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*PhD in Computer Science*

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Prof Langerman's focus is on IT Management, Agility, DevOps and general topics in Software Engineering. He has many years of experience as an executive in large organisations where he filled positions like CIO, CTO, Head of Enterprise Architecture, Head of Strategy, Head of Software Development etc. He supervises Master's and Doctoral students and is also lecturing at a postgraduate level. Key to his research is building deep relationships with industry and use research to improve organisations and the societies they operate it in.

### Google Scholar:

<https://scholar.google.co.za/citations?user=qIUc5y4AAAAJ&hl=en>

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### **Publications (Last 5 years)**

- 2023 • Langerman, J.J. Joseph, N (2023). Information Systems Resilience: An African Banking Case Study, International Conference on Electrical, Computer and Energy Technologies (ICECET 2023), 16-17 November 2023, Cape Town-South Africa
- 2023 • Toy, T., Langerman, J.J. (2023). A Design Framework for a Blockchain-Based Open Market Platform of Enriched Card-Based Transactional Data for Big Data Analytics and Open Banking, Proceedings of the 12th International Conference on Data Science, Technology and Applications.
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- 2022 • Mukange, Tsumbedzo, and Josef Langerman. "The Alignment between DevOps and Business Outcomes." 2022 International Conference on Engineering and Emerging Technologies (ICEET). IEEE, 2022.
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- 2021 • Johan von Solms & Josef Langerman (2021) Digital technology adoption in a bank Treasury and performing a Digital Maturity Assessment, African Journal of Science, Technology, Innovation and Development, DOI: 10.1080/20421338.2020.1857519
- 2021 • von Solms, Johan; Langerman, Josef; Marnewick, Carl, Digital transformation in treasury, risk and finance: COVID-19 to accelerate establishment of smart analytical centres in these departments, Journal of Risk Management in Financial Institutions, Volume 14 / Number 4 / AUTUMN/FALL 2021, pp. 381-394(14)

- 2020 • Marnewick, C, Langerman J.J. (2020). DevOps and Organisational Performance: The Fallacy of Chasing Maturity. IEEE Software
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- 2020 • Johan von Solms and Josef Langerman (2020). A smart treasury fit for the 4<sup>th</sup> Industrial Revolution. 2nd International Conference on Finance, Economics, Management and IT Business' (FEMIB 2020).
- 2019 • Mahlomo Montigoe and Josef Langerman (2019). New Organisation Models that breaks silos in organisations to enable software delivery flow. 2019 International Conference on System Science and Engineering (ICSSE), Dong Hoi, Vietnam,