

Curriculum Vitae



Dr Angela Tan

Senior Lecturer

School of Science and Technology

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Education Qualifications

2012	PhD, Cognitive Systems Engineering, Nanyang Technological University
2007	M.Eng, Human Factors Engineering, Nanyang Technological University
2004	B.Eng (Hons) 1 st Class, Mechanical & Production Engineering with Design Specialisation, Nanyang Technological University

Academic and Professional Experience

2023 – Present	Senior Lecturer, School of Science and Technology, SUSS
2020 – 2022	Programme Director, Human Factors and Human Performance Programmes, DSO National Laboratories
2017 – 2020	Dy Head, Soldier System Integration Laboratory, Singapore Army
2008 – 2017	Dy Programme Director, Human Factors Engineering Programme, DSO National Laboratories
2006 – 2008	Research Associate, Centre for Human Factors and Ergonomics, Nanyang Technological University

Memberships and Professional Activities

2016 – Present	Chartered Ergonomist, Chartered Institute of Human Factors and Ergonomics
2022 – Present	Advisory Board Director, Human Factors & Ergonomics Society of Singapore
2018 – 2020	President, Human Factors & Ergonomics Society of Singapore
2005 – Present	Member, Human Factors & Ergonomics Society
2007 – Present	Member, F48 Technical Committee on Exoskeleton, ASTM International

Consultancy and Executive Experience

2022 – Present	Wyn Monde Pte Ltd
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Research Interests

- Human Systems Integration
- Human Trust in Artificial Intelligence
- Workplace Safety, Health and Wellness
- Affective Design

Honours and Awards

2018	Defence Technology Prize
2018	MINDEF PRIDE Award
2017	DSO KINETIC Award
2007	Flender Book Prize
2003	Lite-On Design Award

Selected Publications

- Seva, R.S., Tan, A.L.S., Tejero, L.M.S. & Salvacion, M.L.D.S (2023) [Multi-dimensional readiness assessment of medical devices](#), Theoretical Issues in Ergonomics Science, 24:2, 189-205
- Lee, K.H., Chua, K.W.L., Koh, D.S.M., Tan, A.L.S. (2018) [Team cognitive walkthrough: fusing creativity and effectiveness for a novel operation](#). In Bagnara, S., Tartaglia, R., Albolino, S., Alexander, T., Fujita, Y. (eds.) IEA 2018. AISC, vol. 824, pp. 117–126. Springer, Cham
- Soo J.K.T., Tan A.L.S., Ho A.S.Y. (2016) [Naturalistic Human-Robot Interaction Design for Control of Unmanned Ground Vehicles](#). Poster presentation at HCI International.
- Koh, D.S.M., Tee, H.G., Soh, B.K., Tan, A.L.S. (2015) [Tools for facilitating Critical Decision Method, during tacit knowledge elicitation](#), Proceedings of the International Conference on Naturalistic Decision Making, McLean, VA
- Tan, A. L. S. & Chia, A. (2014). Examining Training Differences for Intelligence Analysis. Proceedings of the 3rd South East Asian Network of Ergonomics Societies International Conference.
- Tan, A. L. S. (2011). [Use of the motivation-expectation space to communicate strategies in a joint cognitive system](#). Doctoral thesis, Nanyang Technological University, Singapore.
- Tan, A. L. S., Helander, M. G., & Soh, B. K. (2010). [Motivation-Expectation Space as a Representative Structure for Decision Strategies](#). Proceedings of the Human Factors and Ergonomics Society Annual Meeting, 54(4), 334–338.
- Tan, A. L. S., Helander, M., Choo, K. T. W., & Soh, B. K. (2010). [Cognitive task analysis for maritime collisions](#). In D. B. Kaber & G. Boy (Eds.), Advances in Cognitive Ergonomics. Bosa Roca, Fla: CRC Press.
- Zhou, F., Tan, A. L. S., & Jiao, J. (2008). [Emergency logistics using graph theory and abstraction hierarchy](#). Paper presented at the 4th IEEE International Conference on Management of Innovation and

Technology (ICMIT).

Yin S, Tan, A. L. S., & Helander M. (2008). [Proactive Process Control Monitoring using Trends](#).

Proceedings of the Human Factors and Ergonomics Society Annual Meeting.

Kow, Y. M., Tan, A. L. S., & Helander, M. G. (2007). [What stories inform us about the users?](#) In D. Harris (Ed.), Engineering psychology and cognitive ergonomics (Vol. 4562, pp. 89-97). Berlin: Springer.

Helander, M. G., & Tan, A. L. S. (2006). Critical decision method: Is it cognitive work analysis? Proceedings of the 16th World Congress on Ergonomics (pp. 584). Maastricht, Netherlands.

Tan, A. L. S., & Helander, M. G. (2006). [Applied Work Domain Analysis: Translating Knowledge to Representation](#). Proceedings of the Human Factors and Ergonomics Society Annual Meeting, 50(3), 510–514.

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