

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

EDUCATION

DOCTORAL DEGREES

2012 **DTech (Computer Science and Data Processing)**
TUT, Pretoria, South Africa (15/08)

MASTER'S DEGREES

2018 **MBA (Business Administration)**
TUT, Pretoria, South Africa (24/08)

1999 **MSc (Computer Science)**
N.U.S.T., Bulawayo, Zimbabwe (16/10)

1992 **MEd (Licentiate (Mathematics))**
University of Jose Varona, Cuba (24/11)

BACHELOR'S DEGREES

1994 **BSc (Hon, Mathematics)**
University of Zimbabwe (05/01)

CERTIFICATES/DIPLOMAS

2019 **Managing and Leading People**
Wits Business School (21/11)

WORK EXPERIENCE

University Lecturing		
2021-ToDate	Vaal University of Technology	- Full Professor
2016-2021	Vaal University of Technology	- Associate Professor
2013-2015	Tshwane University of Technology	- Senior Lecturer
2010-2012	Tshwane University of Technology (PT)	- Lecturer
2002-2007	University of Botswana	- Lecturer
2000-2002	Zimbabwe Open University (PT)	- Lecturer
2000-2002	Midlands State University	- Lecturer

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

Customer Service

2008-2009 Ajilong Consulting, Canada (GSK) - IT Help Desk Analyst
2008 Atelka, Canada (Rogers) - IT Customer Service Agent

Teachers' College Lecturer

1996 –1999 Belvedere Teachers' College
1997 World Bank Project (as tutor for Internet) in Zimbabwe

Secondary School Teacher

1992-1995 Lord Malven Secondary School

LEADERSHIP EXPERIENCE

2023- MICT SETA 4IR research chair
Current
2024- Acting Head of Department (Computer Sciences, Faculty
current of Applied and Computer Sciences)
2013- Chairman of Departmental Research and Innovation
current Committee
2013-2015 Sectional Head in Computer Systems Engineering
Department
Acting Head of Department (ICT, Computer Systems
Engineering)
2013- Postgraduate Departmental Co-ordinator
current
2008-2009 IT Support Team Supervisor
2000-2002 Acting Department Chairperson

PROFESSIONAL SUMMARY

Teaching/Lecturing Experience – 30 years to date

Industrial Experience – 2 years

Teaching/Lecturing

- MEd Mathematics Education, BSc Mathematics, MSc Computer Science and DTech Computer Science & Data Processing with 20 years to date experience in teaching at secondary school, teachers' college and universities

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

- Taught teachers how to teach using appropriate teaching methods and supervised student teachers during teaching practise
- Designed, developed and delivered course programs at university level
- Supported students through a advisory role
- Assessed students' coursework, set and marked examinations
- Delivered lectures, seminars and tutorials
- Supervised students' research activities and industrial internships
- Conducted student admissions, induction programmes and involvement in committees and boards
- Experience in development of undergraduate programs e.g.in 2000 we developed Computer Science Program at Midlands State University in Zimbabwe and 2002 we designed networking course with practical at the University of Botswana.

Research

- Undertook personal research projects and actively contributing to the institution's research profile
- Represented the institutions and contributed to professional conferences and seminars
- Conducted research, wrote and prepared research findings for publication
- Undertook funded research projects

Information Technology

- Use of Word processing software e.g MS Word, Spreadsheet software e.g MS Excel, Presentation software e.g. Power Point, Database software e.g Access, Programming languages e.g. C++, Matlab and Java, website development languages e.g. HTML, Dreamweaver
- Installation and configuration of network components e.g. Cisco Catalyst 2960 Series Switches, 3com hubs, cable configuration etc
- Designing a network
- Utilized on-line course software e.g. WebCT
- mentoring and improving the efficiency of computer users in the organization
- providing answers to computer users' problems
- supplying training and feedback to users to lessen the occurrence of future problems
- troubleshooting difficult or unusual situations
- suggesting workflow improvements to management
- Experienced in supporting internal and external users
- Supported GSK users around the world (external users) (Europe, North America, Asia and Australasia, Southeast Asia and Africa) through Tele-IT Customer Service (Telephone, Sametime, Remote Assistance, Chat) and internal users through face-to-face Customer Service within the company.
- GSK a company that employs around 99 000 people in over 100 countries

Private Bag X021
 Andries Potgieter Blvd
 Vanderbijlpark, 1911
 South Africa

Prof. Tranos Zuva
 ORCID iD: 0000-0001-9579-3899
 IEEE: 94058552
 IITPSA: Z061654
 ResearcherID: Q-2252-2016

cell: +27-787-213319
 Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

LECTURING EXPERIENCE

COURSEWORK TAUGHT:

AIRMY4A Research Methodology for IT, 2020 ASART4A Artificial Intelligence IV, 2016-2019 AIPRJ4B Research Project IV, 2016-2019 CSI272 Networks, 180 students, 2003/4 CSI272 Networks, 190 students, 2005/2006 CSI461 Network Management, 60 students, 2005/6 CS213 Operating Systems, 2000/1/2 CS425 Simulation, 2000/1 CS312 Networking, 2000/2 CSI403 (Hons) Research Database, 2001 Real Analysis 2000/1/2 Quantitative Methods, 1999/2000 Computer Science (Secondary School level) SSF11AF A* Certification, 2010 Maths Computer Science DPC201T Digital Process Control, 2011	AIIAY4A Advanced Information Technology Auditing Management IV, 2016-2019 Strategic Information Systems IV, 2016-2019 CSI422 Operations Research, 12 students, 2003/4 CSI461 Network Management, 60 students, 2003/4 CSI261 Machine Organization, 160 students, 2003/4 CSI272 Networks, 190 students, 2005/2006 CS324 Software Engineering, 2000/1 MAT215 Discrete Mathematics, 2000 CSI405 (Hons) Research Artificial Intelligence, 2000 Mathematics (Secondary School Level), 1995 Physical Education (Secondary School Level) OSY431T Advanced Operating Systems, 2010 AIT401T Artificial Intelligence, 2010 ITU401T Information Security IV, 2010 HWD401T Hardware Design IV, 2011 SSF24AT System Software, 2011
---	---

STUDENT PROJECT/RESEARCH SUPERVISION

CSI403 (At least five per year)
 Supervising MSc & DTech students

CSI405 (At least five per year)

TITLES	NAME OF STUDENT	YEAR OF COMPLETION
MASTERS STUDENTS		
Optimization Of Bimodal Biometrics System For Access Control Authentication	Omobayo Ayokunle Esan (Masters) (Male)	Graduated (2014)
Road Detection Systems Using Filters and Concurrency Techniques with Application to Autonomous Robots	Olusanya Yinka Agunbiade (Masters)(Male)	Graduated (2015d)
Predicting road traffic collisions using mobile technology	Willem Christoffel Grobler (Masters)(Male: South African)	Graduated (2014)
A new gateway location protocol for community mesh networks	Giresse Komba Mukadi (Masters)(Male)	Graduated (2016d)

Private Bag X021
 Andries Potgieter Blvd
 Vanderbijlpark, 1911
 South Africa

Prof. Tranos Zuva
 ORCID iD: 0000-0001-9579-3899
 IEEE: 94058552
 IITPSA: Z061654
 ResearcherID: Q-2252-2016

cell: +27-787-213319
 Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

Enabling internet connectivity via television set-top-boxes over whitespaces in rural areas	F.E Ntuli (Masters)(Female: South African)	Graduated (2017)
Nonintrusive Multimodal Biometric Authentication Scheme for Electronic-Assessments	Ojo Samuel Olusegun (Masters) (Male)	Graduated (2017)
Context-aware group recommender system for tourists	Mbaya Wa Mbaya (Male)	Graduated (2017)
Holistic Diversity in Recommender Systems for Mobile Users	Metla Johnson Sebatso (Male)	Graduated (2017)
Quality of Service on TV Set Top Box accessing TVWS on cognitive radio based wireless network	A.S Makgamatha (Masters) (Male: South African)	Graduated (2018)
Design of online vision assistance intelligent robot for neutron radiography detector system	Evens Tebogo Moraba (Masters) (Male: South African)	Graduated (2021)
Malware Analysis and Detection in Enterprise Systems	T Mokoena (Masters)(Male: South African)	Graduated (2018)
Facial and Keystroke Biometric Recognition for Computer Based Assessments	Temitope Oluwafunmilayo Adetunji	Graduated (2021)
Bimodal biometric for user authentication on mobile devices	Lerato Esau Masupha (Masters) (Male)	Graduated (2017)
Recommender System for Mobile Subscriber Provisioning	Elias Mbongeni Sibanda (Masters) (Male)	Graduated (2018)
Context aware proactive recommender system for tourists	Ebunoluwa Ashley-Dejo (Masters) (Female)	Graduated (2017d)
Users' perceptions on security of mobile computing for adoption of e-applications in South Africa	Fhatuwani Vivian Mapande (Masters) (Female)	Graduated (2018)
Factors that influence the adoption of electronic patient's records management systems in South Africa	Irene Avhaphani Popela (Masters) (Female)	Graduated (2020)
Framework for Adoption of Information and Communication Technology Security Culture in SMMEs in Gauteng Province in South Africa	MA Mokwetli (Masters) (Male)	Graduated (2019)

Private Bag X021
 Andries Potgieter Blvd
 Vanderbijlpark, 1911
 South Africa

Prof. Tranos Zuva
 ORCID iD: 0000-0001-9579-3899
 IEEE: 94058552
 IITPSA: Z061654
 ResearcherID: Q-2252-2016

cell: +27-787-213319
 Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

Prediction of traffic flow in cloud computing at a service provider	Prince Sekwatlakwatla (Masters) (Male)	Graduated (2019)
Visual simultaneous localization and mapping in a noisy static environment	JK Makhubela (Masters) (Male)	Graduated (2019)
A conceptual framework for crowdsourcing in education	Thulani W. Shongwe (Masters) (Male)	Graduated (2018)
Virtualization performance in private cloud computing	Khathutshelo Nicholas Thovheyi (Masters) (Male)	Graduated (2020)
Assessment of e-learning readiness in South African schools	Ditlalane Irene Kolo (Masters) (Female)	Graduated (2019)
Decision support framework for the adoption of software development methodologies	Lynette Simelane (Masters) (Female)	Graduated (2019)
Educational data mining to improve learner performance in Gauteng primary schools	Khokhoni Innocentia Mpho Ramaphosa (Masters) (Female)	Graduated (2020)
Adoption of mobile learning at the university of technology in South Africa	Hlatshwayo M.C. (Masters) (Female)	Graduated (2020)
Virtual Group Movie Recommendation System Using Social Network Information	Lefats'e Manamolela (Masters) (Male)	Graduated (2020)
Framework for aligning information systems with business strategy in small medium enterprises in Gauteng, South Africa	Rethabile Charlotte Kale (Masters) Female	Graduated (2021)
A Mobile Proximity Job Employment Recommender System	Motebang Daniel Mpela (Masters) Male	Graduated (2021)
Technology for Teaching and Learning: Measuring the Levels of Integration of Information Communication Technologies in Gauteng public schooling institutions with teachers' perceptions.	Freddy Chireka (Masters) Male	Graduated 2021
Impact of agile development methodology use on project success in South African banking sector	Makoena Moloto (Masters) Female	Graduated 2022
Proactive university library book recommender system	Tadesse Zewdu Mekonnen (Masters) Male	Graduated 2021

Private Bag X021
 Andries Potgieter Blvd
 Vanderbijlpark, 1911
 South Africa

Prof. Tranos Zuva
 ORCID iD: 0000-0001-9579-3899
 IEEE: 94058552
 IITPSA: Z061654
 ResearcherID: Q-2252-2016

cell: +27-787-213319
 Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

Mobile crowdsourcing in crop production for farmers in rural areas of the South Kivu (DRC)	Kahasha Iranga Emmanuella (Masters) Female	Graduated 2021
Asset tracking, monitoring and recovery system based on hybrid radio frequency identification and global positioning system technologies	Itumeleng Olebogeng Matshego (Masters) Male	Graduated 2021
Measuring Success of Information System in Small and Medium Enterprises in Gauteng	Lungile Willie (Masters) Male	Graduated 2021
Acceptance of biometric authentication security technology on mobile devices	William Ratjeana Malatji (Masters) Male	Graduated 2022
Predicting Customer Churn in Telecoms Service Providers: A Case Study in South Africa	Gireen Naidu (Masters) Male	Graduated 2023
Consumer readiness for adoption of iot-smart homes (cra-iot-sh) in Gauteng South Africa	Bryan David Julies (Masters) Male	Graduated 2023
The factors that influence the users' adoption and acceptance of cloud computing at University of Technology in South Africa	Manche Aloycia Lieta (Masters) Female	Graduated 2023
Diffusion innovation, adoption, and acceptance of a recommender systems in higher education	Ntsako Morgen Hlungwane (Masters) Male	Graduated 2023
Readiness for adoption of ERP system in local government in South Africa - Gauteng case study	Thando Dube (Masters) Female	Graduated 2023
Measuring the maturity of Agile Architecture in State Owned Organisations in Gauteng, South Africa - Case Study	Tumisang Akinpelu (Masters) Female	Graduated 2023
Phishing Emails Identification	Richard Hlalele (Masters) Male	Graduated 2023
An analysis of readiness for the adoption of augmented and virtual reality in the South African schooling syste	Nellylyn Moyo (Masters) Female	Completed 2023
DOCTORAL STUDENTS		
An intelligent multi-provider service composition for ubiquitous healthcare service provisioning	Olaifa Moses O. (DTech) (Male)	Graduated (2018)

Private Bag X021
 Andries Potgieter Blvd
 Vanderbijlpark, 1911
 South Africa

Prof. Tranos Zuva
 ORCID iD: 0000-0001-9579-3899
 IEEE: 94058552
 IITPSA: Z061654
 ResearcherID: Q-2252-2016

cell: +27-787-213319
 Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

Simultaneous Localization and Mapping for Autonomous Robot Navigation in a Dynamic Noisy Environment	Agunbiade Olusanya Yinka (DTech) (male)	Graduated (2020)
Development of e-government Diffusion Assessment Tool for Service Delivery in South Africa's Municipalities: Task-Technology-fit Approach	Mkhonto Mkhonto PhD (Male)	Graduated (2021)
A BisoNet Model for Serendipitous Research Paper Recommender Systems	Maake Benard Magara DTech (Male)	Graduated (2021)
A Model for the Adoption of Mobile Farming Platforms (MFPs) by Smallholder Farmers in Zimbabwe.	Fine Masimba DTech (Male)	Graduated (2022)
A Framework of the Adoption of Hackathon for Teaching and Learning of Computer Programming	Oyetade Kayode Emmanuel PhD (Male)	Graduated (2022)
A Model to Measure the E-learning System Success at a University of Technology in South Africa	Madute Elias Rankapola DTech (Male)	Graduated 2023
Factors that influence the effective use of big data and analytics algorithms in public health cares: Case of a Gauteng Based Health care	Irene Popela PhD (Female)	2024
Diffusion, adoption and acceptance of e-learning technology during a pandemic: South African case study	Ditlalane Irene Kolo PhD (Female)	2024
Investigation into users' perceptions and behaviours in disclosure of personal data for the interactive web design	William Ratjeana Malatji PhD (Male)	2024
Adaptive social media recommender systems for heterogeneous users	Elias Sibanda PhD (Male)	2024
POSTDOCTORAL STUDENTS		
Congestion Control and Priority scheduling in VANET	Etienne Feukeu (Postdoctoral Fellow)	2017-2018
Cloud based cross-platform integrated discovery and composition of web services for optimized composition system performance	Olaifa Moses (Postdoctoral Fellow)	2018-to-2020 2023-todate

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

A Framework of the Adoption of Hackathon for Teaching and Learning of Computer Programming	Oyetade Kayode Emmanuel (Postdoctoral Fellow)	2023-todate
--	---	-------------

STUDENT FUNDING

Lungile Willie (CSIR)	R100 000.00 per year
Irene Avhaphani Popela (NRF)	R100 000.00 per year
Thulani W. Shongwe (NRF)	R120 000.00 per year
Ditlalanane Irene Kolo (NRF)	R100 000.00 per year
Nine Postgraduate Students (MICTSETA)	R 90 000.00 per year each (R810 000.00)
24 Undergraduate Students (MICT SETA)	R 90 000.00 per student (2 160 000.00)

STUDENT INDUSTRIAL ATTACHMENT SUPERVISION

CSI352 Industrial Attachment

RESEARCH AND PUBLICATIONS

Some of the publications can be found at:

https://www.researchgate.net/profile/Tranos_Zuva/publications

Citations over five hundred (960) according to researchgate

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

Citations over One Thousand five hundred (1 500) according to google scholar

h-index 20 18

i10-index 37 33 .

<https://www.scopus.com/>

Documents 125

h-index 10

Africa Scientist and University Rankings 2025

https://www.adscientificindex.com/citation-ranking/?con=Africa&tit=&tit_sub=&country_code=za&q=Vaal+university+of+technology

Private Bag X021
 Andries Potgieter Blvd
 Vanderbijlpark, 1911
 South Africa

Prof. Tranos Zuva
 ORCID iD: 0000-0001-9579-3899
 IEEE: 94058552
 IITPSA: Z061654
 ResearcherID: Q-2252-2016

cell: +27-787-213319
 Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

Total 1 scientist List without CERN, Statistical Data etc. Sort by last 6 years H Index

AD Scientific Index - Africa World Scientists Rankings - 2024							H INDEX			I10 INDEX			CITATION			
University / Institution	Country	Region	World	Name <i>i</i>	Country	University / Institution	Subject	Total	Last 6 year	Last 6 year/total	Total	Last 6 year	Last 6 year/total	Total	Last 6 year	Last 6 year/total
10	2,510	8,086	473,751	 Tranos Zuva	 South Africa	 Vaal University of Technology	Engineering & Technology / Computer Science Recommender Systems Image Processing Data Mining	19	17	0.895	37	32	0.865	1,501	1,151	0.767

Research Interests

- Mobile Computing
- Computer Vision
- Recommender Systems
- Data mining
- Information Systems

Research Work Completed

- Computer Technology Diffusion Project: An Analysis of the Socio-technical Determinants of Computer Technology Diffusion in Botswana. A research project with Dr Ojo as the Principal Investigator and Mrs B. Gopolang, Mr. T. Zuva, Mrs D Garg (all from Department of Computer Science), Prof A.A. Alao (Careers & Counseling Centre) and Dr. N. Forcheh (Statistics) as co-researchers. The primary aim of this research project is to determine what social and technical factors drive the diffusion of Computer Technology in Botswana, within the context of Botswana. It is expected that the outcome of the research will provide baseline database for informed Computer technology diffusion in the country. The Faculty of Science, University of Botswana, funded the project. Botswana Government Computer Bureau funded Research Project 2005.
- Integrated Healthcare Information Service through Mobile technology in Botswana (IHISM). A research project with Prof Henry Nyongesa as the Principal Investigator and all members of Department of Computer Science. Microsoft funded Research Project 2006 (\$1.2 million, Microsoft (USA) Research Grant).
- Image Content in Shopping Recommender System for Mobile Users (D-Tech Research Area). 2010
http://www.google.co.za/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0CB8QFjAAahUKEwj7hZH_1I_HAhXH8RQKHx6tCOs&url=http%3A%2F%2Fencore.tut.ac.za%2Fiii%2Fepro%2Fapp%3Fid%3D7039086437163407%26itemId%3D1000514%26lang%3Deng%26service%3Dblob%26suite%3Ddef&ei=nM_AVfvHGMfjU_7aotgO&usq=AFQjCNGa2zgYQzDQUGVQsbWEuHjvPKhc5Q&bvm=bv.99261572,d.ZGU

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

- Routing of solid waste collection vehicles for urban area (MSc Research). 1999
https://books.google.co.za/books/about/Routing_of_solid_waste_collection_vehicle.html?id=WMPrlwEACAAJ&redir_esc=y
- *Congestion Control and Priority scheduling in VANET (NRF funded through the postdoctoral fellow: Etienne Feukeu under my supervision)*

Research Aims and Objectives: The problem is to reduce the risk of accidents on public roads. This can be achieved if the mobiles involved can intercommunicate by exchanging precious messages related to road state information. This communication can only be successful if an effective method and technique for congestion management, flow control and priority data scheduling is implemented. The aim of this work is to propose congestion management and priority data scheduling through algorithms development that will improve the network efficiency in a Vehicular Network (VN) IEEE 802.11p. During this study, the fast changing environment, current specific message reception density, geographical state position and speed of current peer transmitters will be considered. The modeling of this environment will be developed in order to control and optimize the network environment which in turn will improve the throughput, quality of service and the overall efficiency of the vehicular network. In order to achieve the goal, the following sub-problems need to be attended to. NRF funded project

- Collaboration with CSIR research group (3D fingerprint) 2015-2016
- Collaboration with CSIR in supervision of postgraduate students 2013-2018.

Research Work in Progress

VUT funded research project 2020-2021. **Title:** Modelling of SARS-COV 2 epidemiology and its variants using Machine learning techniques, geoeidemiology, nanobiotechnology to maximize the solution for pandemics. **Aim:** Comprehensive modelling key epidemiologic and clinical aspects of COVID-19 (epidemiologic prognosis of the epidemic spreading and immune-computing, respectively) based on modern and sophisticated methods which will allow achieving the most effective solutions for the pandemic such as:

- epidemiologic prognosis of the epidemic spreading, prediction of the beginning of the secondary and tertiary waves of the pandemic.
- statistical and mathematical prediction modelling the COVID-19 mortality.
- Immuno computing for the complex evaluation of immunity, prediction of severe disease, a risk of occurring severe forms of the infection; the output from immune computing will be considered as personalized medicine.

Chapters in books

Zuva T., Zuva K. (2021) Virtual Group Movie Recommendation System Using Social Network Information. In: Bindhu V., Tavares J.M.R.S., Boulogeorgos AA.A., Vuppapapati C. (eds) International Conference on Communication, Computing and Electronics Systems. Lecture Notes in Electrical Engineering, vol 733. Springer, Singapore. https://doi.org/10.1007/978-981-33-4909-4_24, ISSN: 1876-1100, pp 325-336

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

William Ratjeana Malatji, Tranos Zuva and Rene Van Eck (2020), Acceptance of biometric authentication security technology on mobile devices, 2nd International Conference on Communication, Computing and Electronics Systems | (ICCCES 2020) in Springer - Lecture Notes in Electrical Engineering Series ISSN: 1876-1100, pp 1-12

Makoena Moloto, Anneke Harmse and Tranos Zuva (2020), Impact of agile methodology use on project success in South African Banking sector, 2nd International Conference on Communication, Computing and Electronics Systems | (ICCCES 2020) in Springer - Lecture Notes in Electrical Engineering Series ISSN: 1876-1100, pp.1-14

BM Maake, SO Ojo, T Zuva (2019), A Survey on Data Mining Techniques in Research Paper Recommender Systems (Chapter 6), In: Research Data Access and Management in Modern Libraries, IGI Global, ISBN 978-1-5225-8437- 7, pp. 119-143

BM Maake, SO Ojo, T Zuva (2019), Information Processing in Research Paper Recommender System Classes (Chapter 5), In: Research Data Access and Management in Modern Libraries, IGI Global, ISBN 978-1-5225-8437- 7, pp. 90-118

Balogun A.M., Zuva T. (2017) Overview of Performance Evaluation of Keyword Search Utilities in Forensic/E-Discovery Software. In: Wang G., Atiquzzaman M., Yan Z., Choo KK. (eds) Security, Privacy, and Anonymity in Computation, Communication, and Storage. SpaCCS 2017. Lecture Notes in Computer Science, vol 10658. Springer, Cham, Print ISBN: 978-3-319-72394-5, pp 826-836.

Zuva T., Kwuimi R. (2017) Comprehensive Diversity in Recommender Systems. In: Wang G., Atiquzzaman M., Yan Z., Choo KK. (eds) Security, Privacy, and Anonymity in Computation, Communication, and Storage. SpaCCS 2017. Lecture Notes in Computer Science, vol 10656. Springer, Cham, Print ISBN: 978-3-319-72388-4, pp 571-583.

Balogun A.M., Zuva T. (2018) Towards the Adoption of Software Engineering Principles for Assessing and Ensuring the Reliability of Digital Forensic Tools. In: Silhavy R., Silhavy P., Prokopova Z. (eds) Cybernetics Approaches in Intelligent Systems. CoMeSySo 2017. Advances in Intelligent Systems and Computing, vol 661. Springer, Cham, Online ISBN 978-3-319-67618-0/ Print ISBN 978-3-319-67617-3, pp. 271-282. https://link.springer.com/chapter/10.1007/978-3-319-67618-0_25

Moses Olaiifa, Sunday Ojo, Tranos Zuva (2016) An Adaptive Multi Agent Service Discovery for Peer to Peer Cloud Services, Springer Book “Chapter Emerging Trends and Advanced Technologies for Computational Intelligence”, eBook ISBN: 978-3-319-33353-3, Hardcover ISBN: 978-3-319-33351-9, Volume 647, Series ISSN: 1860-949X, pp 147-163.

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

Tranos Zuva (2004), "Information Management", in Adult Learning Education Module, Research and Development Unit, University of Botswana (Publishers), Chapter 7, ISBN: 99913-949-1-0, pp 68-113.

Linda Pagli, Giuseppe Prencipe, Tranos Zuva (2004), Distributed Computation for Swapping a Failing Edge: Lecture Notes in Computer Science Vol.3326, Springer Verlag 2004, ISBN 0302-9743, pp28-39 (Impact Factor: 0.302)

P. Flocchini, L. Pagli, G. Prencipe, N. Santoro, P. Widmayer, T. Zuva (2004), Computing All the Best Swap Edges Distributively: Lecture Notes in Computer Science Volume 3544/2005 Springer-Verlag GmbH ISBN 0302-9743, pp. 154-168 (Impact Factor: 0.302)

Edited Book

OJO S.O., Ige J.A, Mogotlhwane T, Ojedokun A.A., Garg D, Mapoka K, Anderson G, Zuva T. (2003): *Computing and Information Skills Fundamentals I*. Bay Publishers, Gaborone. ISBN 99912-949-1-0

Refereed Journals Papers

Kayode Oyetade, Anneke Harmse, Tranos Zuva. (2024), Evaluating students' willingness to use digital technologies, International Journal of Education and Practice 2024 Vol. 12, No. 3, pp. 1027-1039 ISSN(e): 2310-3868 ISSN(p): 2311-6897 DOI: 10.18488/61.v12i3.3820

Kayode Oyetade, Anneke Harmse, Tranos Zuva. (2024), Review of hackathon adoption factors in education, International Journal of Research in Business and Social Science (2147-4478), 13(2) pp. 324-335, DOI: <https://doi.org/10.20525/ijrbs.v13i2.3143> ISSN 2147- 4478

Oyetade, K., Zuva, T. and Harmse, A. (2024) 'Evaluation of the impact of hackathons in education', Cogent Education, 11(1). doi: 10.1080/2331186X.2024.2392420.

Oyetade, Kayode and Harmse, Anneke and Zuva, Tranos, Determinants of Students' Use of e-Learning Information and Communication Technologies (December 5, 2023). OIDA International Journal of Sustainable Development, Vol. 16, No. 11, pp. 33-46, 2023, Available at SSRN: <https://ssrn.com/abstract=4701594>, ISSN 1923-6654 (print), ISSN 1923-6662 (Online).

Rankapola, M., & Zuva, T. (2023). Developing The E-Learning System Success Model: A Developing Country Perspective. Journal of Higher Education Theory and Practice, 23(19). <https://doi.org/10.33423/jhetp.v23i19.6705>, pp. 89-99.

K Oyetade, A Harmse, T Zuva (2023), Examining the Factors Influencing Students' Satisfaction with Hackathon for IT Projects, International Journal of Emerging Technologies in Learning (iJET) 18 (22), 24-37, eISSN: 1863-0383, DOI: 10.3991/ijet.v18i22.42691 <https://online-journals.org/index.php/i-jet/article/view/42691>

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

J Zuva, T Zuva, P Chikuvadze (2023), Interrogating organisational deviance through a corporate governance lens: Business Excellence & Management 13 (3) 33-43, ISSN: 2248-1354 (PRINT) / 2668-9219 (ONLINE), DOI: 10.24818/beman/2023.13.3-03

K Oyetade, A Harmse, T Zuva (2023), Evaluating student satisfaction with online hackathon for IT projects, Eurasia Journal of Mathematics, Science and Technology Education 19 (10), 23-38, ISSN:1305-8223 (online), <https://doi.org/10.29333/ejmste/13608>

K Oyetade, A Harmse, T Zuva (2023), Factors Influencing Students' Use of e-Learning Technologies, International Journal of Learning, Teaching and Educational Research Vol. 22, No. 9, pp. 617-632, e-ISSN: 1694-2116, p-ISSN: 1694-2493
September 2023 <https://doi.org/10.26803/ijlter.22.9.33>

Oyetade, K., Zuva, T. & Harmse, A. (2022). Educational benefits of hackathon: A systematic literature review. World Journal on Educational Technology. 14(6), 1668–1684.
<https://doi.org/10.18844/wjet.v14i6.7131>

Kayode Emmanuel Oyetade, Tranos Zuva, Anneke Harmse (2022), Factors Influencing Hackathon Adoption for Learning Information Technology (IT) Programming Modules, TEM Journal. Volume 11, Issue 3, pages 1165-1171, ISSN 2217-8309, DOI: 10.1842.

William Ratjeana Malatji, Rene VanEck, Tranos Zuva (2021), A Systematic Review of the Adoption of eHealth Cloud-based Technology Applications during COVID-19, International Journal of Advanced Science Computing and Engineering (IJASCE), Vol 3, No 2 (2021), Online ISSN 2714-7533, pp. 53-64.

Masimba, F., & Zuva, T. (2021), Individual Acceptance of Technology: A Critical Review of Technology Adoption Models and Theories, Indiana Journal of Humanities and Social Sciences, 2(9), ISSN (Online)- 2582-8630, 37-48.

Julies David Bryan, Tranos Zuva (2021), A Review on TAM and TOE Framework Progression and How These Models Integrate, Advances in Science, Technology and Engineering Systems Journal Vol. 6, No. 3, ISSN: 2415-6698, 137-145

Evens Tebogo Moraba, Tranos Zuva, Chunling Du, Deon Marais (2021), Parametric Study for the Design of a Neutron Radiography Camera-Based Detector System, Advances in Science, Technology and Engineering Systems Journal Vol. 6, No. 3, ISSN: 2415-6698, 248-256.

E.A. Feukeu, T. Zuva (2020), Dynamic Broadcast Storm Mitigation Approach for VANETs, Future Generation Computer Systems, Vol 107, No.2020, ISSN 0167-739X, pp. 1097-1104, Publisher: Elsevier
[https://doi.org/10.1016/j.future.2017.12.049.\(http://www.sciencedirect.com/science/article/pii/S0167739X17315042\)](https://doi.org/10.1016/j.future.2017.12.049.(http://www.sciencedirect.com/science/article/pii/S0167739X17315042))

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

Thando Dube, Rene Van Eck, Tranos Zuva, (2020), Review of Technology Adoption Models and Theories to Measure Readiness and Acceptable Use of Technology in a Business Organization, Journal of Information Technology and Digital World (2020), Vol.02, No. 04, ISSN: 2582-2012 (online), pp. 207-212.

Kayode Emmanuel Oyetade, Tranos Zuva, Anneke Harmse, (2020), Technology Adoption in Education: A Systematic Literature Review, Advances in Science, Technology and Engineering Systems Journal (ASTESJ), Vol 5, No. 6, ISSN: 2415-6698, pp. 108-112.

William Ratjeana Malatji, Rene Van Eck, Tranos Zuva (2020), Understanding the usage, Modifications, Limitations and Criticisms of Technology Acceptance Model (TAM), Advances in Science, Technology and Engineering Systems Journal (ASTESJ), Vol 5, No. 6, ISSN: 2415-6698, pp. 113-117.

Tebogo Mokoena, Martin Appiah and Tranos Zuva (2020), Analysis of Social Engineering Attacks Using Exploit Kits, The 9th Computer Science On-line Conference (CSOC2020) in the Springer Series: Advances in Intelligent Systems and Computing, vol 1224., No. 2020, ISSN 2194-5357, pp 189-204.

Oyetade Kayode Emmanuel, Tranos Zuva, and Anneke Harmse (2020), A Review of the Determinant Factors of Technology Adoption, The 9th Computer Science On-line Conference (CSOC2020) in the Springer Series: Advances in Intelligent Systems and Computing, Vol. 1224, No. 2020, ISSN 2194-5357, pp 274-286.

Bryan David Julies and Tranos Zuva (2020), Review Paper: IOT Smart Home Issues, Challenges and Countermeasures, 4th Computational Methods in Systems and Software 2020 in the Springer Series: Advances in Intelligent Systems and Computing – Vol. 1295., No. 2020, ISSN 2194-5357, pp.1073-1089

Tadesse Zewdu and Tranos Zuva (2020), A Proactive University Library Book Recommender System, 4th Computational Methods in Systems and Software 2020 in the Springer Series: Advances in Intelligent Systems and Computing – Vol. 1295, No.2020, ISSN 2194-5357, pp.327-335

Lefatse Manamolela, Martin Appiah and Tranos Zuva (2020), Collaborative Filtering Recommendation Systems Algorithms, strengths and Open Issues, 4th Computational Methods in Systems and Software 2020 in the Springer Series: Advances in Intelligent Systems and Computing – Vol. 1295, No. 2020, ISSN 2194-5357, pp. 148-163

Ditlalanane Kolo and Tranos Zuva (2020), E- Learning Readiness Frameworks and Models, 4th Computational Methods in Systems and Software 2020 in the Springer Series: Advances in Intelligent Systems and Computing – Vol. 1295, No. 2020, ISSN 2194-5357, pp. 200-211

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

Makoena Moloto, Anneke Harmse and Tranos Zuva (2020), Impact of agile methodology use on project success in organizations-A systematic literature review, 4th Computational Methods in Systems and Software 2020 in the Springer Series: Advances in Intelligent Systems and Computing – Vol. 1295, No. 2020, ISSN 2194-5357, pp. 267-280

Olaifa M., Zuva T. (2020) Principal Component Analysis Enhanced Multi-layer Perceptron for Multi-economic Indicators in Southern African Economic Prediction. In: Silhavy R., Silhavy P., Prokopova Z. (eds) Software Engineering Perspectives in Intelligent Systems. CoMeSySo 2020. Advances in Intelligent Systems and Computing, Vol 1295, No. 2020, ISSN 2194-5357, pp. 674-684, Springer, Cham. https://doi.org/10.1007/978-3-030-63319-6_63

Joseph Zuva, Tranos Zuva (2020): Enhancing sustainable lifelong learning through competency-based education and training in Zimbabwe polytechnics, International Journal of Business and Management Studies Vol 12, No 1, 2020 ISSN: 1309-8047 (Online) pp. 133-146.

Jabulani K. Makhubela, Tranos Zuva, Olusanya Yinka Agunbiade (2020), Vision based Simultaneous Localization and Mapping in a light intensity Static Environment, The International Journal of Scientific Research & Engineering Technology (IJSET), vol. 13 (2020), ISSN: 1737-9296, pp.22-27, Copyright IPCO-2019. <http://ipco-co.com/IJSET/ijset-vol%2013/AC-73.pdf>

Tranos Zuva, Keneilwe Zuva (2020), Grouping recommender system users in distinct technology diffusion classifications for rating predictions, The International Journal of Scientific Research & Engineering Technology (IJSET), Vol. 13(2020), ISSN: 1737-9296, pp.16-21, Copyright IPCO-2019. <http://ipco-co.com/IJSET/ijset-vol%2013/AC-64.pdf>

Keneilwe Zuva, Tranos Zuva (2020), Tracking of Customers using Geofencing Technology, The International Journal of Scientific Research & Engineering Technology (IJSET), Vol. 13(2020), ISSN: 1737-9296, pp. 10-15, Copyright IPCO-2019. <http://ipco-co.com/IJSET/ijset-vol%2013/AC-63.pdf>

Trust Tshepo Mapoka, Keneilwe Zuva, Tranos Zuva (2019), Hack the Bank and Best Practices for Secure Bank, International Journal of Computer Science, Communication & Information Technology (CSCIT) Vol.7 (2019), ISSN 1737-930X pp. 17-21, Copyright IPCO-2019. https://www.academia.edu/38512699/Hack_the_Bank_and_Best_Practices_for_Secure_Bank

Magara Maake, Prof. Sunday O. Ojo, Prof. Tranos Zuva (2019), A serendipitous research paper recommender system, International Journal of Business and Management Studies Vol 11, No 1, ISSN: 1309-8047 (Online), pp. 38-53. http://www.sobiad.org/ejournals/journal_ijbm/archives/ijbm_2019-1/b-m-maake.pdf

Fine Masimba, Martin Appiah, Tranos Zuva (2019) Influencing Factors of Mobile Technology Adoption by Small Holder Farmers in Zimbabwe, In: Radek Silhavy, Petr Silhavy, Zdenka Prokopova. (eds) Intelligent Systems Applications in Software Engineering. CoMeSySo 2019. Computational Methods in Systems and Software 2019, Volume 1046, Springer, Cham, Online

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

ISSN 2194-5357 ISSN 2194-5365 (electronic) ISBN 978-3-030-30328-0 ISBN 978-3-030-30329-7 (eBook) <https://doi.org/10.1007/978-3-030-30329-7>, pp 125-134

ZUVA, Tranos; WORKU, Zeleke (2018). Relationship between National Culture and Development. *Journal of Economics and Behavioral Studies*, [S.l.], v. 10, n. 2, p. 145-154, May 2018. ISSN 2220-6140. Available at: <https://ifrnd.org/journal/index.php/jeb/article/view/2224>.

Joseph Zuva, Tranos Zuva (2018): Corporate governance and organisational performance, *International Journal of Business and Management Studies* Vol 10, No 1, 2018 ISSN: 1309-8047 (Online), pp 16-29.

Adedayo M. Balogun, Tranos Zuva (2017): Open ethical issues in digital forensic systems, *International Journal of eBusiness and eGovernment Studies* Vol 9, No 1, 2017 ISSN: 2146-0744 (Online), pp 55-69.

Zuva, T, Worku, Z. (2016). Cultural differences of countries within a regional economic integration and their impact on stakeholders. *International Journal of Business and Management Studies*, 8 (2), 187-201. ISSN: 1309-8047, (96-articles)
Retrieved from <http://dergipark.gov.tr/ijbms/issue/26059/274518>

Olusanya Y. Agunbiade, S.M. Ngwira, Tranos Zuva (2015): Improving Ground Detection for Unmanned Vehicle System in Environmental Noise Scenario, *International Journal of Advanced Manufacturing Technology* (Springer London), Pages: 1-9, ISSN: 0268-3768 (print version) ISSN: 1433-3015 (electronic version), DOI: 10.1007/s00170-015-8109-8. **(Impact Factor; 1.458)**

Paul Macharia, Upasana Gitanjali Singh and Tranos Zuva (2015), Improving Quality and Access to Healthcare by Adopting Emerging Technologies, *International Journal of Digital Information and Wireless Communications (IJDIWC)* 6(1): 41-45, The Society of Digital Information and Wireless Communications, 2016 ISSN: 2225-658X (Online); ISSN 2412-6551 (Print). **(Global Impact Factor 2013: 0.512)**

Sebatso J. Metla, Tranos Zuva, and Seleman M. Ngwira (2014), Aggregate Diversity Techniques in Recommender Systems, *Engineering and Technology Publishing Lecture Notes on Information Theory (LNIT)*, Volume 2, Number 3, September 2014, Pages:238-242, ISSN: (2301-3788), DOI: 10.12720/lnit.2.3.238-242.

T. Zuva, O.A Esan, and S.M Ngwira (2014), Hybridization of Bimodal Biometrics for Access control Authentication, *International Journal of Future Computer and Communication(IJFCC)*, Volume 3, Number 6, December 2014, Pages: 444-451, ISSN:2010-3751, DOI: 10.7763: **(Impact factor: 6.217)**

Tranos Zuva and Keneilwe Zuva (2014), Generic Service Location Discovery Recommender System for Mobile Users, *International Journal of Future Computer and Communication (IJFCC)*,

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

Volume 3, Number 6, December 2014, Pages: 432-435, ISSN:2010-3751, DOI: 10.7763. (**Impact factor: 6.217**)

O. A. Esan, S.M. Ngwira, T. Zuva (2014), Bimodal Biometrics for Health Care Infrastructure Security: International Journal of Computer and Information Technology (IJCIT), Volume 3, Number 3, March 2014, Pages: 299-305, ISSN 2279-0764 (**Global Impact Factor: 0.687**)

Olusanya Y. Agunbiade, S.M. Ngwira, Tranos Zuva (2014), Enhancement optimization of drivable terrain detection system for autonomous robots in light intensity scenario: International Journal of Advanced Manufacturing Technology (Springer), Pages:1-8, ISSN: 0268-3768 (print version) ISSN: 1433-3015 (electronic version), DOI: 10.1007/s00170-014-5972-7. (**Impact Factor; 1.458**)

Olusanya Y. Agunbiade¹, Tranos Zuva¹, Awosejo O. Johnson², Keneilwe Zuva³ (2013), Enhanced Performance of Road Recognition System of Autonomous Robots in Shadow Scenario: Signal & Image Processing: An International Journal (SIPIJ), Volume 4, Number 6 December 2013, Pages:1-12 , ISSN 0976-710X (Online) 2229-3922 (Print) (**5-Year Impact Factor: 1.745**)

Awosejo, O.J, Ajala EB, Pretorius P, Zuva T (2013), The Role Of Accounting Information Systems in Accounting Firm: International Journal of Computer Science Applications & Information Technologies (IJCSIT) Vol.1, No.2, December 2013, ISSN 2347-4154 (Online) 2347-453X (Print) (**Impact Factor: 0.31**)

K. Mapoka, H. Masebu, Tranos Zuva (2013), Mathematical Models and Algorithms Challenges: International Journal of Control Theory and Computer Modeling (IJCTCM), Vol. 3, No. 6, November 2013, Pages: 21-28, ISSN 2249-1155 (Online) 2319-4138 (Print)

Awosejo, O.J, Kekwaletswe, R, M, Pretorius, P and Zuva, T (2013), The Effect of Accounting Information Systems in Accounting: International Journal of Advanced Computer Research, Volume-3, Number-3, Issue-12, September-2013, Pages: 142 – 151, (ISSN (print): 2249-7277 ISSN (online): 2277-7970) (**Global Impact Factor 2014-0.641**)

O. A. Esan, S.M. Ngwira, T. Zuva (2013), Authentication of Degraded Fingerprints Using Robust Enhancement and Matching Techniques: ACEEE International Journal on Signal and Image Processing, Vol. 4, No. 3, Sept 2013, Pages: 1-8, ISSN 2152-5048 (print); ISSN 2152-5056 (online).

Kenneth O.M. Mapoka, Tranos Zuva, Howard Masebu, Keneilwe Zuva (2013), Performance Comparison of Two Controllers on a Nonlinear System: International Journal of Chaos, Control, Modelling and Simulation (IJCCMS), Vol. 2, No. 3, September 2013, Pages: 17-30, (ISSN: 2319-5398 (Online) 2319-8990 (Print))

Randle O.A, Zuva T, Ngwira S.M (2013), An Analysis Of Heuristic Search Techniques In Evolving Awale Game Player: International Journal of Computer Science Applications &

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

Information Technologies (IJCSIT) Vol.1, No.1 (September 2013), Pages: 11-21, (ISSN: 2320-9259 (Online) 2321-6344 (Print)) (**Impact Factor: 0.31**)

Tranos Zuva, Seleman M. Ngwira, Sunday O. Ojo, Keneilwe Zuva (2013), Performance Evaluation of Image Retrieval System using non-parametric Techniques: Journal of Multimedia Processing and Technologies (JMPT), Volume 3 No. 2, August 2013, Pages: 114-122, Print ISSN: 0976-4127, Online ISSN: 0976-4135

Moses O. Olaifa, Sunday O. Ojo, Olugbara O. Oludayo Tranos Zuva (2013), Healthgrids: Review, Challenges and Open Issues: International Journal of Research in Business and Technology (IJRBT), Volume 3 No. 1, August 2013, Pages: 114-122 (ISSN No. 2291-2118)

Kenneth Obrien Mpho Mapoka, Keneilwe Zuva, Tranos Zuva (2013), Modelling a Nonlinear Conveyor Belt System Integrated on a Closed Loop Channel: International Journal of Engineering and Innovative Technology (IJEIT), Volume 3, Issue 1, July 2013, Pages: 246-250 (ISSN: 2277-3754) (**Impact factor 0.981**)

Randle, O.A., Ogunduyile, O.O., Zuva T, Fashola N.A (2013), A Comparison of the Performance of Supervised and Unsupervised Machine Learning Techniques in evolving Awale/Mancala/Ayo Game Player: International Journal of Game Theory and Technology (IJGTT) , Volume 1, Number 1, June 2013, Pages: 9-18 (ISSN: 2320-9259 (Online) 2321-6344 (Print))

Ogunduyile O.O, Zuva K, Randle O.A, Zuva T (2013), Ubiquitous Healthcare Monitoring System Using Integrated Triaxial Accelerometer, Spo2 and Location Sensors: International Journal Of UbiComp (IJU), Volume 4, Number 2, April 2013, Pages:1-13 (ISSN: 0975 – 8992(Online) 0976 - 2213(Print)) (**Impact Factor (2013): 6.1302**)

Omobayo A. Esan, Tranos Zuva, Seleman M. Ngwira, Keneilwe Zuva (2013), Performance Improvement of Authentication of Fingerprints Using Enhancement and Matching Algorithms: International Journal of Emerging Technology and Advanced Engineering (IJETA) (An ISO 9001:2008 Certified Journal) Volume 3, Issue 2, February 2013, Pages: 473-482 (ISSN: 2250 – 2459) (**Impact Factor of 2.324**)

Tranos Zuva, Keneilwe Zuva, Seleman M. Ngwira, Sunday O. Ojo (2013), Image Representation Using Epanechnikov Density Feature Points Estimator: Signal & Image Processing: An International Journal (SIPIJ), Vol.4 No 1, February 2013, Pages: 75-82 (ISSN: 0976 - 710X (Online); 2229 - 3922 (print)) (**Impact Factor Not Applicable**)

Tranos Zuva, Sunday O. Ojo, Seleman M. Ngwira, Keneilwe Zuva (2012), A Survey of Recommender Systems Techniques, Challenges and Evaluation Metrics: International Journal of Emerging Technology and Advanced Engineering (IJETA) (An ISO 9001:2008 Certified

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

Journal) Volume 2, Issue 11, November 2012, Pages: 382-386 (ISSN: 2250 – 2459) (**Impact Factor of 2.324**)

Keneilwe Zuva, Tranos Zuva (2012), Effective of Image (Dis)similarity Algorithms on Content-Based Image Retrieval: International Journal of Engineering and Science (IJES) Vol. 1, No. 1, July 2012, Pages: 51-55, (ISSN No 2278 – 4721) (**Impact Factor: 1.819**)

Tranos Zuva, Oludayo O. Olugbara, Sunday O. Ojo and Seleman M. Ngwira (2012), Image Content in Location-Based Shopping Recommender Systems for Mobile Users: Advanced Computing: An International Journal (ACIJ), Vol.3, No.4, July 2012, Pages: 1-8, (ISSN: 2229 - 6727 [Online]; 2229 - 726X [Print] (**Impact Factor: 3.2. 4**)

Keneilwe Zuva, Tranos Zuva (2012), Evaluation of Information Retrieval Systems: International Journal of Computer Science & Information Technology (IJCSIT) Vol. 4, No. 3, June 2012, Pages: 35-43, (ISSN No 0975 – 3826 [Online]; 0975 - 4660 [Print] (**Impact Factor: 0.310**)

Tranos Zuva, Oludayo O. Olugbara, Sunday O. Ojo and Seleman M. Ngwira (2012), Introducing an Adaptive Kernel Density Feature Points Estimator for Image Representation: International Journal of Wireless Information Networks & Business information System (WINBIS) Vol. 3, June 2012, Pages: 124-130, (ISSN No: 2091-0266)

Keneilwe Zuva, Tranos Zuva, Abiodun Modupe, Agnieta Pretorius and Trust T Mapoka, (2012), Effective and Efficient (Dis)similarity and Retrieval Algorithms Used to Access Large Image Databases: International Journal of Wireless Information Networks & Business information System (WINBIS) Vol. 3, June 2012, Pages: 131-138, (ISSN No: 2091-0266)

Tranos Zuva, Oludayo O. Olugbara, Sunday O. Ojo and Seleman M. Ngwira (2012), Review of Image Shape Representation Methods, Challenges and Future Directions: Canadian Journal on Image Processing and Computer Vision Vol. 3 No. 1, March 2012, Pages: 32-37, ISSN: 1923-1717 (**Impact Factor; 3.810.**)

Tranos Zuva, Oludayo O. Olugbara, Sunday O. Ojo and Seleman M. Ngwira (2011) Kernel Density Feature Points Estimator for Content-based Image Retrieval: Signal & Image Processing: An International Journal (SIPIJ), Vol.4 No 1, February 2012, Pages: 103-111, ISSN 0975-5578 (Online) 0975-5934.

Tranos Zuva, Oludayo O. Olugbara, Sunday O. Ojo and Seleman M. Ngwira (2011), Image Segmentation, Available Techniques, Developments and Open Issues: Canadian Journal on Image Processing and Computer Vision Vol. 2 No. 3, March 2011, Pages: 20-29, ISSN: 1923-1717 (**Impact Factor: 3.810.**)

Refereed Conference Papers

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

Khokhoni Innocentia Mpho Ramaphosa, Tranos Zuva, Temidayo Otunniyi (2024), Comparison of Convolutional Neural Networks in SARS-CoV-2 Identification, 7th International Conference on Information and Computer Technologies (ICICT), pp. 111-116, ISBN 2769-454 IEEE, DOI 10.1109/ICICT62343.2024.00024

Olaifa, M., Zuva, T. (2024). Bidirectional LSTM for Air Quality Forecast. In: Arai, K. (eds) Intelligent Systems and Applications. IntelliSys 2024. Lecture Notes in Networks and Systems, vol 1067. Springer, Cham. https://doi.org/10.1007/978-3-031-66431-1_34, Print ISBN 978-3-031-66430-4, Online ISBN 978-3-031-66431-1.

Mkhonto, M., Zuva, T. (2024). Information System Success Factors: Applied Seddon Model with Task Technology Fit Model for Assessing the Acceptance of e-Government in South Africa. In: Silhavy, R., Silhavy, P. (eds) Cybernetics and Control Theory in Systems. CSOC 2024. Lecture Notes in Networks and Systems, vol 1119. Springer, Cham. https://doi.org/10.1007/978-3-031-70300-3_51 pp 686–693, Print ISBN 978-3-031-70299-0, Online ISBN 978-3-031-70300-3.

Mkhonto, M., Zuva, T. (2024). Factors Influencing Performance Evaluation of e-Government Diffusion. In: Silhavy, R., Silhavy, P. (eds) Data Analytics in System Engineering. CoMeSySo 2023. Lecture Notes in Networks and Systems, vol 935. Springer, Cham. https://doi.org/10.1007/978-3-031-54820-8_23, pp 294–303, ISSN 2367-3370.

Mkhonto, M., Zuva, T. (2024). Review of Technology Adoption Models and Theories at Organizational Level. In: Silhavy, R., Silhavy, P. (eds) Data Analytics in System Engineering. CoMeSySo 2023. Lecture Notes in Networks and Systems, vol 935. Springer, Cham. https://doi.org/10.1007/978-3-031-54820-8_25, pp 322–330, ISSN 2367-3370.

Mkhonto, M., Zuva, T. (2024). Readiness for Smart City in Municipalities in Mbabane, Eswatini. In: Silhavy, R., Silhavy, P. (eds) Data Analytics in System Engineering. CoMeSySo 2023. Lecture Notes in Networks and Systems, vol 935. Springer, Cham. https://doi.org/10.1007/978-3-031-54820-8_33, pp 402–410, ISSN 2367-3370.

Moyo, N., Harmse, A., Zuva, T. (2024). An Analysis of Readiness for the Adoption of Augmented and Virtual Reality in the South African Schooling System. In: Silhavy, R., Silhavy, P. (eds) Data Analytics in System Engineering. CoMeSySo 2023. Lecture Notes in Networks and Systems, vol 935. Springer, Cham. https://doi.org/10.1007/978-3-031-54820-8_24 pp 304–321, ISSN 2367-3370.

Mlambo, T.P., Van Eck, R., Zuva, T. (2023). Readiness for Asset Tracking Systems in Public Schools from Disadvantaged Areas in Gauteng, South Africa. In: Silhavy, R., Silhavy, P. (eds) Software Engineering Research in System Science. CSOC 2023. Lecture Notes in Networks and Systems, vol 722. Springer, Cham. https://doi.org/10.1007/978-3-031-35311-6_38, pp.370-381, Print ISBN: 978-3-031-35310-9, Online ISBN: 978-3-031-35311-6.

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

Malatji, W.R., VanEck, R., Zuva, T. (2023). A Review of Theories Utilized in Understanding Online Information Privacy Perceptions. In: Silhavy, R., Silhavy, P. (eds) Software Engineering Research in System Science. CSOC 2023. Lecture Notes in Networks and Systems, vol 722. Springer, Cham. https://doi.org/10.1007/978-3-031-35311-6_7, pp. 54-67, Print ISBN: 978-3-031-35310-9, Online ISBN: 978-3-031-35311-6.

Mkhonto, M., Zuva, T. (2023). A Critical Review of Success Models for Measuring Information System. In: Silhavy, R., Silhavy, P. (eds) Networks and Systems in Cybernetics. CSOC 2023. Lecture Notes in Networks and Systems, vol 723. Springer, Cham. https://doi.org/10.1007/978-3-031-35317-8_35, pp. 378-388, Print ISBN 978-3-031-35316-1, Online ISBN 978-3-031-35317-8

Rankapola, M.E., Zuva, T. (2023). A Constructivist Approach to Enhance Student's Learning in Hybrid Learning Environments. In: Silhavy, R., Silhavy, P. (eds) Artificial Intelligence Application in Networks and Systems. CSOC 2023. Lecture Notes in Networks and Systems, vol 724. Springer, Cham. https://doi.org/10.1007/978-3-031-35314-7_55, pp. 654-663, Print ISBN: 978-3-031-35313-0, Online ISBN 978-3-031-35314-7.

Rankapola, M.E., Zuva, T. (2023). The Effect of E-Learning Quality, Self-efficacy and E-Learning Satisfaction on the Students' Intention to Use the E-Learning System. In: Silhavy, R., Silhavy, P. (eds) Artificial Intelligence Application in Networks and Systems. CSOC 2023. Lecture Notes in Networks and Systems, vol 724. Springer, Cham. https://doi.org/10.1007/978-3-031-35314-7_54, pp. 640-653, Print ISBN: 978-3-031-35313-0, Online ISBN 978-3-031-35314-7

Sibanda, E.M., Zuva, T. (2023). Systematic Review on Bisonets for Linking Two Domains. In: Silhavy, R., Silhavy, P. (eds) Software Engineering Research in System Science. CSOC 2023. Lecture Notes in Networks and Systems, vol 722. Springer, Cham. https://doi.org/10.1007/978-3-031-35311-6_55, pp. 577-585, Print ISBN: 978-3-031-35310-9, Online ISBN: 978-3-031-35311-6

Naidu, G., Zuva, T., Sibanda, E.M. (2023). A Review of Evaluation Metrics in Machine Learning Algorithms. In: Silhavy, R., Silhavy, P. (eds) Artificial Intelligence Application in Networks and Systems. CSOC 2023. Lecture Notes in Networks and Systems, vol 724. Springer, Cham. https://doi.org/10.1007/978-3-031-35314-7_2, Print ISBN: 978-3-031-35310-9, Online ISBN: 978-3-031-35311-6

Malatji, W.R., VanEck, R., Zuva, T. (2023). A Review of Theories Utilized in Understanding Online Information Privacy Perceptions. In: Silhavy, R., Silhavy, P. (eds) Software Engineering Research in System Science. CSOC 2023. Lecture Notes in Networks and Systems, vol 722. Springer, Cham. https://doi.org/10.1007/978-3-031-35311-6_7, Print ISBN: 978-3-031-35310-9, Online ISBN: 978-3-031-35311-6

Joseph Zuva, Tranos Zuva (2022): Continuous assessment as a mechanism for nurturing competences in Zimbabwean polytechnic students: an introspection from a governance perspective, The Social Sciences International Research Conference (SSIRC), 19 to 21 October

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

2022, North-West University, South Africa and Open University of Mauritius, e-ISBN number: 978-0-620-96741-9(e-book), pp. 1136-1145.

Fine Masimba, Tranos Zuva (2022), Trends in the adoption and acceptance of technology: challenges and open issues. In: Silhavy, R. (eds) Software Engineering Perspectives in Systems. CSOC 2022. Lecture Notes in Networks and Systems, vol 501. Springer, Cham. https://doi.org/10.1007/978-3-031-09070-7_60, Electronic ISSN: 2367-3389, Print ISSN: 2367-3370, pp: in print.

Ntsako Hlungwani, Tranos Zuva (2022), A review on acceptance of recommender systems in higher education. In: Silhavy, R. (eds) Software Engineering Perspectives in Systems. CSOC 2022. Lecture Notes in Networks and Systems, vol 501. Springer, Cham. https://doi.org/10.1007/978-3-031-09070-7_58, Electronic ISSN: 2367-3389, Print ISSN: 2367-3370, pages: in print

Bryan Jullies, Tranos Zuva (2022). Consumer readiness for adoption of IOT-smart homes (CRA-IOT-SH) in South Africa. In: Silhavy, R. (eds) Software Engineering Perspectives in Systems. CSOC 2022. Lecture Notes in Networks and Systems, vol 501. Springer, Cham. https://doi.org/10.1007/978-3-031-09070-7_58, Electronic ISSN: 2367-3389, Print ISSN: 2367-3370, pages: 695-709

Kolo, I., Zuva, T. (2022). Trends in the Adoption and Acceptance of Technology: Challenges and Open Issues. In: Silhavy, R. (eds) Software Engineering Perspectives in Systems. CSOC 2022. Lecture Notes in Networks and Systems, vol 501. Springer, Cham. https://doi.org/10.1007/978-3-031-09070-7_60, Electronic ISSN: 2367-3389, Print ISSN: 2367-3370, pp 726–736

Sibanda, E.M., Zuva, T. (2022). Systematic Review on Online Social Media Recommender Systems. In: Silhavy, R. (eds) Software Engineering Perspectives in Systems. CSOC 2022. Lecture Notes in Networks and Systems, vol 501. Springer, Cham. https://doi.org/10.1007/978-3-031-09070-7_56. Electronic ISSN: 2367-3389, Print ISSN: 2367-3370, pp 675–684

Naidu, G., Zuva, T., Sibanda, E.M. (2022). Systematic Review on Churn Prediction Systems in Telecommunications. In: Bindhu, V., Tavares, J.M.R.S., Du, KL. (eds) Proceedings of Third International Conference on Communication, Computing and Electronics Systems . Lecture Notes in Electrical Engineering, vol 844. Springer, Singapore. https://doi.org/10.1007/978-981-16-8862-1_64, Electronic ISSN: 2367-3389, Print ISSN: 2367-3370, pp 983–995

Matshego, I., Zuva, T. (2022). Hybrid Radio Frequency Identification and Global Positioning System Asset Tracking. In: Bindhu, V., Tavares, J.M.R.S., Du, KL. (eds) Proceedings of Third International Conference on Communication, Computing and Electronics Systems . Lecture Notes in Electrical Engineering, vol 844. Springer, Singapore. https://doi.org/10.1007/978-981-16-8862-1_75, Electronic ISSN: 2367-3389, Print ISSN: 2367-3370, pp 1119–1132

Julies, B.D., Zuva, T. (2022). A Review on IOT Response to COVID-19 Pandemic, Challenges and Open Issues. In: Bindhu, V., Tavares, J.M.R.S., Du, KL. (eds) Proceedings of Third International Conference on Communication, Computing and Electronics Systems . Lecture Notes

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

in Electrical Engineering, vol 844. Springer, Singapore. https://doi.org/10.1007/978-981-16-8862-1_74, Electronic ISSN: 2367-3389, Print ISSN: 2367-3370, pp 1105–1118

Hlungwane, N.M., Sehume, O.M.M., Zuva, T. (2022). Diffusion Innovation, Adoption, and Acceptance of Recommender Systems in Higher Education. In: Silhavy, R. (eds) Artificial Intelligence Trends in Systems. CSOC 2022. Lecture Notes in Networks and Systems, vol 502. Springer, Cham. https://doi.org/10.1007/978-3-031-09076-9_55, Electronic ISSN: 2367-3389, Print ISSN: 2367-3370, pp 592–603

Malatji, W.R., VanEck, R., Zuva, T. (2022). The Role of Gender, Age and Cultural Differences in Online Information Disclosure and Privacy: A Systematic Review. In: Silhavy, R. (eds) Software Engineering Perspectives in Systems. CSOC 2022. Lecture Notes in Networks and Systems, vol 501. Springer, Cham. https://doi.org/10.1007/978-3-031-09070-7_61, Electronic ISSN: 2367-3389, Print ISSN: 2367-3370, pp 737–751

Masimba, F., Zuva, T. (2022). A Model for the Adoption and Acceptance of Mobile Farming Platforms (MFPs) by Smallholder Farmers in Zimbabwe. In: Silhavy, R. (eds) Software Engineering Perspectives in Systems. CSOC 2022. Lecture Notes in Networks and Systems, vol 501. Springer, Cham. https://doi.org/10.1007/978-3-031-09070-7_59, Electronic ISSN: 2367-3389, Print ISSN: 2367-3370, pp 710–725

Lieta M.A., Sehume O., Zuva T. (2021) The Factors that Influence the Users' Adoption and Acceptance of Cloud Computing at a University of Technology in South Africa. In: Silhavy R., Silhavy P., Prokopova Z. (eds) Software Engineering Application in Informatics. CoMeSySo 2021. Lecture Notes in Networks and Systems, vol 232. Springer, Cham. https://doi.org/10.1007/978-3-030-90318-3_69, ISSN 2367-3370, pp. 885-898

Malatji W.R., Zuva T., Van Eck R. (2021) Acceptance of Biometric Authentication Security Technology on Mobile Devices. In: Bindhu V., Tavares J.M.R.S., Boulogeorgos AA.A., Vuppalapati C. (eds) International Conference on Communication, Computing and Electronics Systems. Lecture Notes in Electrical Engineering, vol 733. Springer, Singapore. https://doi.org/10.1007/978-981-33-4909-4_11, ISBN 978-981-33-4908-7, Online ISBN 978-981-33-4909-4, pp 145-156|.

O. Y. Agunbiade and T. Zuva, "Image Enhancement from Illumination Variation to Improve the Performance of Simultaneous Localization and Mapping Technique," 2021 4th International Conference on Information and Computer Technologies (ICICT), 2021, doi: 10.1109/ICICT52872.2021.00027, ISBN:978-1-6654-1400-5, Electronic ISBN:978-1-6654-1399-2, pp. 115-121.

Moses Olaifa and Tranos Zuva (2021), Application of Principal Component Analysis based Support Vector Machine for long-run economic growth forecasting, In: Silhavy R. (eds) Artificial Intelligence in Intelligent Systems. CSOC 2021. Lecture Notes in Networks and Systems, vol 229. Springer, Cham. https://doi.org/10.1007/978-3-030-77445-5_2, Electronic ISSN 2367-3389, ISSN 2367-3370, pp 8-16.

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

Itumeleng Matshego and Tranos Zuva (2021), Hybrid radio frequency identification and global positioning system asset tracking, 3rd International conference on Communication, Computing and Electronics Systems (ICCCES 2021) in Springer Series - Lecture Notes in Electrical Engineering, ISSN: 1876-1100, Accepted.

Makoena Moloto, Anneke Harmse, Tranos Zuva (2021), Agile Methodology use factors that influence project performance in South African Banking sector-A case study, IEEE International Conference on Electrical, Computer, Communications and Mechatronics Engineering, 07-08 October 2021, Mauritius, Electronic ISBN:978-1-6654-1262-9, ISBN: :978-1-6654-2943-6, pp 1 - 6

Gireen Naidu, Tranos Zuva, Elias Mmbongeni Sibanda (2021), Systematic Review on Churn Prediction Systems in Telecommunications, 3rd International conference on Communication, Computing and Electronics Systems (ICCCES 2021) in Springer Series - Lecture Notes in Electrical Engineering, ISSN: 1876-1100, Accepted.

Bryan David Julies and Tranos Zuva (2021), A Review on IOT response to Covid-19 Pandemic, Challenges and Open Issues, 3rd International conference on Communication, Computing and Electronics Systems (ICCCES 2021) in Springer Series - Lecture Notes in Electrical Engineering, ISSN: 1876-1100, Accepted.

Willie L., Zuva T. (2021) Measuring Success of Information System (IS) in Small and Medium Enterprises (SMEs) in Gauteng. In: Silhavy R., Silhavy P., Prokopova Z. (eds) Software Engineering Application in Informatics. CoMeSySo 2021. Lecture Notes in Networks and Systems, vol 232. Springer, Cham. https://doi.org/10.1007/978-3-030-90318-3_36, ISSN 2367-3370, pp 432-446.

Rankapola M.E., Zuva T. (2021) A Review of e-Learning System Success Models. In: Silhavy R., Silhavy P., Prokopova Z. (eds) Software Engineering Application in Informatics. CoMeSySo 2021. Lecture Notes in Networks and Systems, vol 232. Springer, Cham. https://doi.org/10.1007/978-3-030-90318-3_42, ISSN 2367-3370, pp 511-526.

Chireka F., Zuva T. (2021) Teaching and Learning with Technology: The Factors that Affect ICT Integration in Gauteng Public Schools. In: Silhavy R., Silhavy P., Prokopova Z. (eds) Data Science and Intelligent Systems. CoMeSySo 2021. Lecture Notes in Networks and Systems, vol 231. Springer, Cham. https://doi.org/10.1007/978-3-030-90321-3_20, ISSN 2367-3370, pp 246-257.

Tumisang Akinpelu, Rene van Eck and Tranos Zuva (2021), Maturity Models, Challenges and Open Issues, CSOC 2021. Lecture Notes in Networks and Systems, vol 230. Springer, Cham. https://doi.org/10.1007/978-3-030-77442-4_9, ISSN 2194-5357, pp. 110–118.

Malatji W.R., VanEck R., Zuva T. (2021) Measuring the Adoption of Biometric Verification Technique Implementations on Mobile Devices. In: Silhavy R., Silhavy P., Prokopova Z. (eds) Software Engineering Application in Informatics. CoMeSySo 2021. Lecture Notes in Networks

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

and Systems, vol 232. Springer, Cham. https://doi.org/10.1007/978-3-030-90318-3_13, ISSN 2367-3370, pp 137-148.

Akinpelu T., Eck R., Zuva T. (2021) Agile Architecture Frameworks: Challenges and Open Issues. In: Silhavy R. (eds) Software Engineering and Algorithms. CSOC 2021. Lecture Notes in Networks and Systems, vol 230. Springer, Cham. https://doi.org/10.1007/978-3-030-77442-4_4, ISSN 2194-5357, pp. 59–66.

S Mhlongo, K.E Oyetade, and Tranos Zuva (2020, The Effectiveness of Collaboration Using the Hackathon to Promote Computer Programming Skills, IEEE International Multidisciplinary Information Technology and Engineering Conference (IEEE IMITEC 2020), 25-27 November 2020, Sol Plaatje University in Kimberley, South Africa, ISBN: 9781728195216,, Electronic ISBN:978-1-7281-9520-9, pp. 1-6.

Wiliam Ratjeana Malatji, Rene van Eck and Tranos Zuva (2020), Acceptance of Biometric Authentication Security Technology on Mobile Devices, IEEE International Multidisciplinary Information Technology and Engineering Conference (IEEE IMITEC 2020), 25-27 November 2020, Sol Plaatje University in Kimberley, South Africa, ISBN: 9781728195216, Electronic ISBN:978-1-7281-9520-9, pp.: 1–5.

Kayode Emmanuel Oyetade, Anneke Harmseand and Tranos Zuva (2020), Technology Adoption Factors in Education: A Review, IEEE International Conference on Artificial Intelligence, Big Data, Computing and Data Communication Systems (icABCD 2020), 6-7 August 2020 Durban, KZN, South Africa, ISBN: 978-1-7281-6769-5, pp. 1-10

Motebang Daniel Mpela and Tranos Zuva (2020), A Mobile Proximity Job Employment Recommender System, IEEE International Conference on Artificial Intelligence, Big Data, Computing and Data Communication Systems (icABCD 2020), 6-7 August 2020 Durban, KZN, South Africa, ISBN: 978-1-7281-6769-5, pp. 1-6

Lefats'E Manamolela, Martin Appiah & Tranos Zuva (2020), A Survey of Content-Based Filtering Techniques for Personalized Recommendations, ACM International Conference on Intelligent and Innovative Computing Applications (ICONIC), 24-25th September 2020, Port Louis, Mauritius, Republic of Mauritius, ISBN: 978-1-4503-7558-0, pp.83-88

Emmanuella Kahasha Iranga and Tranos Zuva (2020), Mobile Crowdsourcing in Crop Production for Farmers in Rural Areas of the South Kivu (DRC), ACM International Conference on Intelligent and Innovative Computing Applications (ICONIC), 24-25th September 2020, Port Louis, Mauritius, Republic of Mauritius, ISBN: 978-1-4503-7558-0, pp.35-40.

Tranos Zuva, Pierre Joubert, Malejone Moqhoba, Joe Modise, Peter Bdc Masombuka (2019), Employees satisfaction measurement at an university of technology in South Africa, Proceedings of the 10th International Conference on Social Sciences (ICSS), 3-5 September 2019, Vanderbijlpark, South Africa, ISBN: 978-1-86822-688-7, pp. 351- 360.

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

OY Agunbiade, T Zuva (2019), Simultaneous Localization and Mapping in a Dynamic Noisy Environment in Real Time, IEEE 2019 Third World Conference on Smart Trends in Systems Security and Sustainability (WorldS4), 30 - 31 July 2019, London, United Kingdom, IEEE ISBN: 978-1-7281-3780-3, pp. 280-287.

Khathutshelo Nicholas Thovheyi, Tranos Zuva (2019), Impact of I/O workloads on ram performance for virtual systems, IEEE International Multidisciplinary Information Technology and Engineering Conference (IEEE IMITEC 2019), 21-22 November 2019, South Africa, Conference Number #45504, ISBN: 978-1-7281-0040-1, pp. 242-247.

Irene Popela, Tranos Zuva and Martin Appiah (2019), Factors that Influence the Adoption of Electronic Patients Records Management Systems in South Africa, IEEE International Multidisciplinary Information Technology and Engineering Conference (IEEE IMITEC 2019), 21-22 November 2019, South Africa, Conference Number #45504, ISBN: 978-1-7281-0040-1, pp. 110-118.

Lynette Simelane, Tranos Zuva (2019), Decision support framework for the adoption of software development methodologies, IEEE International Multidisciplinary Information Technology and Engineering Conference (IEEE IMITEC 2019), 21-22 November 2019, South Africa, Conference Number #45504, ISBN: 978-1-7281-0040-1, pp. 130-135.

Fine Masimba, Martin Appiah, Tranos Zuva (2019), A Review of Cultural Influence on Technical Acceptance, IEEE International Multidisciplinary Information Technology and Engineering Conference (IEEE IMITEC 2019), 21-22 November 2019, South Africa, Conference Number #45504, ISBN: 978-1-7281-0040-1, pp. 103-109.

JK Makhubela, Tranos Zuva, Olusanya Yinka Agunbiade (2019), Vision based EKF SLAM in a light intensity Static Environment, 6th International Conference on Automation, Control Engineering & Computer Science (ACECS-2019), 1-3 October 2019, Istanbul-Turkey ISSN: 1737-9334, pp. 9-14.

Tranos Zuva, Keneilwe Zuva, Trust Tshepo Mapoka (2019), Calculation of risk in predicting recommender system users ratings in distinct technology diffusion, 6th International Conference on Automation, Control Engineering & Computer Science (ACECS-2019), 1-3 October 2019, Istanbul-Turkey ISSN: 1737-9334, pp. 1-5.

Moses Olaifa, Tranos Zuva (2019), Causal Path Planning Graph Based on Semantic Pre-link Computation for Web Service Composition, Proceedings of IEEE of 2019 2nd International Conference on new Trends in Computing Sciences (ICTCS), 9-11 October 2019, Amman-Jordan, ISSN: 978-1-7281-2882-5, Page(s): 1 – 5.

Keneilwe Zuva, Queen Miriam Sello, Tranos Zuva (2019), Tracking Current and/or Potential Customers using Geofencing, Challenges and Open Issues, 6th International Conference on

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

Automation, Control Engineering & Computer Science (ACECS-2019), 1-3 October 2019, Istanbul-Turkey ISSN: 1737-9334, pp. 93-97.

Trust Tshepo Mapoka, Keneilwe Zuva, Tranos Zuva (2018), Hack the Bank and Best Practices for Secure Bank, 5th International Conference on Automation, Control Engineering and Computer Science (ACECS-2018), 19-22December 2018, Hammamet - Tunisia, ISSN: 1737-9334, pp 94-98.

R. Moletsane, K. Zuva and T. Zuva (2018), Mobile Healthcare Benefits and the Health Threat Posed by Mobile Health Technologies in Africa, Proceedings of IEEE 2018 The 8th International Platform on Integrating Arab e-Infrastructure in a Global Environment, 2-3 December 2018, Amman Marriott Hotel, Jordan, pp. 21-25

R. Moletsane, and T. Zuva (2018), Managing Electronic Waste Generated from Mobile Phones: A Review of African Countries, Lecture Notes in Engineering and Computer Science: Proceedings of The World Congress on Engineering and Computer Science 2018, 23-25 October, 2018, San Francisco, USA, ISBN: 978-988-14048-1-7 ISSN: 2078-0958 (Print); ISSN: 2078-0966 (Online), pp193-198

Adedayo M. Balogun and Tranos Zuva (2018), Criminal Profiling in Digital Forensics: Assumptions, Challenges and Probable Solution, Proceedings of IEEE 2018 International Conference on Intelligent & Innovative Computing Applications (ICONIC), Plaine Magnien, Mauritius, 6th & 7th December 2018, ISBN 978-1-5386-6476-6, pp.19-25.

Elias M. Sibanda and Tranos Zuva (2018), Call Data Record Based Recommender Systems for Mobile Subscribers, Proceedings of IEEE 2018 International Conference on Intelligent & Innovative Computing Applications (ICONIC), Plaine Magnien, Mauritius, 6th & 7th December 2018, ISBN 978-1-5386-6476-6, pp.170-176.

Jabulani Makhubela, Tranos Zuva and Olusanya Y. Agunbiade (2018), Framework for Visual Simultaneous Localization and Mapping in a Noisy Static Environment, Proceedings of IEEE 2018 International Conference on Intelligent & Innovative Computing Applications (ICONIC), Plaine Magnien, Mauritius, 6th & 7th December 2018, ISBN 978-1-5386-6476-6, pp. 352-357.

Irene Kolo and Tranos Zuva (2018), Comparison Between the e-Learning Readiness of Educators and Learners in South African Schools, Proceedings of IEEE 2018 International Conference on Intelligent & Innovative Computing Applications (ICONIC), Plaine Magnien, Mauritius, 6th & 7th December 2018, ISBN 978-1-5386-6476-6, pp. 473-478.

Olusanya Y. Agunbiade and Tranos Zuva (2018), Simultaneous Localization and Mapping in Application to Autonomous Robot, Proceedings of IEEE 2018 International Conference on Intelligent & Innovative Computing Applications (ICONIC), Plaine Magnien, Mauritius, 6th & 7th December 2018, ISBN 978-1-5386-6476-6, pp.501-505.

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

Jabulani Makhubela, Tranos Zuva and Olusanya Y. Agunbiade (2018), A Review on Vision Simultaneous Localization and Mapping (VSLAM), Proceedings of IEEE 2018 International Conference on Intelligent & Innovative Computing Applications (ICONIC), Plaine Magnien, Mauritius, 6th & 7th December 2018, ISBN 978-1-5386-6476-6, pp.572-576.

Temitope Adetunji, Tranos Zuva and Martin Appiah (2018), A Framework of Bimodal Biometrics for E-assessment Authentication Systems, Proceedings of IEEE 2018 International Conference on Intelligent & Innovative Computing Applications (ICONIC), Plaine Magnien, Mauritius, 6th & 7th December 2018, ISBN 978-1-5386-6476-6, pp.603-607.

Maake Benard Magara, Sunday O Ojo, Tranos Zuva (2018), A comparative analysis of text similarity measures and algorithms in research paper recommender systems, Proceedings of IEEE Information Communications Technology and Society (ICTAS), Durban, South Africa, 8-9 March 2018, Electronic ISBN: 978-1-5386-1001-5, Print ISBN: 978-1-5386-6562-6, pp.1-5

Ramadile Moletsane Carin Venter Tranos Zuva (2018), An analysis of possible regulations for electronic waste management, 9th International Conference on Social Sciences (ICSS), Fancourt Hotel, George, Western Cape, South Africa, 29-31 August 2018, ISBN 978-1-86822-688-7, pp. 221-229.

Fhatuwani Vivian Mapande, Tranos Zuva and Martin Appiah (2018), Users' Perceptions on Security of Mobile Computing for Adoption of e-Applications in South Africa, 2018 IEEE International Conference on Advances in Big Data, Computing and Data Communication Systems (icABCD), Durban, South Africa, 6-7 August 2018, ISBN 978-1-5386-3059-4 pp. 60-68

Irene Kolo and Tranos Zuva (2018), Assessment of e-learning readiness in South African Schools, 2018 IEEE International Conference on Advances in Big Data, Computing and Data Communication Systems (icABCD), Durban, South Africa, 6-7 August 2018, ISBN 978-1-5386-3059-4 pp. 109-116

Athanacious Makgamatha, Tranos Zuva and Moshe Masonta (2018), Channel Selection Technique to Satisfy Secondary Users Quality of Service (QoS) Requirements in TV White Space, 2018 IEEE International Conference on Advances in Big Data, Computing and Data Communication Systems (icABCD), Durban, South Africa, 6-7 August 2018, ISBN 978-1-5386-3059-4 pp. 258-166

Thulani Shongwe and Tranos Zuva (2018), Benefits of Crowdsourcing and Its Growth in The Education Sector, 2018 IEEE International Conference on Advances in Big Data, Computing and Data Communication Systems (icABCD), Durban, South Africa, 6-7 August 2018, ISBN 978-1-5386-3059-4 pp. 286-291

Khokhoni Innocentia Mpho Ramaphosa, Tranos Zuva and Raoul Kwuimi (2018), Educational Data Mining to Improve Learner Performance in Gauteng Primary Schools, 2018 IEEE International Conference on Advances in Big Data, Computing and Data Communication Systems (icABCD), Durban, South Africa, 6-7 August 2018, ISBN 978-1-5386-3059-4 pp. 292-298

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

Moraba Mokwetli and Tranos Zuva (2018), Adoption of the ICT Security Culture in SMME's in the Gauteng Province, South Africa, 2018 IEEE International Conference on Advances in Big Data, Computing and Data Communication Systems (icABCD), Durban, South Africa, 6-7 August 2018, ISBN 978-1-5386-3059-4 pp.380-387

Maake Benard Magara, Sunday O. Ojo and Tranos Zuva (2018), Towards A Serendipitous Research Paper Recommender System Using Bisociative Information Networks (BisoNets), 2018 IEEE International Conference on Advances in Big Data, Computing and Data Communication Systems (icABCD), Durban, South Africa, 6-7 August 2018, ISBN 978-1-5386-3059-4 pp.470-476

E. A. Feukeu, T. Zuva (2017), Mitigation of a broadcast storm problem in a vehicular Ad Hoc Network (VANETS), The 16th IEEE International Conference on Ubiquitous Computing and Communications (IUCC 2017), Guangzhou, China, December 12-15, DOI: 10.1109/ISPA/IUCC.2017.00199, pp1289-1295.

Tebogo Mokoena, Tranos Zuva (2017), Malware Analysis and Detection in enterprise systems, The 16th IEEE International Conference on Ubiquitous Computing and Communications (IUCC 2017), Guangzhou, China, December 12-15, DOI: 10.1109/ISPA/IUCC.2017.00199, pp1304-1310.

K. Zuva, T Zuva (2017), Diversity and Serendipity in Recommender Systems, International Conference on Big Data and Internet of Things (BDIOT 2017 – ACM), London, UK, 20-22 December, 2017, ACM, ISBN: 978-1-4503-5430-1, pp: 120-124.

Joseph Zuva, Tranos Zuva (2017), Corporate governance and organisational performance: a discussion, Proceedings of 8th International Conference on Social Sciences Advancing Interdisciplinary & Multidisciplinary Studies on Social sciences, Durban, South Africa, 23-25 August 2017, ISBN: 978-1-86822-688-7, pp 721-723.

Tranos Zuva (2017), Relationship between national culture and development, Proceedings of 8th International Conference on Social Sciences Advancing Interdisciplinary & Multidisciplinary Studies on Social sciences, Durban, South Africa, 23-25 August 2017, ISBN: 978-1-86822-688-7, pp 649-662

Adedayo M. Balogun, Tranos Zuva (2017), Open Ethical Issues in Digital Forensic Systems, Proceedings of 8th International Conference on Social Sciences Advancing Interdisciplinary & Multidisciplinary Studies on Social sciences, Durban, South Africa, 23-25 August 2017, ISBN: 978-1-86822-688-7, pp 532-539.

Randle Oluwarotimi, Matsebula Fezile, Zuva Tranos (2017), Storage solution: a virtual distributed storage and migration architecture for big data, Proceedings of 2017 2nd Joint International

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

Mechanical Electronic and Information Technology Conference (JIMET 2017), Chongqing, China, March 24-26, 2017, ISBN:978-1-78561-335-7, pp 1-5.

E. A. Feukeu, T. Zuva (2017), DBSMA Approach for Congestion Mitigation in VANETs, The 8th International Conference on Ambient Systems, Networks and Technologies (ANT 2017) (Publisher: ELSEVIER), Madeira, Portugal, May 16-19, 2017, SBN: 1877-0509, pp 42–49.

Adedayo M. Balogun, Tranos Zuva (2017), Open Issues in Cybercriminal Profiling, 2017 1st International Conference on Next Generation Computing Applications (NextComp), Mauritius, 19th - 21st July 2017, SBN: 978-1-5386-3831-6/17/\$31.00 ©2017 IEEE, pp 141-145.

Oluwarotimi Randle, Tranos Zuva and Fezile Matsebula (2017), A Mobile Cloud -Based Data Migration and Staging Architecture, 9th IEEE-GCC Conference and Exhibition (GCCCE), Manama, Bahrain, 8-11 May 2017, SBN: 978-1-5386-2756-3/17/\$31.00 ©2017 IEEE, pp 787-792.

E. A Feukeu, T. Zuva (2017), Broadcast Storm Mitigation in a Vehicular Network using DBSMA, 9th IEEE-GCC Conference and Exhibition (GCCCE), Manama, Bahrain, 8-11 May 2017, SBN: 978-1-5386-2756-3/17/\$31.00 ©2017 IEEE, pp 891-896.

Tranos Zuva, Mbaya Wa Mbaya, WM and Raoul Kwuimi (2017), Context-Aware Group Recommender System for Tourists, 9th IEEE-GCC Conference and Exhibition (GCCCE), Manama, Bahrain, 8-11 May 2017, SBN: 978-1-5386-2756-3/17/\$31.00 ©2017 IEEE, pp 937-942.

Elias Tabane and Tranos Zuva (2016), Survey Of Smart City Initiatives Towards Urbanization, 2016 Third International Conference on Advances in Computing, Communication and Engineering (ICACCE 2016), Durban, South Africa, 28-29 November 2016, ISBN: 987-1-5090-2576-6, pp. 417-422.

Rene van Eck and Tranos Zuva (2016), Implementing An Immersive Environment: A Critical Review And Conceptual Framework, 2016 Third International Conference on Advances in Computing, Communication and Engineering (ICACCE 2016), Durban, South Africa, 28-29 November 2016, ISBN: 987-1-5090-2576-6, pp. 389-392.

Ebunoluwa Ashley-Dejo, Tranos Zuva and Suleman Ngwira (2016), A Context-Aware Intelligent Recommender System for Tourist, 2016 Third International Conference on Advances in Computing, Communication and Engineering (ICACCE 2016), Durban, South Africa, 28-29 November 2016, ISBN: 987-1-5090-2576-6, pp. 256-260.

Elias Tabane and Tranos Zuva (2016), Is There A Room For Security And Privacy In IoT?, 2016 Third International Conference on Advances in Computing, Communication and Engineering (ICACCE 2016), Durban, South Africa, 28-29 November 2016, ISBN: 987-1-5090-2576-6, pp. 195-200.

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

Kwuimi Raoul, Fonou Dombeu Jean Vincent and Tranos Zuva (2016), An Empirical Analysis of Semantic Web Mechanisms for Storage and Query of Ontologies in Relational Databases, 2016 Third International Conference on Advances in Computing, Communication and Engineering (ICACCE 2016), Durban, South Africa, 28-29 November 2016, ISBN: 987-1-5090-2576-6, pp. 142-146.

Confidence Hlatshwayo and Tranos Zuva (2016), Mobile Public Cloud Computing, Merits and Open Issues, 2016 Third International Conference on Advances in Computing, Communication and Engineering (ICACCE 2016), Durban, South Africa, 28-29 November 2016, ISBN: 987-1-5090-2576-6, pp. 138-141.

Sello Prince Sekwatlakwatla, Tranos Zuva and Maredi Mphahlele (2016), Traffic Flow Prediction in Cloud Computing, 2016 Third International Conference on Advances in Computing, Communication and Engineering (ICACCE 2016), Durban, South Africa, 28-29 November 2016, ISBN: 987-1-5090-2576-6, pp. 133-137.

Moses Olaifa, Sunday Ojo, Tranos Zuva (2016), Hybrid Service Discovery Approach for Peer-to-peer Web Service Systems, IEEE SAI Intelligent Systems Conference 2016 (IntelliSys 2016), London UK, from 21-22 September 2016, pp. 791 - 796.

B. Magara, Seleman M. Ngwira, Sunday O. Ojo, T. Zuva (2016): MPlist: Context Aware Music Playlist. IEEE International Conference on Emerging Technologies and Innovative Business Practices for the Transformation of Societies (IEEE EmergiTech 2016), Mauritius, August 03 - 06, 2016, pp. 309 - 316.

Lerato Masupha, Tranos Zuva, Seleman Ngwira and Omobayo Esan (2015), Face Recognition Techniques, their Advantages, Disadvantages and Performance Evaluation, IEEE International Conference on Computing, Communication and Security (ICCCS-2015), Le Meridien, Pointe Aux Piments, Pamplemousses, Mauritius, 4-6 December 2015, ISBN 978-1-4673-9353-9, pp 231-235

Omobayo Esan, Ebuloluwa Ashley-Dejo, Masupha Lerato, Ngwira Sm and Tranos Zuva (2015), A Survey of Recommender System Feedback Techniques, Comparison and Evaluation Metrics, IEEE International Conference on Computing, Communication and Security (ICCCS-2015), Le Meridien, Pointe Aux Piments, Pamplemousses, Mauritius, 4-6 December 2015, ISBN 978-1-4673-9353-9, pp 183-186.

Ebuloluwa Ashley-Dejo, Tranos Zuva and Seleman Ngwira (2015), A Brief Perspective of Context-Aware Recommender System and Services, IEEE International Conference on Computing, Communication and Security (ICCCS-2015), Le Meridien, Pointe Aux Piments, Pamplemousses, Mauritius, 4-6 December 2015, ISBN 978-1-4673-9353-9, pp 170-175.

Elesa Ntuli, S. M. Ngwira, T. Zuva (2015), Review of Channel Allocation Methods for

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

TVWS Devices Using PAWS Protocol, IEEE International Conference on Computing, Communication and Security (ICCCS-2015), Le Meridien, Pointe Aux Piments, Pamplemousses, Mauritius, 4-6 December 2015, ISBN 978-1-4673-9353-9, pp 187-191.

Zanele Mahlobogwane, S. M. Ngwira, T. Zuva (2015), An Improved Energy Efficient Chain Base Routing in Wireless Sensor Networks, IEEE International Conference on Computing, Communication and Security (ICCCS-2015), Le Meridien, Pointe Aux Piments, Pamplemousses, Mauritius, 4-6 December 2015, ISBN 978-1-4673-9353-9, pp 248-253.

Samuel Ojo, Tranos Zuva and Seelman Ngwira (2015), Survey of Biometric Authentication for Assessment, IEEE International Conference on Computing, Communication and Security (ICCCS-2015), Le Meridien, Pointe Aux Piments, Pamplemousses, Mauritius, 4-6 December 2015, ISBN 978-1-4673-9353-9, pp 205-208.

Samuel Ojo, Tranos Zuva and Seelman Ngwira (2015), Multimodal Biometric Scheme for E-assessment, IEEE International Conference on Computing, Communication and Security (ICCCS-2015), Le Meridien, Pointe Aux Piments, Pamplemousses, Mauritius, 4-6 December 2015, ISBN 978-1-4673-9353-9, pp 199-204.

E. A Feukeu, S. M. Ngwira, T. Zuva (2015), Doppler Shift Signature for BPSK in a Vehicular Network: IEEE 802.11p, IEEE International Conference on Mechatronics and Automation (ICMA 2015), Beijing, China, August 2 - August 5, ISBN:978-1-4799-7096-4, pp 1744-1749.

Lerato Masupha, Tranos Zuva, Salemen Ngwira (2015), A Review of Gait Recognition Techniques and their Challenges, The Third International Conference on Digital Information Processing, E-Business and Cloud Computing (DIPECC2015), University of Mauritius, Reduit, Mauritius, on June 29 - July 01 2015, ISBN: 978-1-941968-14-7 ©2015 SDIWC, pp 63-69.

Tranos Zuva, Seleman M. Ngwira (2015), Secure Communication Using Encryption, Challenges and Open Issues, The Third International Conference on Digital Information Processing, E-Business and Cloud Computing (DIPECC2015), University of Mauritius, Reduit, Mauritius, on June 29 - July 01 2015, ISBN: 978-1-941968-14-7 ©2015 SDIWC, pp 110-115.

E. Tabane, T. Zuva, S.M. Ngwira (2015), The Socio-Economic Impact of Internet of Things towards Smart Cities, The Third International Conference on Digital Information Processing, E-Business and Cloud Computing (DIPECC2015), University of Mauritius, Reduit, Mauritius, on June 29 - July 01 2015, ISBN: 978-1-941968-14-7 ©2015 SDIWC, pp 102-109.

Tranos Zuva, Seleman M. Ngwira, Sunday O. Ojo, Keneilwe Zuva, (2014), Effectiveness of non-parametric techniques in image retrieval, Proceeding of IEEE Computer Applications & Research (WSCAR), 2014 World Symposium, Sousse, Tunisia, 18-20 Jan. 2014, ISBN: 978-1-4799-2805-7, DOI:10.1109/WSCAR.2014.6916843, pp 1-5.

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

Sebatso J. Metla, Tranos Zuva, and Seleman M. Ngwira, Aggregate Diversity Techniques in Recommender Systems, International Conference on Information and Computer Technology (ICICT 2014), Chengdu, China, September 6-8, 2014, pp. 1-5.

Elesa Ntuli, Fisseha Mekuria, Seleman Ngwira, and Tranos Zuva, A Review of Dynamic Spectrum Networks Using Cognitive Radio, Proceedings of the World Congress on Engineering and Computer Science 2014, Vol II, WCECS 2014, 22-24 October, 2014, San Francisco, USA, ISBN: 978-988-19253-7-4, pp. 736-740.

Giresse M. Komba, Okuthe P. Kogeda, and T. Zuva, A New Gateway Location Protocol for Mesh Networks, Proceedings of the World Congress on Engineering and Computer Science 2014, Vol II, WCECS 2014, 22-24 October 2014, San Francisco, USA, ISBN: 978-988-19253-7-4, pp. 713-718.

Moses O. Olaifa, Sunday O. Ojo, Tranos Zuva, An Optimal Health Service Discovery for Ubiquitous Health Service Provisioning, Proceedings of the IASTED International Conference Health Informatics (AfricaHI 2014), September 1 - 3, 2014 Gaborone, Botswana, DOI: 10.2316/P.2014.815-011, ISBN: 978-0-88986-970-7, pp. 262-269.

Omotayo Ganiyu Adewumi, Tranos Zuva and Seleman Medson Ngwira, Simulation and Calibration of RSSI based Distance Estimation for Localization in WSN, Proceedings of the IASTED International Conference Health Informatics (AfricaHI 2014), September 1 - 3, 2014 Gaborone, Botswana, DOI: 10.2316/P.2014.815-011, ISBN: 978-0-88986-970-7, pp. 124-131.

Willem Grobler, Seleman Ngwira, Tranos Zuva, Predicting road crashes with mobile devices using the line intersection technique, Proceedings of the IA STED International Conference Health Informatics (AfricaHI 2014), September 1 - 3, 2014 Gaborone, Botswana, DOI: 10.2316/P.2014.815-011, ISBN: 978-0-88986-970-7, pp.169-175.

Olusanya Yinka Agunbiade, Seleman Madison Ngwira and Tranos Zuva, Optimized drivable path detection system for autonomous vehicle in rain condition, Proceedings of the IA STED International Conference Health Informatics (AfricaHI 2014), September 1 - 3, 2014 Gaborone, Botswana, DOI: 10.2316/P.2014.815-011, ISBN: 978-0-88986-970-7, pp. 176-183.

Omobayo A. Esan, Tranos Zuva, Seleman Ngwira and Moses Olaifa, 3-D medical image region-growing based segmentation techniques, challenges and open issues, Proceedings of the IA STED International Conference Health Informatics (AfricaHI 2014), September 1 - 3, 2014 Gaborone, Botswana, DOI: 10.2316/P.2014.815-011, ISBN: 978-0-88986-970-7, pp. 299-303.

Omobayo A. Esan, Tranos Zuva, Selema Ngwira, Lerato Masupa, Mitigating face biometrics on electronic medical record, Proceedings of the IA STED International Conference Health Informatics (AfricaHI 2014), September 1-3, 2014 Gaborone, Botswana, DOI: 10.2316/P.2014.815-011, ISBN: 978-0-88986-970-7, pp. 270-276.

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

T. Zuva, O.A Esan, and S.M Ngwira (2014), Hybridization of Bimodal Biometrics for Access control Authentication, 6th International Conference on Future Networks (ICFN 2014), June 14-15, ISSN: 2010-3700 (Online), Hong Kong, pp. 228-234.

Tranos Zuva and Keneilwe Zuva (2014), Generic Service Location Discovery Recommender System for Mobile Users, 6th International Conference on Future Networks (ICFN 2014), June 14 – 15, Hong Kong, ISSN: 2010-3700 (Online); pp. 211-227.

O. A. Esan, S.M. Ngwira, T. Zuva (2014), Bimodal Biometrics for Health Care Infrastructure Security, International Multi-conference of Engineers and Computer Scientists (IMECS2014), 12-14 March, 2014, Hong Kong, ISBN: 978-988-19252-5-1 ISSN: 2078-0958 (Print); ISSN: 2078-0966 (Online) pp. 117-122

Olusanya Y. Agunbiade, Tranos Zuva, Seleman M. Ngwira (2014), Performance of Drivable Path Detection System of Autonomous Robots in Rain and Snow Scenario, Proceedings of 2014 IEEE International Conference on Signal Processing and Integrated Networks (SPIN), 20-21 February 2014, Amity University, Noida, Delhi-NCR, India, IEEE ISBN 9781479928668 (Print) 9781479928651 pp. 679-684

O. A. Esan, S.M. Ngwira, T. Zuva (2013), Survey of fingerprint enhancement methods, challenges and open issues, Proceedings of International Conference on ComNet CIIT&ITC (2013) Elsevier, 08-09 November, 2014, Hyderabad, India, ISBN: 978-81-910691-6-3, pp. 768-773

Ngwira Seleman, Randle O.A and Zuva T, (2013), An Analysis of Minimax Search and Endgame Databases in Evolving Awale Game Player, Third International Conference on Computer Science & Information Technology (CCSIT 2013), Feb 18~20, Bangalore, India, ISBN : 978-1-921987-00-7, pp. 383–387

Keneilwe Zuva, Tranos Zuva, Mapoka Kenneth O. M., (2013), Open Cloud Computing with Fault Tolerance, International Conference on Computer Science, Engineering & Technology (ICCSSET), 20-21 June 2013, Toronto, Canada, pp 2039-2042

Tranos Zuva, Seleman M. Ngwira, Sunday O. Ojo, Keneilwe Zuva, (2013), Performance comparison of non-parametric image retrieval techniques, Proceedings of 2013 IEEE World Congress on Computer and Information Technologies WCCIT'13, 22-24 June 2013, Sousse, Tunisia, 2013 IEEE ISBN: 978-1-4799-0460-0 (Print) 978-1-4799-0462-4 (Online), pp 202-207.

Keneilwe Zuva, Tranos Zuva, Abiodun Modupe, Agnieta Pretorius and Trust T Mapoka, (2012), Effective and Efficient (Dis)similarity and Retrieval Algorithms Used to Access Large Image Databases, International Conference on Computer Science, Engineering & Technology (ICCSSET), 2-3 June 2012, Zurich, Switzerland, pp 134-142.

Tranos Zuva, Oludayo O. Olugbara, Sunday O. Ojo and Seleman M. Ngwira (2012), Introducing an Adaptive Kernel Density Feature Points Estimator for Image Representation, International

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

Conference on Computer Science, Engineering & Technology (ICCSET), 2-3 June 2012, Zurich, Switzerland, pp 129-133.

Tranos Zuva, Oludayo O. Olugbara, Sunday O. Ojo and Seleman M. Ngwira (2012), Enhanced Density Histogram of Feature Points Representation Method, International Conference on Information Retrieval & Knowledge Management (CAMP 12), 13~15 March 2012, Kuala Lumpur, Malaysia, pp. 209-213

Tranos Zuva, Oludayo O. Olugbara, Sunday O. Ojo and Seleman M. Ngwira (2012), Object Shape Representation by Kernel Density Feature Points Estimator, First International workshop on Signal and Image Processing (SIP 2012) January 3~ 4, 2012, Bangalore, India, pp.209-216

Tranos Zuva, Keneilwe Zuva and Queen M. Sello (2011), Novel Image Representation and Description Technique using Density Histogram of Feature Points, International Conference on Information and Communication Technologies and Applications ICTA 2011 Jointly with The 17th International Conference on Information Systems Analysis and Synthesis: ISAS 2011, November 29th - December 2nd, 2011 – Orlando, Florida, USA, pp. 23-27.

Tranos Zuva, Oludayo O. Olugbara, Sunday O. Ojo and Seleman M. Ngwira (2011), Image Shape Representation and Description Techniques, Classification of Available Techniques and Open Issues, Proceedings of 2011 IEEE International Conference on Intelligent Computing and Intelligent Systems (ICIS 2011) November 18-20, Guangzhou, China, pp. 186-191.

Tranos Zuva, Oludayo O. Olugbara, Sunday O. Ojo and Seleman M. Ngwira (2011), A Review of Image Segmentation Techniques, Challenges and Future Directions, International Conference on Materials Science and Computing Science (MSCS 2011) August 13-14, Wuhan, China, ISSN: 1022-6680.

T. Zuva, T. Taukobong, K. Mapoka (2007), *Student Acceptance and Usage of WebCT* at the University of Botswana: Conference of the Southern Africa Computer Lecturers' Association (SACLA), Victoria Falls, Zimbabwe, 3rd – 6th July 2007. ISBN 976-0-7974-3466-0

T. Zuva, S.D Asare, B. Gopolang, G.Deept, B. Awuah, D. Mpoeleng (2007), *Current Trends in the use of Mobile Handset Phones for Health issues* in Gaborone, Botswana: Conference of the Southern Africa Computer Lecturers' Association (SACLA), Victoria Falls, Zimbabwe, 3rd – 6th July 2007. ISBN 976-0-7974-3466-0

T. Zuva, K. Mapoka, *Business Organizational Structure in danger of collapse due to technology/ies influence*: International Science and Technology Conference 2006 (ISTC 2006), South Africa, 28th – 30 November 2006, Vaal University of Technology. ISBN: 1-77012-013-0

T. Zuva, B. Gopolang, *Intelligent Design of Local Area Network: "The International Association of Science and Technology for Development"* IASTED International Conference, Gaborone, Botswana, 11th -13th September 2006, ISDN 0-88986-618-X, pp 311-314.

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

T. Zuva, K. Mapoka, Simulation As A Teaching Tool - *Sharing Experience In Teaching Computer Networks Practicals*: 35th Conference of the Southern Africa Computer Lecturers' Association (SACLA), Cape Town, South Africa, 25th – 27th June, 2006, ISDN 0-620-36150-6, pp 28-30.

T. Zuva, B. Gopolang, *Influence of local area network technology advances in local area network design*: 35th Conference of the Southern Africa Computer Lecturers' Association, Kasane (SACLA), Botswana, 3rd – 6th July 2005, ISBN 99912-572-4-1, pp 8-15

T. Zuva, G. Mosweunyane, K.G. Dibetso (2005), *Using VLANs to revolutionize the organizational structure*: 35th Conference of the Southern Africa Computer Lecturers' Association (SACLA), Kasane, Botswana, 3rd – 6th July 2005, ISBN 99912-572-4-1, pp 21-33

Tranos Zuva, Fred Mampadi (2004), *1-Fault Tolerant Hierarchical Local Area Network*. 2004 International Science and Technology Conference, South Africa, 1-2 December 2004

P. Flocchini, L. Pagli, G. Prencipe, N. Santoro, P. Widmayer, T. Zuva (2004), *Computing All the Best Swap Edges Distributively*. Submitted for the OPODIS 2004: 8th International Conference on Principles of Distributed Systems, Grenoble, France, 15-17 December 2004, pp 1-12

Linda Pagli, Giuseppe Prencipe, Tranos Zuva (2004), *“Distributed Computation for Swapping a Failing Edge”*. 6th International Workshop on Distributed Computing, Kolkata, India (IWDC 2004), 27-30 December 2004. Editors: Arunabha Sen, Nabanita Das, Sajal K. Das, et al. ISBN: 3-540-24076-4, pp 1-15.

Conferences, Workshops & Seminars Attended

- Attended “Publishing Ethics: Excellence in peer review: How to be an effective Peer Reviewer.” On webinar on the 25th September 2023.
- Invited to speak at Central University of Technology, Free State about “Increasing throughput of doctoral graduates in an UoT environment: Role of a full-time research professor” 25 November 2022.
- Attended “Burden reduction 21st Century cures final rule and the impact of COVID-19” presented by Andrew Gettinger, hosted by Harvard Clinical Informatics Lecture Series, on 02 March 2021 (Online/ Virtual: via Zoom)
- Attended “Telehealth Use Before and During the COVID-19 Pandemic” presented by Shira Fischer, hosted by Harvard Clinical Informatics Lecture Series, on 09 February 2021 (Online/ Virtual: via Zoom)
- Attended “Digital Contact Tracing”, hosted by Harvard Clinical Informatics Lecture Series, on 26 January 2021 (Online/ Virtual: via Zoom)
- Attended "Economic Time Series Modelling in MATLAB", hosted by Opti-Num Solutions (Pty) Ltd, Malavika Nathan, on 2 December 2020 (Online: Webinar).

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

- Attended Blockchain SIG: Bitcoin Mining Demystified, hosted by IITPSA KZN, John Singh, Wednesday, November 25 2020 (Online: Webinar)
- Attended Blockchain SIG: A gentle introduction to bitcoin cryptography math, hosted by IITPSA, John Singh, Wednesday, October 28 2020 (Online: Webinar)
- Organized an IEEE conference “The International Multidisciplinary Information Technology and Engineering Conference (IMITEC 2019)” held at Emerald Resort & Casino, Vanderbijlpark, 21-22 November 2019.
- Attended SATN SOUTH AFRICAN /IRISH COLLQUIUM Thematic Area: Space Science, Innovation Hubs and ICT held on 14 – 18 October 2019 at Elangeni Hotel, Durban.
- Attended Design Expert workshop, 26 and 27 June 2019 at Quest conference centre Vandebijlpark
- Attended SPSS & Amos workshop at Quest Conference Centre, Vanderbijlpark, 5 - 14 November 2018.
- Organized workshop for The Distinguished Visitors Program (IEEE), speaker: Prof. Quintana, Yuri, held at Vanderbijlpark, Quest Conference Centre, 26 November 2018.
- Attended ATLAS.TI workshop at Quest Conference Centre, Vanderbijlpark ,21 – 22 May 2018
- Workshop on Ethics in Scholarly Publishing organized by Council of Higher Education (CHE) at Albert Luthuli Auditorium, NRF, Pretoria, 11 April 2018.
- Workshop on Promoting the ICT Professional organized by Institute of Information Technology Professionals at VUT ICT boardroom, Vanderbijlpark, 10 April 2018.
- Workshop on job insecurity in higher education institutions hosted by Optentia (NWU) at Lords Signature Hotel on 1 December 2017.
- The academic of 2017, Future realities, hosted by VUT at Emerald Resort & Casino, Vanderbijlpark, 14-16 November 2017.
- Seminar entitled: The future of community engagement re-imagined, hosted by Vaal University of Technology, 16 August 2017.
- Attended Short Term Course under Continuing Education Programme on International Finance hosted India Institute of Technology Delhi, Department of Management Studies, Hauz Khas, New Delhi 19-25 April 2017.
- Seminar entitled: ‘Strengthening Postgraduate Supervision’ Hosted by the Netherland Organization for International Cooperation in Higher Education and Higher Education & Training South Africa, 27 March 2017.
- SEMINAR entitled: “Contemporary discussion cases from Africa: Transforming society using ICT” hosted by the ICT4D Flagship at the University of South Africa, 23 August 2016
- 4 C Leadership workshop 29-30 May and 11-12 June 2014 – Tshwane University of Technology
- Teaching, Learning and Technology Strategy for TUT workshop 28 May 2014 at FNB
- Assessment and Moderation in Higher Education (Short Learning Programme)- Tshwane University of Technology (Curriculum Development and Support Department), May 2013
- Mobile Programming using Android Training Workshop-Tshwane University of Technology, June 2012
- First International ICT Security Workshop 2011-Tshwane University of Technology, October 2011.

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

- Embedded Software Training-Telkom Training Centre, October 2010
- Academic Writing Strategies- Tshwane University of Technology, June 2010
- Curriculum Development and Support – Tshwane University of Technology, March 2010
- Integration of HIV and AIDS into curriculum-Faculty of Science workshop, University of Botswana, 6/3/2007
- Health and Wellness Centre and Society Against HIV/AIDS (SAHA)’s workshop on Consistent and correct condom use: a better choice to keeping the promise, Botswana, 6/3/2007
- The Volition Cabling Solutions Seminar (02/2004)
- University of Botswana- Computer Science Department.
- RINAF Internet node operator’s course (08/98)
- Using the Web Technology, UNESCO (04/99)
- Zimbabwe-World Links for Development (WorLD) Seminar (Schoolnet-Zimbabwe, 10/99)
- Participated in the UNESCO Project (Connecting Colleges in Zimbabwe on the Web) 1996-1999
- Presented a seminar “A distributed algorithm for fault-tolerant routing” 18/02/2004
- Presented a Seminar “Design of Local Area Networks” at Midlands State University (2001)

Web Based Lecture Notes

Tranos Zuva (2020-current), Research Methodology for Information Systems

https://vut.blackboard.com/webapps/blackboard/execute/modulepage/view?course_id= 36593_1 &cmp_tab_id= 92544_1&mode=view

Tranos Zuva (2016-current), Advanced Information Technology Auditing Management IV

https://vut.blackboard.com/webapps/blackboard/execute/modulepage/view?course_id= 1831_1 &cmp_tab_id= 2306_1&editMode=true&mode=cpview

Tranos Zuva (2012-current), Hardware Design IV

http://mytutor.tut.ac.za/webapps/portal/frameset.jsp?tab_tab_group_id= 2_1

Tranos Zuva (2012-current) , Computing Systems IA

http://mytutor.tut.ac.za/webapps/portal/frameset.jsp?tab_tab_group_id= 1_1

Tranos Zuva (2012-2013), Computer Operating Systems IV

http://mytutor.tut.ac.za/webapps/portal/frameset.jsp?tab_tab_group_id= 2_1

Tranos Zuva (2003), Computer Communications Networks

http://webct.ub.bw:8900/SCRIPT/CSI461zuvat/scripts/serve_home

Tranos Zuva (2004), Computer Organization

http://webct.ub.bw:8900/SCRIPT/CSI261zuvat/scripts/serve_home

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

Tranos Zuva (2004), Computer Communications Networks
(http://webct.ub.bw:8900/SCRIPT/CSI272zuvat/scripts/serve_home)

University Service

2017-Current Member of Faculty Community Service Coordinating team
2023-current Member of Internationalisation Committee
2016-Current Member of Faculty Research and Innovation Committee (FRIC)
2016-current Member of Vaal University of Technology Senate
2016-current Member of Departmental Research and Innovation Committee (DRIC)
2016-current Member of Faculty Higher Degree Committee (FHDC)
2013-to 2015 Member of Information and Communication Technology Research Ethics (FREC)
2012-to 2015 Member of university sub-committee of the Central Research and Innovation Committee (CRIC)
2012-to 2015 Acted Head of Department in Computer Systems Engineering
2014 to 2015 Member of Faculty Research and Innovation Committee
2014 to 2015 Member of Faculty Board
2013 to 2015 Chairman of Departmental Research and Innovation Committee
2012-2015 Member of Departmental Research and Innovation Committee (DRIC)
2003-2007 Timetable Coordinator in Computer Science Department
2003-2007 Coordinator of Computer Science Departmental Handbook Production
2003-2007 Personal Tutor for 20 students
2003-2007 4th year co-coordinator of Computer Science degree programme
2005-2007 Research and Seminar co-coordinator in the department
2004 Organized a Seminar for a visiting scholar in the Computer Science Department

Professional Service

2024-Current Committee Member of IITPSA - Gauteng Chapter
2024-Current Head of Health and Safety in the Computer Sciences Department
2023 University program eternal reviewer- subject matter experts to conduct institutional and programmes assessments in Eswatini- University of Eswatini (UNESWA)
2023 University program eternal reviewer- CUT's Institutional Planning and Quality Enhancement (IPQE) Section- Central University of Technology, Free State
2022 University program eternal reviewer- appointment as Programme Reviewer in the School of Natural and Applied Sciences at Sol Plaatje University
2021 Member of TPC International Conference on Artificial Intelligence and its Applications ICARTI 2021
<http://mauricon.org/icarti/index.php/committees/>

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

- 2021 Member of London Journals Press, membership ID: UE59973
<https://journalspress.com/computing-journals/interdisciplinary-and-ic-engineering>
- 2020 Member of TPC of ITNAC 2020: 30th International Telecommunication Networks and Application Conference (ITNAC), EDAS identifier: 1411099
<https://itnac.org.au/2020/committee>
- 2020 University program eternal reviewer- Catholic University of Zimbabwe Bachelor of Education (Honours) Degree in Science and Technology ((BEdScTech)
- 2019-Current Member of Publication Integrity & Ethics (PIE)
<http://www.integrity-ethics.com/publication-integrity-and-ethics-about/>
- 2017-Current Member of IAENG (International Association of Engineers): membership number: 195823
- 2016 Session Chair of 2016 Third International Conference on Advances in Computing, Communication and Engineering (ICACCE 2016), Durban, South Africa, 28-29 November 2016.
- 2016-current Member of IEEE (Institute of Electrical and Electronics Engineers): Membership number: 94058552.
- 2016-current Member of IITPSA (Institute of Information Technology Professionals South Africa): membership number: Z061654
- 2016-current Program Committee Member of Sixth International Conference on Computer Science and Information Technology (CCSIT - 2016) January 2-3 Zurich, Switzerland: <http://ccsit2015.org/program.html>
- 2015-current Member of American Journal of Circuits, Systems and Signal Processing Editorial Board:
<http://www.publicscienceframework.org/journal/editorialboard/ajcssp.html>
- 2014-current Senior member of International Association of Computer Science and Information Technology (IACSIT) Membership Number: 80348742, <http://www.iacsit.org/>
- 2013-current Member of Advisory/Editorial Board of International Journal of Recent Development in Engineering and Technology, INDIA, <http://www.ijrdet.com/editorial.php> (ISSN 2347 - 6435 (Online).
- 2013-current Member of Editorial Board Members of Proceedings Engineering & Technology (PET) (ISSN : 2356-5608) <http://ipco-co.com/PET.html> (International Publisher & C.O_)
- 2014-current Member of the Program Committee Member of the “The Second International Conference of Information Technology, Control and Automation (ITCA-2014)”
<http://coneco2009.com/2014/itca/index.html>
- 2012-current Member of the editorial board of the International Journal of Scientific Research & Engineering Technology (IJSET)
<http://www.imagodezign.com/ipcoco/Editorial%20Board2.html>
- 2012- current Member of the editorial board of The International Journal of Multimedia & Its Applications (IJMA) (<http://airccse.org/journal/Editorialboard.html>)
- 2013 Member of the International Program Committee of International Conference on Control, Engineering & Information Technology (CEIT'13) <http://ipco-co.com/program.html>

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

- 2012-Current Member of the editorial board of International Journal of Chaos, Control, Modelling and Simulation (IJCCMS) ISSN : 2319 - 5398 [Online] ; 2319 - 8990 [Print] <http://airccse.org/journal/ijccms/editorial.html>
- 2019-current Program Committee Member of 7th International Conference on Instrumentation and Control Systems (CICS 2019), Copenhagen, Denmark.
<https://cse2019.org/cics/index.html>
- 2019-current Program Committee Member of International Conference on Instrumentation and Control Systems (IC2S2019), April 27 -28, 2019, Dubai,UAE.
<http://flyccs.com/Conferences/April/IC2S/Committee.html>
- 2019-current Program Committee Members of Third International Conference of Artificial Intelligence & Fuzzy Logic (AIFL -2015), Coral Deira - Dubai, Deira, Dubai
<http://iidco.org/2015/aifl/index.html>
- 2019 Technical Programme Committee member of International Telecommunication Networks and Applications Conference (ITNAC 2019)
<https://itnac.org.au/2019/registration>
- 2000- current Member of Southern African Computer Lecturers Association (SACLA)
- 1996- current Member of Computer Society of Zimbabwe
- 2005 Member, the Editorial Committee: World Information Technology Forum, Gaborone, Botswana
- 2004 Resource Person for writing a chapter for Adult Distance Education Programme
- 1998 Trainer: Commonwealth In-house Training Programme on Information Technology for Manufacture
- 1997-2000 Setting and moderation of examinations for State Colleges in Zimbabwe
- 1999 Statistical analysis of U.N data related to Better Schools Project

External Examiner

- 2024-todate Central University of Technology (CUT)
<https://www.cut.ac.za/>
- 2021-todate University of Fort Hare (Postgrad)
<https://www.ufh.ac.za/>
- 2023-todate University of the Western Cape (Postgrad: Masters and Doctoral)
<https://www.uwc.ac.za/>
- 2021-todate University of the Witwatersrand (School of Public Health)
<https://www.wits.ac.za/>
- 2020-todate University of Zimbabwe (UZ) (Postgrad)
<https://www.uz.ac.zw/>
- 2018-todate University of South Africa (UNISA) (Postgrad: Masters and Doctoral)
<https://www.unisa.ac.za/sites/corporate/default>
- 2017-todate Botswana International University of Science and Technology (BIUST)
(Postgrad: Masters and Doctoral)
<https://www.biust.ac.bw/>
- 2016-todate University of KwaZulu Natal (UKZN) (Postgrad: Masters and Doctoral)

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

2012-todate <https://ukzn.ac.za/> University of Venda, Computer Science (Undergrad & Postgrad)
2012-todate <https://www.univen.ac.za/> University of Johannesburg, ICT (Undergrad & Postgrad)
<https://www.uj.ac.za/>

Design and Development of Web Sites

2002 Midlands State University- Computer Science Department

NON-TEACHING EXPERIENCE

- Experienced in IT support; supporting internal and external users
- Supported GSK users around the world (external users) (Europe, North America, Asia and Australasia, Southeast Asia and Africa) through Tele-IT Customer Service (Telephone, Sametime, Remote Assistance, Chat). GSK a company that employs around 99 000 people in over 100 countries.
- Supported Ministry of Education users (internal users) through face-to-face Customer Service within a department.
- Experienced in providing good customer service (I am able to listen, use the phone, deal with complaints, make promises that I keep, very helpful, take extra step in trying to satisfy the customer)
- Installed and configured hardware and software (approximately 50 users)
- Helped customers/clients with IT usage queries
- Oversaw, maintained and provided troubleshooting for Local Area Networks (LAN)
- Maintained database of network equipment inventory
- Prepared the yearly IT departmental budget

Community Service/Community Activities

- 24 September 2018 participated in 19 km Trail run at South East Shopping Centre, Vanderbijlpark, Gauteng.
- 8th July 2018 participated in Vaal University of Technology GET IT TO THE BIN: Cleaning Campaign, Vandebijlpark, Gauteng.
- 2016-todate: ICT Department Community Service: Sedibeng Children's Haven, Vereeniging, SA
- 2003-2006: An Active member of Cancer Association of Botswana
- 2003-2006 Gaborone City Council Non-Motorized Transport Project-member

MOUs

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

- MEMORANDUM OF COOPERATION between State Budgetary Institution of Moscow "Moscow Agency of Innovations" and Vaal University of Technology (VUT), South Africa
- MEMORANDUM OF UNDERSTANDING between Vaal University of Technology and Chandigarh University
- MEMORANDUM OF UNDERSTANDING between Vaal University of Technology and Suncrest High School
- MEMORANDUM OF UNDERSTANDING between Vaal University of Technology and Kibabii University (KIBU)

Awards

- 2nd place Researcher of the Year 2022 in faculty research awards (Excellence Category) (Faculty of Applied and Computer Sciences).
- 1st Place in faculty research awards (Excellence Category) 2020 (Faculty of Applied and Computer Sciences).
- Recipient of GeeKulcha Student Society 2019 Awards (GKSS2019 Awards) certificate for Best Support member of a department supporting and helping to enable access for the GKSS chapters.
- 2nd place Researcher of the Year 2019 in faculty research awards (Excellence Category) (Faculty of Applied and Computer Sciences).
- MBA Continuing High Performance award (Second Year Student) (2016)
- MBA Top Subject Achiever award (Organizational Behaviour) (2015)
- MBA Top Subject Achiever award (Managerial Finance) (2015)
- MBA Top Achiever award (First Year Student) (2015)
- TUT Academic Excellence Award (2012)

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

References

Dr Anneke Harmse
Head of Department (Acting)
Department of Information & Communication
Technology
Vaal University of Technology
t +27 (0)16 950 9836
f +27 (0)16 950 9497
anneke@vut.ac.za

Dr A. Masizana (Head of Department)
Department of Computer Science
University of Botswana
P Bag UB 00704, Gaborone, Botswana
Phone: + 267-355-2131
MASIZANA@mopipi.ub.bw

Dr Linda Lunga Sibali
Chair of Department
Environmental Sciences
School of Ecology and Human Sustainability
College of Agriculture and Environmental Sciences
UNISA
Phone:+27 082 926 6246/011 471 2645
sibalill@gmail.com,
sibalill@unisa.ac.za

Dr Rene Van Eck
Department of Information & Communication
Technology
Vaal University of Technology
t +27 (0)16 950 9792
f +27 (0)16 950 9497
rene@vut.ac.za

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

Statement of Teaching Philosophy

I am teacher at heart and then by profession. I view my role as a teacher as one of transferring fundamental knowledge of course content to students while cultivating their critical thinking skills through the application of theory and concepts to current industrial related issues. It is important to create a holistic person by being a role model in classroom and in the community, advising and mentoring students.

I endeavour at all times to present my subjects in a way that interest my students, clarify difficult topics and lead them through complex areas, and put knowledge into context so that its relevance is apparent. I view myself primarily as a facilitator of learning, rather than as an expert who simply delivers information to students. When planning a curriculum or interacting with students, I am always conscious of their different learning styles and rates, what they have already learned and what they will need to learn in the future. I believe that learning becomes interesting if there is movement from the known to the unknown. Feedback is a very important process in education for it allows me to evaluate myself and listen to my students' views. I learn from them, for example, the pacing of lectures, and their understanding of the subject matter. This allows me to adjust my teaching strategies in response to the pace and depth of student understanding.

Personal contact with students is essential to my approach. Many need encouragement to talk to their teachers, so I emphasize my availability for informal discussion and my willingness to help them sort out any problems they have with what they are learning. My experience as a teacher is greatly enriched by this interaction with students.

As I gained experience and confidence as a teacher, I came to regard teaching as my primary professional responsibility. I have begun to do collaborative research with my peers and students.

Finally, the goal of teaching is to produce a holistic person from my students through the teaching-learning process.

Research Statement

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

-Prof. Tranos Zuva

tzuva@hotmail.com

Due to my academic background I am motivated to explore new areas of research in computer science. My research interest covers a wide range of areas such as computer vision, recommender systems, distributed computing and information technology. The wide range of research interests and activities help to consolidate my firm philosophy that research and teaching complement each other to the benefit of the student.

My primary research interest is on computer vision in e-commerce, medical imaging, robotics and biometrics. During my D. Tech. research “Image Content in Shopping Recommender System for Mobile Users” we investigated how best to recommend shopping items to mobile users using external image captured by a camera. The system we developed was able to recognise shop items captured under different conditions. In this research shape content was used in identifying the shop items using an adaptive non-parametric algorithm in 2-dimension. In this research we demonstrated the significance of the theory of shapes in object detection. My research in this area is now concentrated in 3-dimensional shapes. We are already researching in visual recognition systems for autonomous vehicles. This research entails determining whether familiar information is present within an image (e.g. pre-conceived object or event). This also includes determining whether two images of a scene represent the same scene or whether an event has occurred in a time-varying image. The real task in object recognition is comparing known objects to objects extracted from an image of interest. Application of computer vision in biometric systems for personal identification and verification is very important. Our research in this area is to enhance identification and verification of individuals using the traditional (2-D) biometrics while at the same time venturing into 3-D biometrics. For example 3-D facial modelling promises to enhance recognition performance because it can be used to recognise people in profile as opposed to a typical forward-looking, mug-shot pose. This is the future direction of our research in this area of biometrics.

My secondary research interest is on distributed computing in particular fault tolerant systems. In information security I am concentrating on group key management protocols for secure multicast networks. My publications can be seen from my CV.

Leadership Statement

I believe in ethical, effective and transformational leadership qualities which starts with the development of a vision with a capability to excite and convert potential followers. The vision may be developed through a leader, a senior team or may emerge from a series of discussions. The next step of transformational leadership is to sell the vision to stakeholders.

Private Bag X021
Andries Potgieter Blvd
Vanderbijlpark, 1911
South Africa

Prof. Tranos Zuva
ORCID iD: 0000-0001-9579-3899
IEEE: 94058552
IITPSA: Z061654
ResearcherID: Q-2252-2016

cell: +27-787-213319
Work: +27-16-950-7587
tranosz@vut.ac.za
tzuva@hotmail.com

This type of leadership constantly creates followers through personal leadership characteristics of integrity, competence, responsibility, accountability, fairness and transparency. It takes a lot of energy and commitment to get everyone to immediately accept a vision as some people take more time to appreciate and understand than others. Change is not something that people can easily embrace.

This leadership style requires one to be results-driven that is achieving strategic objectives and positive outcomes. The leadership remain up-front, visible and central during the action. The leadership show by their attitudes and actions how everyone else should behave. They also make continued efforts to motivate and rally their followers, constantly doing the rounds, listening, soothing and enthusing.

Overall, ethical, effective and transformational leadership balances attention between action that creates progress and the mental state of followers. It is people-oriented and believes that success comes through deep and sustained commitment. Change is constant thus ethical, effective and transformational leadership is always relevant.