

Mini-Dissertation Titles - Masters in Technology and Innovation Management 2018 -2023



Year	Author	Supervisor	Degree	Title
2023	Malomane MT	Van der Lingen E Prof	MTIM	Investigating the entrepreneurial culture experienced by automation system integrators
2023	Khambule S	Letaba TP	MTIM	Technology integration: Management of internal technological transfer, diffusion and absorption across large mining companies
2023	Kana N	Letaba TP	MTIM	The reshaping of curriculum transformation to address the 21st century skill sets and employment prospects during the Fourth Industrial Revolution era: A case of the South Africa TVET colleges
2023	Burger E	Steyn H Prof	MTIM	Project Management maturity and its impact on perceived project management success: a case study
2023	Boshoff ET	Bekker MC Prof	MTIM	Project Management performance on IDP Projects at the Msukaligwa Local Municipality - a critical review
2023	Mthukwane CM	Letaba TP	MTIM	An effective mechanism for the involvement of technology suppliers within the organisational ecosystem for Technology Roadmap Development
2023	Ntshoe T	Ramashala P Dr	MTIM	Commercialization of technology for the modernization of diamond mining industry: A case of an OEM's product design and development stage for diamond recovery plant technologies
2023	Mbewe NB	Botha A Dr	MTIM	Collective leadership between the mining workforce and community - A case for transformational growth within the manganese mining sector
2023	Natuyamba SK	Botha A Dr	MTIM	Artificial Intelligence Leadership in the context of the Mining Industry
2023	Ndlovu TV	Botha A Dr	MTIM	Leading the leader in network operator organizations
2023	Dibate T	Pretorius MW Prof	MTIM	Are organisations digitally mature enough to obtain value from digital transformation? A case study in the Mining Industry
2023	Maphiri MJ	Pretorius MW Prof	MTIM	A framework to align technology with business strategies to integrate and create high-impact partner ecosystems in the banking industry
2023	De Wet SJ	Van der Lingen E Prof	MTIM	Influences on the Development of Entrepreneurial Creativity: A comparison between entrepreneurs within South Africa and Norway
2023	Oelofse I	Van der Lingen E Prof	MTIM	Incentives supporting innovation in managed care organisations
2023	Letsoalo RM	Walwyn DR Prof	MTIM	An exploratory study of rooftop solar and poverty alleviation
2023	Letswalo KL	Madikizela M Dr	MTIM	Development of a firm-level innovation capability assessment instrument appropriate for the South African context
2023	Gumede WS	Letaba TP Dr	MTIM	Developing a leapfrogging model for the African signalling systems to leapfrog to the level of the developed countries
2023	Subrayen F	Letaba TP Dr	MTIM	Developing a customised technology roadmapping in the 5G era: A focus on cyber-security
2023	Tifi TLA	Cloete L	MTIM	Needs to be done for the Fourth Industrial Revolution in South Africa?
2023	Mashamaite NT	Ouma J Prof	MTIM	Critical review of South Africa's regional innovation systems: Cases of Gauteng and Limpopo
2023	Zulu X	Ouma J Prof	MTIM	A review of policy instruments mixes for South Africa's Biotechnology Industry: A case study of the Biomanufacturing Industry Centre (BIDC)
2023	Madzivha RS	Pretorius MW Prof	MTIM	Identification and analysis of challenges brought by 4IR systems implementation at a Surface Iron Ore mine focusing on Autonomous Production Drills
2023	Maluleke TH	Pretorius MW Prof	MTIM	The preparedness, readiness and strategies of South African coal mines to efficiently implement fourth industrial revolution technology
2023	Ngwenya MK	Grobbelaar S Dr	MTIM	Analysing Characteristics of Industry Clusters to Aid the Establishment and Development of a South African Timber Industry Cluster
2023	Bisschoff RADP	Grobbelaar S Dr	MTIM	The development of a DDDM implementation framework for the South African mining industry
2023	Khabo L	Chan A Prof	MTIM	The ideal team network and leadership for facilitating knowledge transfer and promoting innovative behaviour
2023	Mntambo NB	Chan A Prof	MTIM	The effects of leadership styles on enabling team effectiveness for multiple team memberships
2023	Mataboge OL	Chikwanda H Prof	MTIM	An evaluation of knowledge management systems employed by coal miners in Mpumalanga, South Africa
2023	Otuokwu DN	Chikwanda H Prof	MTIM	Innovation for survivability, resilience, and competitive advantage during a crisis: The case for cross country transport Ltd in a Covid-19 pandemic
2022	Bonkolo S	Botha A Dr	MTIM	The application of Future-Thinking methods in the South African Telecommunications Environment for SDN/NFV Technology
2022	Venter ZWJ	Lalk J Dr	MTIM	Energy Planning: A Perspective on Systems Engineering and Machine Learning Integration
2022	Yende TB	Amadi- Echendu J Prof	MTIM	An Investigation into Negating Factors that affect Rolling Stock Maintenance in Passenger Railways of South Africa
2022	Thwala NC	Barnard T Dr	MTIM	Factors that contribute to failure of construction projects
2022	Rodrigues Jardim M	Chikwanda H Prof	MTIM	An evaluation of the Continuous Improvement efforts in the coal mining industry in South Africa: The case for The Theory of Constraints and Lean Thinking
2022	Mataboge CL	Chikwanda H Prof	MTIM	Not provided
2022	Matomela W	Ouma J Prof	MTIM	The Effectiveness of Science, Technology, and Innovation Policy Instruments for Promoting Inclusive Innovation in South Africa
2022	Nyamandi C	Benade S Dr	MTIM	Big Data as a driver of Technology and Innovation Strategy: A Case of An FMCG Firm in Africa
2022	Mubungani N	Ouma J Prof	MTIM	A comparative study on managing exploratory and exploitative innovation in software development teams: Innovation Ambidexterity in Redstor Ltd
2022	Maditse NK	Manyuchi AE	MTIM	An evaluation into the challenges and opportunities to evidence based STI policy making in South Africa
2022	Tifo E	Ouma J Prof	MTIM	Investigation into Systemic Barriers to Energy Technological Innovation in South Africa
2022	Moshweunyane DK	Pretorius MW Prof	MTIM	The exploitation of the Fourth Industrial Revolution technologies towards efficient spectrum management in South Africa
2022	Kente T	Pretorius MW Prof	MTIM	Patent Analysis and Methods Reveals the Technology Convergences of Industry 4.0: A Study of Inventions Protected in South Africa
2022	Ramorula GT	Van der Lingen E Prof	MTIM	The antecedents of organisational controls ready for corporate entrepreneurship for a supply chain of the future
2022	Jiba Z	De Klerk AM	MTIM	New Product Development in a Munitions Manufacturing Company in South Africa
2022	Molehe RP	Van der Lingen E Prof	MTIM	The Acceptance of Ultrafine spiral Technology by the Mineral Processing Industry
2021	Janse van Rensburg M	Van der Lingen E Prof	MTIM	The Project Manager's role in the South African built environment when utilising information modelling
2021	Monama MP	Van der Lingen E Prof	MTIM	An assessment of elements critical for corporate entrepreneurship at a South African water utility
2021	Masondo SNR	Jacobs J	MTIM	Developing a framework for the alignment of business and digital technology strategies: A focus on Government Insurance Companies

2021	Steynberg L	Erasmus L	MTIM	Blockchain technology adoption in outbound logistics for the Fourth Industrial Revolution
2021	Ndzendze S	Walwyn DR Prof	MTIM	Developing novelty feasibility frameworks to support investment decisions on Smart Electricity Distribution
2021	Sonopo TS	Pretorius MW Prof	MTIM	Assessing the critical success factors for the adoption of Industry 4.0: The case of glass manufacturing company in South Africa
2021	Mosweu RM	Chan A Prof	MTIM	Multiple Team Membership: the impact of task-switching on the individual's performance and learning within the South African petrochemical industry
2021	Sole LB	Chan A Prof	MTIM	Multiple Team Membership: the impact of task-switching in multi-team environment on invidual and team performance
2021	Meko XM	Naude R Mr	MTIM	Smart capex asset management model: power utilities case
2021	Dlamini NTT	Ouma J Prof	MTIM	Use of public procurement in promoting technological innovation in the construction industry in eSwatini
2021	Naidoo K	Chan A Prof	MTIM	An empirical study on the impact of virtual multiple team membership on individual task performance and the moderating role of collaborative tools
2021	Sathekge TL	Du Plessis M Mr	MTIM	The adoption of digital technology in South African Mines
2021	Sookha CM	Naude R Mr	MTIM	Adoption of robotic process automaton: a Transnet Engineering case study
2021	Hecther DS	Smuts H Prof	MTIM	Case study: Performing a knowledge audit within a South African Chemical Manufacturer
2021	Ndlovu DA	Chan A Prof	MTIM	The impact of inter- and intra organizational networks on individual innovative behaviour and team performance: an empirical case study
2021	Maja M	Letaba TP	MTIM	Towards data-driven technology roadmap for the bank of the future: exploring big data analysis to support technology roadmapping
2021	Mhlanga ZS	Ramashala P	MTIM	The impact on customer relationship management on after-sales technical service delivery. A perspective from the South African industrial manufacturing sector
2021	Mukundu KV	Smuts H Prof	MTIM	Implementation framework for data driven decision making in organisations
2021	Naicker SC	Du Plessis M Mr	MTIM	The stats of mobile asset automation in the South African coal mining industry
2021	Ndou TP	Chan A Prof	MTIM	The impact of intra-and inter organizational multiple team membership on learning and performance at individual and team level
2021	Moeketsi TC	Letaba TP	MTIM	Leapfrogging pathway for Fourth Industrual Revolution: a case of process innovation within an automotive subsidiary firm
2021	Burger JC	Walwyn DR Prof	MTIM	Multi-level perspective and policy experimentation: realising synergies between mining and agriculture
2021	Van der Meulen MA	Smuts H Prof	MTIM	Determination of the adoption of virtual team collaboration as a mode of knowledge transfer within innovation driven companies
2021	Reddy K	Chan A Prof	MTIM	An empirical study on the effects of leader behaviour and resilience on innovative work behaviour
2021	Naidoo S	Walwyn DR Prof	MTIM	A techno-economic assessment of the local production of polybutylene succinate in South Africa
2021	Jembe LS	Ramashala P	MTIM	Project owner's participation in project outcome: case of South African Police Service (SAPS) infrastructure projects
2021	Puoane KWE	Letaba TP	MTIM	A human resource strategy framework for managing industry 4.0 risk faced by the less skilled workforce in the manufacturing industry: a case of a state-owned company in South Africa
2021	Molaodi KK	Madikizela M	MTIM	Challenges of SMME's in University - based technology incubators in South Africa
2021	Badenhorst SJ	Botha A Dr	MTIM	Towards smart farming: Enabling food security and sustainability in smart cities
2021	Maphothoane LP	de Klerk AM	MTIM	The application of risk management in new product development by Lesotho's SME's in the IT sector
2021	Miya M	Pretorius MW Prof	MTIM	The inevitable automation of the processing plants in the mining industry: surviving the future in the Fourth Industrial Revolution
2021	Hall U	Van der Lingen E Prof	MTIM	The effect that organisational antecedents have on entrepreneurial orientation in a South African science council
2021	Chauke MV	Cloete L	MTIM	Rhetoric vs action: what is and what can be done about the fourth industrial revolution in South Africa
2021	Msimang N	De Klerk AM	MTIM	Risks in renewable energy projects in South Africa
2021	Van der Merwe GK	Pretorius MW Prof	MTIM	Factors that will impact the requirements of 4th Industrial revolution upgrade projets - A South African perspective
2021	Muzambi RT	De Klerk AM	MTIM	Risk management of a Haul Truck semi-automation project at a South African mine
2021	Makapela CM	Cloete L	MTIM	Digitilisation Barriers: a review within the South African construction industry
2021	Pillay S	Van der Lingen E Prof	MTIM	The role of collaborative networks in expediting technology transfer from public research organisations
2021	Zulu ALN	Pretorius MW Prof	MTIM	Technology implementation for a competetitive advantage within supply chain logistics: a study focused on a global logistics organisation
2021	Nyaweni MG	Pouris A Prof	MTIM	Bibliometric assessment of scientific research in Africa: policy and funding implications
2021	Marhanele RR	Pretorius MW Prof	MTIM	Impact of industry 4.0 on the capability of automation and control systems in selected South African mining companies
2021	Maphalala MB	Cloete L	MTIM	Possible disruptions from the integration of 4IR capabilities in the rendering of basic public services for historically disadvantaged communities: an evaluation of the Kwa-Thema township
2021	Barnard FH	Van der Lingen E Prof	MTIM	Software as a service adoption: a fuzzy approach to ranking the determinants
2021	Govender EA	Van der Lingen E Prof	MTIM	Collaboration with startups in industry and academia through innovation programmes
2021	Rabie M	Strauss A	MTIM	The relationship between advanced technological capabilities and competitive advantage in the heavy equipment manufacturing sector in the petrochemical and oil and gas industries
2021	Conradie JM	De Klerk AM	MTIM	Project risk management practices in engineering consultancies in Gauteng, South Africa
2021	Dladla TS	Jacobs J	MTIM	Developing a technology intelligence framework for the South African road authorities: a focus on linking value-adding technology to execution through roadmapping
2021	Niebuhr SW	De Klerk AM	MTIM	Case study of the development of a conveyor belt clamp
2021	Kistan K	De Klerk AM	MTIM	Framework for new product development in a research and development manufacturing environment
2021	Mokgosi M	Steyn JL	MTIM	Feasibility of packaging materials produced from wood, pulp and paper products as alternatives to single-use plastics
2020	Ramkirpal N	Peach R Ms	MTM	Using technology management to guide the journey to Realibility 4.0 in the manufacturing industry: a South African context using a case study of a food and beverage company
2020	Mphahlele S	Barnard T Dr	MTM	The role of team collaboration to increase IT project success
2020	Nchabeleng GM	Van Waveren CC Mr	MTM	The relationship between knowledge sharing practices and team innovation in agile software development approaches
2020	Raphuthi N	Visser JK Prof	MTM	Utilization of eMaintenance technologies in the South African petrochemical industry

2020	Daling WD	Naude R Mr	MTM	Application of process model-based digital twins in mining
2020	Mashishi S	Naude R Mr	MTM	The adoption of 5G mobile technology in South Africa to support industry 4.0
2020	Molebale JU	Blyth D	MTM	Employing systems engineering to direct asset management (AM), life-cycle management (LCM), and supply chain management (SCM) processes
2020	Naicker N	Chan A Prof	MTM	The impact of inter-organizational multiple project team mbemership on team performance and team learning: a case study at a lead pay TV operator in Africa
2020	Thoba BV	Chan A Prof	MTM	Open innovation barriers and mitigating solutions for organisations
2020	Phago ER	Letaba TP	MTM	The effectiveness of big fast results methodology and transformative innovation policy for leapfrogging into Fourth Industrial Revolution
2020	Malinga AL	Strauss A	MTM	Developing a technology roadmap toolkit for 4IR technology planning in defence. Case study: South African National Defence Force
2020	Naidoo P	Chan A Prof	MTM	The relationship between the strenght and types of knowledge transferred in a South African organisation
2020	Mashoko L	Strauss A	MTM	Technology roadmapping and the fourth Industrial Revolution: A case study of Aerospace SMME's in South Africa
2020	Matsepe NT	van der Lingen E Prof	MTM	Determinants of 4IR technology adoption in the South African financial sector
2020	Schwan A	van der Lingen E Prof	MTM	Mediating the conflicts between traditional resource controls and those required for effective corporate entrepreneurship in highly industrialised companies
2020	Khoza T	Manyuchi AE	MTM	The analysis of the science, technology and innovation policies for biotechnology leapfrogging: Cases of South Africa & Namibia
2020	Sithole BS	Van der Lingen E Prof	MTM	Factors influencing adoption and diffusion of digitisation in the mobile telecommunications industry
2020	Shabangu NM	Ouma J Prof	MTM	The evaluation of the implementation of energy provisions of South AFrica's 1996 White Paper on Science & Technology: case study of the role of ESKOM
2020	Gertzen WM	Van der Lingen E Prof	MTM	Project selection criteria for digital transformation
2020	Theron CD	Van der Lingen E Prof	MTM	Organisational and personal self-concept and their moderating relationships as determinants to entrepreneurial orientation
2019	Carvalho DMD	Pretorius MW Prof	MTM	A study into the adoption of new technology from foreign sources in the banking sector Angola
2019	Chetty R	Mashinini N	MTM	Analysis of quality tools and techniques to improve quality effectiveness and efficiency: A case of telecommunication call centre operators in South Africa
2019	Daraojimba CE	Grobbelaar S (Schalk) Mr	MTM	Determining whether the implementation of PMBOK principles leads to successful infrastructure project execution
2019	Hanzen SE	Botha A Dr	MTM	The future of information security management systems
2019	Kelepa MJ	Pretorius MW Prof	MTM	Studies on the alignment of Technology- and Business strategies: The adoption of Technology Management tools in the coal mining sector
2019	Khumalo BPP	Du Plessis M Mr	MTM	Analysis of the technology management framework at operational level and its alignment with the organisational level strategy of the business: Case study of South 32 mining operations in SA
2019	Kolisang NLG	van der Lingen E Prof	MTM	Analysis of Adoption of Diffusion of DTT, IPTV and OTT, commercial viability and impact on traditional Broadcasting ICTs Services and QoL in Sout Africa
2019	Letshabo TM	Botha A Dr	MTM	A technology transfer framework for Industry 4.0: introduction into the South African rail manufacturing industry
2019	Liddell LT	Naude R Mr	MTM	The Application of Block Chain Technology in Arms Trading Governance
2019	Makhotla N	Mugabe J Prof	MTM	Analysis of research collaborations between public inistitutions and private industry case studies in mineral processing and beneficiation industry
2019	Maphunye RM	Visser JK Prof	MTM	An evaluation of the implementation of new maintenance technologies in South Africa
2019	Mokgala HP	Chan A Prof	MTM	A Teams Approach to Idean Generation: An Analysis of individual-level factors and team-level factors on Creativity
2019	Mtsweni DSS	Botha A Dr	MTM	Future thinking and strategic thinking: Preparing organisations in broadcasting for tomorrow's business in the Fourth Industrial Revolution
2019	Mushaisano MI	Chan A Prof	MTM	Enabling service innovation in higher education institutions by means of leveraging knowledge management practices
2019	Nel J	Botha A Dr	MTM	Human-machine partnerships in Industry 4.0 - artificial intelligence to the advantage of chemical industry
2019	Nkosi PM	van der Lingen E Prof	MTM	An investigation of entrepreneurship orientation in the metal and engineering sector in achieving sustainable organisational performance
2019	Ntanzi M	Botha A Dr	MTM	Mediating and moderating factors for transferring knowledge to the project-based organisation
2019	Shobede NC	Chan A Prof	MTM	Factors that influence the Acceptance of E-learning in the workplace: Armscor Case Study
2019	Theron PF	Botha A Dr	MTM	Human Machine Partnerships in Industry 4.0 - Machine Ethics
2019	Van Besouw JG	Barnard T Dr	MTM	Smart project management information system for engineering and construction projects - emphasis on project reporting
2018	Gavhi T	Benade S Dr	MTM	Effectiveness of Engineering Change Management Process in Eskom Generation Plants
2018	Govender K	Botha A Dr	MTM	An Insight into the Technology Selection Strategy utilized in the South African Manufacturing Industry
2018	Maritz HC	Chan A Prof	MTM	The relationship between network profile of employees and technology transfer at individual level: A case of R&D employees working in Namibia
2018	Dinnanath S	Chen J	MTM	A preliminary customer data to strategic value creation framework: A study of South African Service organisation
2018	Masedi MJ	Grobbelaar S (Schalk) Mr	MTM	Challenges in implementing risk management in construction projects. As such construction risk management is essential to ensure the survival and growth of organisations
2018	Makgoga A	Lotz M Dr	MTM	Kimberly residential consumers willingness to pay for premium priced for green electricity
2018	Mekwa JOK	Lotz M Dr	MTM	Residential consumer's willingness to pay for a premium priced green electricityin Emalahleni (Witbank)
2018	Cruickshank MJ	Pretorius MW Prof	MTM	Multi-Generational Terhnological Substitution in the "New Space" Small Satellite Launch Vehicle
2018	Dennyschen EN	Pretorius MW Prof	MTM	A study on the alignment of technology management tools with strategic business capabilities and strategies
2018	Simelane KM	Pretorius MW Prof	MTM	A study on the alignment of technology and business strategies with the South African automotive industry: an industry 4.0 perspective
2018	Baloyi JR	Visser JK Prof	MTM	Analysis of the Impact of human factor and Safety management on (CNS) equipment maintenance
2018	Kenosi NR	van der Lingen E Prof	MTM	Assessment of technology trasfer between corporates and black owned SMMEs in an incubation: Case Study
2018	Heunis H	van Eck E Ms	MTM	A case study on the implementation of Earned Value Management in construction projects
2018	Lubbe BF	Visser JK Prof	MTM	Analysis of maintenance planning function deployment of a FMCG manufaturing firm in a South African environment