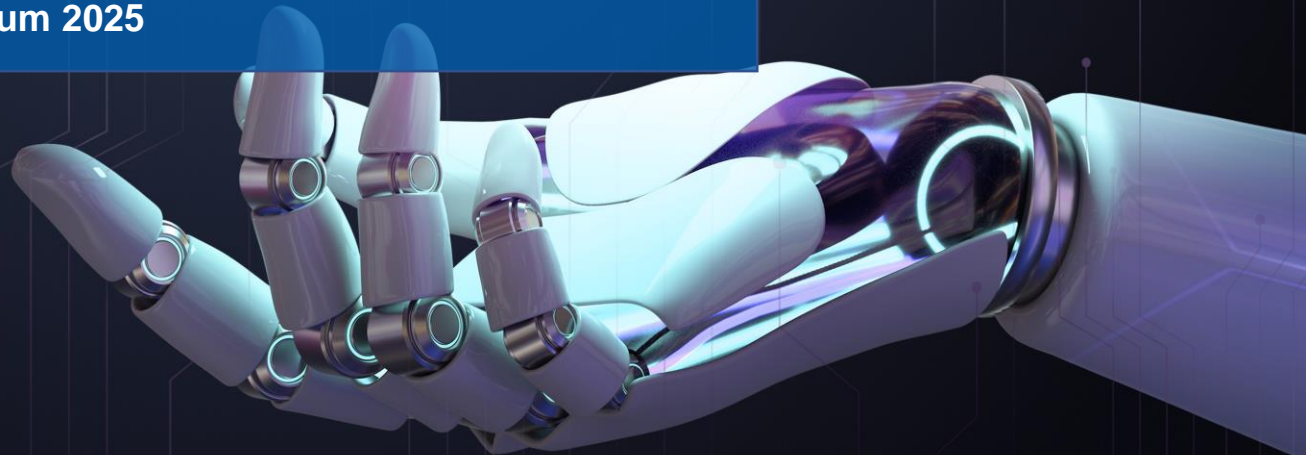


The use of AI in transforming Scholarly Communication Services & Leverage SDGs

Rosina Ramokgola
University of Pretoria

5th IFLA AI Symposium 2025



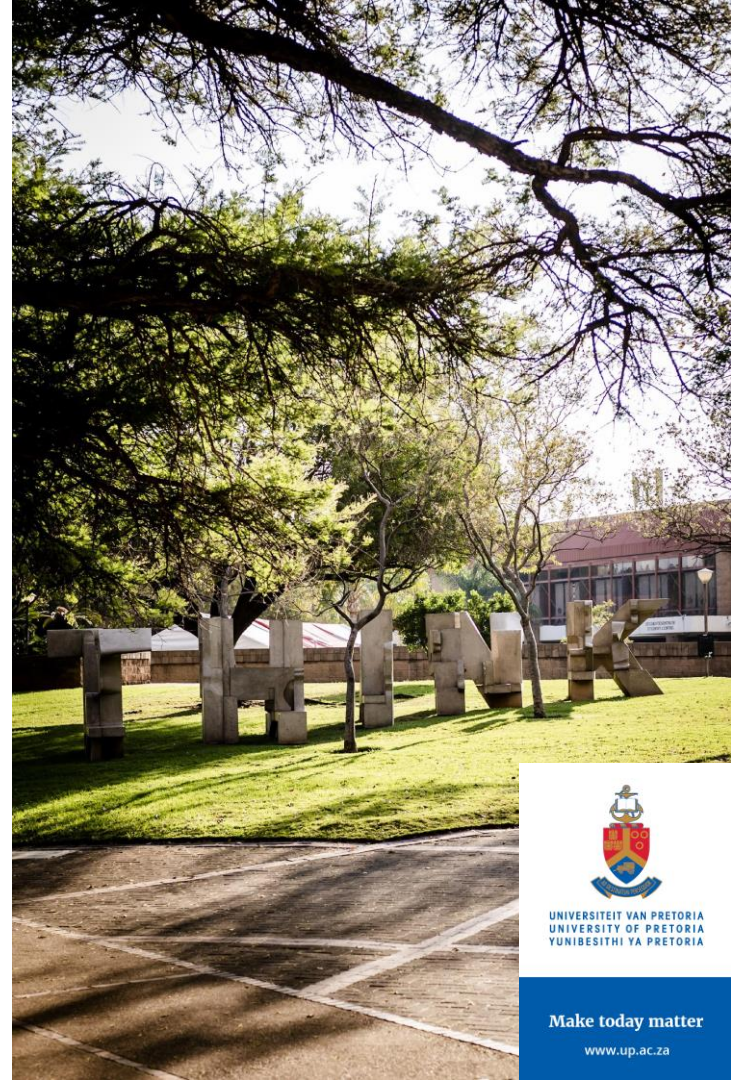
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Presentation Layout

- Introduction
- AI & Automation
- Scholarly communication services
- Transforming research outputs
- Repositories
- Sustainable Development Goals (SDGs)
- Conclusion



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Introduction

- Library as the centre of the University; core function is to support research, teaching and learning
 - Lecturers expect expert knowledge on research (ChatGPT & AI research tools)
- The DLS had to combat AI knowledge deficit with Digital Transformation Initiatives:
 - Automation: Automating workflows and repetitive tasks
 - Translation of abstracts into indigenous languages.

Scholarly Communication Landscape

OPEN  ACCESS

 Copyright



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Automation: Automating repetitive workflows

- In collaboration with the Department of Education Innovation
- Microsoft Power Automate:
- Automating repetitive reports:
 - Eg: Scival SDG reports

Translation of abstracts into indigenous languages on the UPSpace Institutional Repository

- In collaboration with Department of Computer Science and aligns closely with the goals of the decolonising science initiative
- Translating academic abstracts into indigenous languages promotes inclusivity and accessibility, ensuring equal access to knowledge for indigenous language speakers
- Pilot Project: Translating Thesis into Sepedi and IsiZulu

Sustainable Development Goals (SDGs)

- ❑ UN Agenda 2030
- ❑ Times Higher Education Impact
- ❑ Methodology (Research, Stewardship, Outreach & Teaching)
- ❑ Research data and research output should have SDGs
- ❑ Keywords



SUSTAINABLE DEVELOPMENT GOALS



Impact Rankings 2025

Rank ▲	Name ▼	Best scores by rank	Overall ▼
=36	University of Johannesburg 📍 South Africa		93.0
42	University of Pretoria 📍 South Africa		92.7
=77	University of Cape Town 📍 South Africa		90.4



Automation: Automating bibliometrics and repetitive workflows

Applying life-design counselling to young adults experiencing unmastered developmental tasks



Files

[Pollard_Applying_2024 \(5.69 MB\)](#)

Date

2024-10

Publisher

University of Pretoria

Abstract

A great number of people present with unresolved traumatic experiences and/or unmastered developmental tasks and it has been suggested (McLeod, 2018; Maree, 2021a) that problems during the developmental stages may have a negative influence on personality, thus exerting a significant psychological impact on individuals' career trajectory and their career adaptability. The resolution or reconstruction of these unmastered tasks into meaningful experiences was expected to contribute to enhanced career adaptability, psychological growth, and positive developmental change (Maree, 2021b). This study aimed to answer the primary research question, 'How does life-design counselling influence young adults' (between the ages of 17 and 29) mastery of unresolved developmental tasks and enable them to flourish in their career lives?'. A qualitative, mixed-methods case study research design was implemented and constituted identical pre- and post-intervention data-gathering phases as well as an adapted life-design counselling intervention which included the Career Interest Profile Version 7 (Maree, 2017a) and life-design intervention strategies (Savickas, 2015) such as structured and semi-structured interviews, career genograms, collages, and lifelines. Thematic analysis (Braun & Clarke, 2019) was applied to analyse the data along with the assistance of Atlas.ti (v23) software. Results demonstrated significant positive psychological change for the majority of intrapersonal, interpersonal, and occupational developmental tasks. Participants furthermore demonstrated increased application of metacognitive skills, increased awareness of their internal psychological characteristics and well-being, and they were able to identify the external factors which supported and influenced their psychological well-being and career trajectories post-intervention.

Description

Thesis (PhD (Educational Psychology))--University of Pretoria, 2024.

Keywords

UCTD, Sustainable Development Goals (SDGs), Psychosocial development, Career construction, Life-design counselling, Unmastered developmental tasks, Young adults

Sustainable Development Goals

SDG-03: Good health and well-being

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Figshare Record with SDGs

Radar-derived supercell thunderstorm database over the Gauteng and Mpumalanga provinces of South Africa from the warm seasons of 2010/2011 until 2019/2020

Cite

Download (128.3 kB)

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Edit as administrator

Dataset posted on 2023-09-05, 14:49 authored by [Christina Liesker](#)

This database is linked to the dissertation: 'Characteristics of warm season supercell thunderstorms over the Gauteng and Mpumalanga Provinces of South Africa'.

The database contains the full track information for 115 left-moving and 6 right-moving supercell thunderstorms that were manually identified using the South African Weather Service's Irene and Ermelo Doppler radar, during the warm seasons (September to February) of 2010/2011 until 2019/2020. Events were classified using both reflectivity features (hook echo, Bounded Weak Echo Region (BWER) and/or Weak Echo Region) and/or Doppler velocity features (rotational couplet). Also provided are details on the criteria used to classify those events.

The README is provided in the first tab of the Excel file and provides more details on the variables included in the database.

HISTORY

- 2023-09-05 - First online date, Posted date

RELATED MATERIALS

- URL - References <http://hdl.handle.net/2263/83956>

DEPARTMENT/UNIT

Geography, Geoinformatics and Meteorology

SUSTAINABLE DEVELOPMENT GOALS

- 13 Climate Action

USAGE METRICS

56

views

8

downloads

0

citations



CATEGORIES

- Meteorology
- Adverse weather events

KEYWORDS

Supercell

Severe thunderstorm

Highveld

Mesocyclone

Radar-derived database

Short-term climatology

Weather radar

South Africa

SDG 13 Climate action

LICENCE



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Conclusion

- Collaboration is key not in silo
- Resource optimization
- Improve efficiency and productivity
- AI – driver of change in Scholarly communication
- Ethical considerations

THANK YOU

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