

Select List of Publications 2014-15

The 52 UNSW staff associated with the Australian Centre for Cyber Security are committed to inter-disciplinary study of the field. They represent a wide number of “home” disciplines (science, engineering, information technology, law, politics, geography, and international relations). All work in some way on cyber-related issues. This selection of their publications reflects those most closely focused on cyber-related themes published in 2014, the year ACCS was established, and up to 31 March 2015. We are updating this list.

Research topics visible in this list include:

Acoustics	eGovernment	Naval design
Aerodynamics and engine performance	Environmental planning	Network analysis for social capital
Air traffic control	eVoting	Network traffic management
Algorithm development	Fingerprinting	Outer Space
Anomaly detection	Forensics and law enforcement	Piracy
Australian policy and law	Free access data	Privacy technologies and policies
Authentication and identity	Geographic visualisation	Pure mathematics
Autonomous vehicles	GPS	Red-teaming
Biometrics	Green energy	Remote sensing
Brain-machine interaction	Highly secure computing	Risk management
China cyber	Highly secure computing	SCADA
Chip design	Home networks in the cloud	Sea states
Computer games	Industrial control systems	Secure data collection
Corporate ethics	International law and governance	Security in civil nuclear power
Critical infrastructure protection	Internet freedom and censorship	Security in the cloud
Crowd sourcing	Intrusion detection	Smart grids
Cyber attack	Law enforcement	Social media and revolution
Cyber emergency response	Logistics	Social media in emergency response
Cybernetics	Malware removal	Trust
Data sovereignty	Media law	User/machine interface
Data summarization and aggregation	Medical informatics	Wearable computing
Digital skills	Mineralogy	Wi-fi security
Diplomacy for cyber security	Mobile computing	
Disruptive systems	Mobile video applications	
Drones and privacy	Mobile video streaming	

Books

- Abbass HA, *Computational Red Teaming: Risk Analytics of Big-Data-to-Decisions Intelligent Systems*, 2015, Springer, Switzerland, [weblink](#)
- Austin, Greg *Cyber Policy in China*, Polity Press 2014: Cambridge UK, 200 pp
- Chung P, *Overcoming technical challenges in developing a global free-access legal information system for research - the WorldLII experience*, Verlag Alma Mater, Saarbrücken, 2014, ISBN 978-3-935009-68-3
- Green DG; Liu J; Abbass HA, *Dual Phase Evolution*, Springer 2014
- Joyce, Daniel and David Rolph, Matt Vitins and Judith Bannister, *Media Law: Cases, Materials and Commentary*, Second Edition (Oxford University Press, Forthcoming 2015)

Articles, Chapters and Conference Papers

1. Abbasi A, 2014, 'Link formation pattern during emergency response network dynamics', *Natural Hazards*, vol. 71, no. 3, pp. 1957 - 1969, <http://dx.doi.org/10.1007/s11069-013-0988-0>
2. Abbasi A, 2014, 'Understanding the evolutionary dynamics and adaptation of complex networks', in *2014 International Conference on Behavioral, Economic, and Socio-Cultural Computing (BESC)*, IEEE, presented at International Conference on Behavioral, Economic, and Socio-Cultural Computing (BESC 2014), Shanghai, China, 30 October - 1 November 2014
3. Abbasi A; Wigand RT; Hossain L, 2014, 'Measuring social capital through network analysis and its influence on individual performance', *Library and Information Science Research*, vol. 36, no. 1, pp. 66 - 73, <http://dx.doi.org/10.1016/j.lisr.2013.08.001>
4. Abbass HA, 2014, 'Calibrating independent component analysis with laplacian reference for real-time EEG artifact removal', in *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, Springer Verlag, pp. 68 - 75
5. Abbass HA; Tang J; Amin R; Ellejmi M; Kirby S, 2014, 'The computational air traffic control brain: Computational red teaming and big data for real-time seamless brain-traffic integration', *Journal of Air Traffic Control*, vol. 52, no. 2, pp. 10 - 17
6. Abbass HA; Tang J; Ellejmi M; Kirby S, 2014, 'Visual and auditory reaction time for air traffic controllers using quantitative electroencephalograph (QEEG) data', *Brain Informatics*, vol. 1, no. 1-4, pp. 39 - 45, <http://dx.doi.org/10.1007/s40708-014-0005-8>
7. Abdallah AFM; Essam DL; Sarker RA, 2014, 'Solving dynamic optimisation problem with variable dimensions', *Lecture Notes in Computer Science*, vol. 8886, pp. 1 - 12
8. Abdesselam M; Karim ANM; Emrul Kays HM; Sarker RA, 2014, 'Forecasting Demand: Development of a Fuzzy Growth Adjusted Holt-Winters Approach', *Advanced Materials Research*, vol. 903, pp. 402 - 407, <http://dx.doi.org/10.4028/www.scientific.net/AMR.903.402>
9. Abedin B; Babar A; Abbasi A, 2015, 'Characterization of the use of social media in natural disasters: A systematic review', in *Proceedings - 4th IEEE International Conference on Big Data and Cloud Computing, BDCloud 2014 with the 7th IEEE International Conference on Social Computing and Networking, SocialCom 2014 and the 4th*, Institute of Electrical and Electronics Engineers Inc., pp. 449 - 454, <http://dx.doi.org/10.1109/BDCloud.2014.17>
10. Ahmed M; Anwar A; MAHMOOD A; Shah Z; Maher MJ, 2015, 'An Investigation of Performance Analysis of Anomaly Detection Techniques for Big Data in SCADA Systems', *EAI Transactions on Industrial Networks and Intelligent Systems*
11. Ahmed M; Anwar A; MAHMOOD A; Shah Z; Maher MJ, 2015, 'An Investigation of Performance Analysis of Anomaly Detection Techniques for Big Data in SCADA Systems', *EAI Transactions on Industrial Networks and Intelligent Systems*
12. Ahmed M; MAHMOOD A, 2014, 'Clustering based semantic data summarization technique: A new approach', in *9th Conference on Industrial Electronics and Applications (ICIEA), 2014 IEEE*, IEEE, pp. 1780 - 1785, presented at 9th Conference on Industrial Electronics and Applications (ICIEA), 2014 IEEE, Hangzhou, China, 9 - 11 June 2014, <http://dx.doi.org/10.1109/ICIEA.2014.6931456>
13. Ahmed M; MAHMOOD A, 2014, 'Network traffic analysis based on collective anomaly detection', in *Proceedings of the 2014 9th IEEE Conference on Industrial Electronics and Applications*, IEEE, pp. 1141 - 1146, presented at IEEE Conference on Industrial Electronics and Applications (ICIEA), Hangzhou, China, 9 - 11 June 2014, <http://dx.doi.org/10.1109/ICIEA.2014.6931337>

14. Ahmed M; MAHMOOD A, 2015, 'Network Traffic Pattern Analysis using Improved Information Theoretic Co-clustering based Collective Anomaly Detection', SPRINGER, presented at 10th International Conference on Security and Privacy in Communication Networks, 23 - 26 September 2014
15. Ahmed M; Mahmood A; Hu J, 2014, 'Outlier Detection', in Khan Pathan A-S (ed.), *The State of the Art in Intrusion Prevention and Detection*, edn. First, CRC Press USA, Boca Raton, Fl., USA, pp. 3 - 22, <http://dx.doi.org/10.1201/b16390-3>
16. Ahmed M; MAHMOOD A; Maher MJ, 2015, 'A Novel Approach for Network Traffic Summarization', in *INFOSCALE 2014, LNICST 139*, Springer, pp. 51 - 60, presented at 5th International Conference on Scalable Information Systems, Seoul, South Korea, 25 - 26 September 2014
17. Ahmed M; MAHMOOD A; Maher MJ, 2015, 'An Efficient Approach for Complex Data Summarization Using Multiview Clustering', in *INFOSCALE 2014, LNICST 139*, SPRINGER, pp. 38 - 47, presented at 5th International Conference on Scalable Information Systems, 25 - 26 September 2014
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19. Ahmed M; Mahmood AN; Islam MR, 2015, 'A survey of anomaly detection techniques in financial domain', *Future Generation Computer Systems: the international journal of grid computing: theory, methods and applications*, <http://dx.doi.org/10.1016/j.future.2015.01.001>
20. Alam K; Ray T; Anavatti S, (ed.), 2014, 'Practical Application of an Evolutionary Algorithm for the Design and Construction of a Six-inch Submarine', in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation (CEC 2014)*, IEEE, pp. 2825 - 2832, presented at 2014 IEEE Congress on Evolutionary Computation (CEC), Beijing, China, 6 - 11 July 2014, <http://dx.doi.org/10.1109/CEC.2014.6900264>
21. Alam K; Ray T; Anavatti SG, 2014, 'A brief taxonomy of autonomous underwater vehicle design literature', *Ocean Engineering*, vol. 88, pp. 627 - 630, <http://dx.doi.org/10.1016/j.oceaneng.2014.04.027>
22. Alam K; Ray T; Anavatti SG, 2014, 'Design and construction of an autonomous underwater vehicle', *Neurocomputing*, vol. 142, pp. 16 - 29, <http://dx.doi.org/10.1016/j.neucom.2013.12.055>
23. Alghamdi WY; Wu H; Fei J; Kanhere SS, 2014, 'Randomised multipath routing for secure data collection', *IEEE ISSNIP 2014 - 2014 IEEE 9th International Conference on Intelligent Sensors, Sensor Networks and Information Processing, Conference Proceedings*, <http://dx.doi.org/10.1109/ISSNIP.2014.6827598>
24. Ali ST; Sivaraman V; Ostry D, 2014, 'Authentication of lossy data in body-sensor networks for cloud-based healthcare monitoring', *Future Generation Computer Systems: the international journal of grid computing: theory, methods and applications*, vol. 35, pp. 80 - 90, <http://dx.doi.org/10.1016/j.future.2013.09.007>
25. Ali ST; Sivaraman V; Ostry D, 2014, 'Eliminating Reconciliation Cost in Secret Key Generation for Body-Worn Health Monitoring Devices', *IEEE Transactions on Mobile Computing*, vol. 13, no. 12, pp. 2763 - 2776, <http://dx.doi.org/10.1109/TMC.2013.71>
26. Ali ST; Sivaraman V; Ostry D; Tsudik G; Jha S, 2014, 'Securing First-Hop Data Provenance for Bodyworn Devices Using Wireless Link Fingerprints', *IEEE Transactions on Information Forensics and Security*, vol. 9, no. 12, pp. 2193 - 2204, <http://dx.doi.org/10.1109/TIFS.2014.2357998>

27. Allahbakhsh M; Ignjatovic A, 2015, 'An Iterative Method for Calculating Robust Rating Scores', *IEEE Transactions on Parallel and Distributed Systems*, vol. 26, no. 2, pp. 340 - 350, <http://dx.doi.org/10.1109/TPDS.2013.215>
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