper: Marijke Coetzee, J.H.P. Eloff (2007), "Web services access control architecture incorporating trust", Internet Research, Vol.17, No. 3,
- 2001 International Federation for Information Processing (IFIP) Silver Core and Outstanding Services Award for his long-term services to the IFIP.
- 2001 Literati Award for the paper: Reinhardt A. Botha, Jan H.P. Eloff (2001), "A framework for access control in workflow systems", Information Management & Computer Security, 9(3) 126-133

11.3 Teaching awards and prizes
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Full details are required

11.4 Artistic awards and prizes
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Full details are required

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