

## Curriculum Vitae



### **Dr Angela Tan**

Head, Human Factors in Safety & Workplace Safety and Health Programmes  
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 <sup>st</sup> 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

Her research focuses on Human Trust in Automation and Artificial Intelligence (AI), Technological Advances in Anthropometry, and Leveraging Anthropometry for Workplace Well-being. She explores how emerging technologies can enhance trust in AI, revolutionize human body measurement, and improve ergonomic design for safer, more comfortable work environments. Dr. Angela's interdisciplinary work bridges human factors and technology, advancing both academic knowledge and practical applications.

### 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

- Tan, A. L. S., Chui, Y.P. (2024). A Review of Competencies for Human Factors and Workplace Safety and Health. Proceedings of the 22<sup>nd</sup> Triennial Congress of the International Ergonomics Association, Jeju, Korea
- 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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