

2019 Open Innovations Conference

Dates: 2 - 4 October 2019

Venue: Engineering Building, Cape Peninsula University of Technology
(CPUT), Cape Town

Physical Location: District 6, Cape Town Campus
Keizersgracht St, Zonnebloem

SESSION 1: WEDNESDAY, OCTOBER 2, 2019

08:00 – 13:00	Registration – Foyer of Theatre 9 (Next to Engineering Building)
	Programme Director: Prof. Tiko Iyamu, Research Professor, CPUT Opening Remarks: Conference Chair: Prof. Nixon Muganda Ochara, University of Venda & University of Witwatersrand, South Africa
BECOMING A RESEARCHER TIME: 09:00 – 13:00 VENUE: A	POSTGRADUATE COLLOQUIUM TIME: 09:00 – 15:00 VENUE: B
Prof. Jeanna Matthews – International Keynote Speaker, ACM Distinguished Speaker, Clarkson University	Prof. Tiko Iyamu, Research Professor - CPUT

SESSION 2: THURSDAY, OCTOBER 3, 2019 Venue: Theatre 9 (CPUT)

08:00 – 09:00	Registration – Foyer of Theatre 9 (Next to Engineering Building), CPUT, District 6 Campus
09:00 – 10:45	Programme Director: Dr. Boniface Kabaso, HoD, Department of IT, CPUT Opening Remarks: Conference Co-Chair: Prof. Tiko Iyamu, Research Professor, Cape Peninsula University of Technology, Cape Town, South Africa Welcome Remarks: Dean – Faculty of Informatics & Design, CPUT, South Africa Scene Setting: Innovation Illustration: Zahied Mukaddam: Wheelchair Design – A Context Perspective National Keynote Address: 4IR and Digital Skills: The Urgency for Open Innovation Prof. Hosanna Twinomurinzi, Professor, School of Computing, University of South Africa

MORNING: THURSDAY, 3RD OCTOBER 2019: PARALLEL SESSIONS

<p>SESSION 3 <i>: Computing & Data Sciences</i> VENUE: Theatre 9 TIME: 11:00 – 13:00 SESSION CHAIR: Prof. Olawande Daramola, Cape Peninsula University of Technology</p>	<p>SESSION 4: Mechatronics & Industrial Engineering VENUE: Theatre 8 TIME: 11:00 – 13:00 SESSION CHAIR: Prof. Hossana Twinomurinzi, University of South Africa, South Africa</p>	<p>SESSION 5: Information Systems & Analytics VENUE: Theatre 4 TIME: 11:00 – 13:00 SESSION CHAIR: Dr. Willard Munyoka, University of Venda, South Africa</p>
<p>1 1901: An Efficient Resource Allocation Algorithm for Heterogeneous Wireless Networks T. E. Mathonsi; T.M. Tshilongamulenzhe; B.E. Buthelezi Department of Information Technology, Tshwane University of Technology, Pretoria, South Africa</p>	<p>1 1905: Evaluation of Hydrogen Yield by Hydrolysis from Waste Magnesium Based Materials Catalyzed by Stainless Steel Net in Iron Chloride Solution V.T. Hashe & Tien-Chien Jen Department of Mechanical and Industrial Engineering, University of Johannesburg, South Africa</p>	<p>1 1912: The ineffectiveness of technology adoption models in the 4IR era: A case of SMEs in South Africa Edzai Kademeteme & Hossana Twinomurinzi School of Computing; University of South Africa Johannesburg, South Africa</p>
<p>2 1909: Building Concept Hierarchies for the Internet of Things Patterns Using Domain-specific Dependency Knowledge Vusi Sithole & Linda Marshall; Department of Computer Science, University of Pretoria, South Africa</p>	<p>2 Paper 1915: Intercritical Annealing Temperature: Influence on the Mechanical Properties of Low Alloy Dual-Phase Fe/0.08C/0.4Mn Steel. Olakunle Anthony Ogunmefun (Tshwane University of Technology), Rotimi Sadiku (Tshwane University of Technology), Babatunde Obadele (University of Johannesburg), Tamba Jamiru (Tshwane University of Technology), Emmanuel Olorundaisi (Tshwane University of Technology)</p>	<p>2 1923: Factors influencing digital government adoption in Zimbabwe Willard Munyoka Dept. of Business Information Systems, University of Venda, South Africa</p>

3	<p>1975: Internet of Things Research & Development: What Will Work for Africa? Muthoni Masinde Department of Information Technology, Central University of Technology, South Africa</p>	3	<p>1924: Simulation of second-order velocity slip of magnetohydrodynamic (MHD) flows Thokozani Kunene & Lagouge Tartibu Mechanical and Industrial Engineering Technology Department, University of Johannesburg, South Africa</p>	3	<p>1911: Big Data for Small Business Sara Salih & Kennedy Njenga Department of applied information system; University of Johannesburg; South Africa</p>
4	<p>1967: Designing a Cloud-native Weigh In-Motion Sivaramalingam Kirushanth & Boniface Kabaso Department of IT, Cape Peninsula University of Technology, Cape Town, South Africa 2Department of Physical Science, Vavuniya Campus of the University of Jaffna, Vavuniya, Sri Lanka,</p>	4	<p>1921: Development and performance evaluation of a standing-wave thermo-acoustic engine S. Spambo, M. Ngcukayitobi, H. Shamase, S. Gqibani & L. K. Tartibu Mechanical and Industrial Engineering Technology Department, University of Johannesburg, South Africa</p>	4	<p>1949: Structuration Theory-Based Conceptual Framework Towards Improving Healthcare Services K. Nunu, I. Shaanika, M. Mutudi, T. Iyamu Department of Information Technology; Cape Peninsula University of Technology, South Africa</p>
5	<p>1942: An Exposition of a Lightweight Domain-specific Ontology for the Interoperability of the Internet of Things Patterns Vusi Sithole & Linda Marshall; Department of Computer Science, University of Pretoria, South Africa</p>	5	<p>1968: Prospective Electro-hydraulic Control System for a Collaborative Humanoid Robot Teboho Ntsinyi & Elisha Didam Markus Department of Electrical, Electronic and Computer Engineering Lebohang Masheane, Department of Mechanical Engineering Central University of Technology; Central University of Technology, South Africa</p>	5	<p>1991: A Cloud Computing Adoption Model for the South African Police Services (SAPS) T. Ngqondi, M. Bembe, H. Mauwa School of Computing & Mat. Sciences; University of Mpumalanga; South Africa L. Kalipa, Department of Information Technology, Walter Sisulu University East London, South Africa</p>
6	<p>1902: Performance optimization of wireless sensor networks T.M. Tshilongamulenzhe; T. E. Mathonsi; M. I. Mphahlele & D.P. DuPlessis Department of Information Technology, Tshwane University of Technology, Pretoria, South Africa</p>	6	<p>1959: Design Development of Transnet Pressure Vessel to Mitigate the Problems of Welding Misalignment N.V. Chauke, D.V.V. Kallon, T. Kunene Mechanical and Industrial Engineering Technology Department, University of Johannesburg, South Africa</p>	6	<p>1946: A comparative analysis of e-governance and IT governance M. Nehemia, T. Iyamu, I. Shaanika Department of Information Technology; Cape Peninsula University of Technology, South Africa</p>

LUNCH: 13:00 – 14:00

AFTERNOON: THURSDAY, 3RD OCTOBER 2019: PARALLEL SESSIONS



<p>SESSION 6: Computing & Data Sciences II VENUE: Theatre 9 TIME: 14:00 – 17:00 VENUE: A TIME: 14:00 – 17:00 SESSION CHAIR: Dr. Victor Paledi, Tshwane University of Technology, South Africa</p>	<p>SESSION 7: Mechatronics & Sustainable Energy Solutions VENUE: Theatre 8 TIME: 14:00 – 17:00 SESSION CHAIR: Dr Lynn Coleman, Cape Peninsula University of Technology, South Africa</p>	<p>SESSION 8: Information Systems & Analytics II VENUE: Theatre 4 TIME: 14:00 – 17:00 SESSION CHAIR: Prof. Tembisa Ngqondi, University of Mpumalanga, South Africa</p>
<p>1 1904: A Review of Wireless Sensor Networks: Early Accident Detection Models for South African Mine Industries <i>Beauty L. Komane & T. E. Mathonsi</i> <i>Department of Information Technology, Tshwane University of Technology, Pretoria, South Africa</i></p>	<p>1 1957: Development and utilization OF Polymers in Biomedical Applications <i>Idowu David Ibrahim & Tamba Jamiru</i> <i>Department of Mechanical Engineering, Mechatronics & Industrial Design; Tshwane University of Technology, Pretoria. South Africa</i></p> <p><i>Emmanuel Rotimi Sadiku</i> <i>Department of Chemical, Metallurgical & Materials Engineering, Tshwane University of Technology Pretoria. South Africa</i></p> <p><i>Yskandar Hamam</i> <i>Department of Electrical Engineering, Tshwane University of Technology, Pretoria. South Africa</i></p>	<p>1 1976: A Digital Collaborative Framework for Improved Tuberculosis Treatment Adherence of Patients in Rural Settings <i>Olawande Daramola</i> <i>Department of Information Technology, Faculty of Informatics and Design, Cape Peninsula University of Technology, Cape Town, South Africa</i></p> <p><i>Peter Nysaulu</i> <i>Division of Epidemiology and Biostatistics, Faculty of Medicine and Health Sciences, Stellenbosch University, Cape Town, South Africa</i></p>
<p>2 1995: Impact of Subscription Fraud in Mobile Telecommunication Companies <i>Freddie Mathews Kau and Okuthe P. Kogeda</i> <i>Department of Computer Science and Informatics, Faculty of natural and Agricultural Sciences, University of the Free State, South Africa</i></p>	<p>2 1960: Effect of Suction Diameter Variations on Performance of Centrifugal Pump <i>D. V. V. Kallon, M. E. Matlakala, K.F. Nkoana, B.D. Mafu, S.B. Mkhwanazi</i> <i>Department of Mechanical and Industrial Engineering Technology, University of Johannesburg</i></p>	<p>2 1914: Innovation in Tax Administration: Digitizing Tax Payments, Trust and Information Security Risk <i>Fikile Maphumula & Kennedy Njenga</i> <i>Department of Applied Information Systems University of Johannesburg</i></p>

<p>3 <u>1974: Complementary Methods for Human Visual Perception of Visual Weather Lore Sky Objects Using Machine Learning Methods</u> Muthoni Masinde, Department of Information Technology, Central University of Technology, South Africa Mwanjele Mwachaga, Department of Informatics and Computing, Taita Taveta University, Voi, Kenya</p>	<p>Johannesburg, South Africa</p> <p>3 <u>1925: Development and performance evaluation of a single stage travelling-wave thermo-acoustic generator</u> H. Shamase, S. Spambo, M. Ngcukayitobi, L. Tartibu, P. Bokoro Mechanical and Industrial Engineering Technology Department, University of Johannesburg, South Africa</p>	<p>Johannesburg, South Africa</p> <p>3 <u>1917: Facilitated Adoption of Accounting Information Systems: A First Step to Digital Transformation in Township Microenterprises</u> Raphael Kamanga & Patricia Margaret Alexandra School of Computing, University of South Africa Johannesburg, South Africa</p>
<p>4 <u>1964: A Review of Wavelet Transform based Techniques for Denoising Latent Fingerprint Images</u> Sboniso Sifiso Mgaga & Jules-Raymond Tapamo dept. Engineering, University of KwaZulu Natal, South Africa Nontokoza Portia Khanyile dept. Identity Authentication, CSIR, Defense and Security Pretoria, South Africa</p>	<p>4 <u>1922: Technical Barriers to Renewable Energy Technology Adoption in Nigeria</u> Rosemary N. Wojuola and Busisiwe P. Alant Science and Technology Education Cluster, School of Education, University of KwaZulu-Natal, Edgewood, South Africa</p>	<p>4 <u>1977: Conceptualized Framework for Assessing Teachers' E-learning Readiness in South African Rural Schools</u> Phatudi P Setati & Victor N Paledi dept. Informatics, Tshwane University of Technology, Pretoria, South Africa</p>
<p>5 <u>1970: Using Internet of Things for sustainable groundwater drought management in the Modder River catchment of South Africa</u> Saheed A Oke & Rebecca Alowo Civil Engineering Department, Central University of Technology, Bloemfontein, South Africa Muthoni Masinde Department of Information Technology Central University of Technology Bloemfontein, South Africa</p>	<p>5 <u>1950: Chemical Analysis of Acid Mine Drainage Using Pervious Concrete as a Filtering Medium</u> A. L. Mafanya, B. D.V.V. Kallon, C. P. Simelane Department of Engineering and Built Environment University of Johannesburg, South Africa</p>	<p>5 <u>1945: Developing an integration architecture to manage heterogeneous data by private healthcare practitioners: A case of Namibia</u> Irja Shaanika & Monica Nehemia Department of Information Technology, Cape Peninsula University of Technology, Cape Town, South Africa</p>

<p>6 <i>(1941: Review of NoSQL Data Stores: Using a reactive three-tier application for software developers to achieve a high availability application design architecture</i></p> <p>Waldon Hendricks IT academic department, Cape Peninsula University of Technology, Cape Town, South Africa</p>	<p>6 <i>1972: Impacts of Distributed Energy Resources on the Grid Transient Stability: A Case Study of Namibia</i></p> <p>Andris M. Simeon, Tom Wanjekeche, Ester Hamatwi & Kamati N. I. Mbangula Department of Electrical and Computer Engineering, University of Namibia, Ongwediva, Namibia</p>	<p>6 <i>1990: How undergraduate students use the so called 'chat language': Whatsapp group chat</i></p> <p>Walter Matli Department of Information Technology, Vaal University of Technology, Johannesburg, South Africa</p>
<p>BREAK: 16:00 – 16:15</p>		

<p><i>SESSION 9: Materials Sciences and Electrical Engineering</i> VENUE: Theatre 9 TIME: 16:15 – 18:15 SESSION CHAIR: Prof Melius Weideman, Cape Peninsula University of Technology, South Africa</p>	<p><i>SESSION 10: Environmental Sciences and Health Informatics</i> VENUE: Theatre 8 TIME: 16:15 – 18:15 SESSION CHAIR: Prof Ephias Ruhode, Cape Peninsula University of Technology, South Africa</p>	<p><i>SESSION 11: Information Systems & Analytics I</i> VENUE: Theatre 4 TIME: 16:15 – 18:15 SESSION CHAIR: Dr Nyx Mclean, Cape Peninsula University of Technology, South Africa</p>
<p>1 <i>1907: Photovoltaic system sizing for household use: effects of temperature, orientation and sun tracking</i> O.M. Babatunde, J.L. Munda., Y. Hamam Department of Electrical Engineering, Tshwane University of Technology, Pretoria, South Africa</p>	<p>1 <i>1926: A review on residential exposure to electromagnetic fields from overhead power lines: electrification as a health burden in rural communities</i> P. C. Rathebe, D. S. Modisane, M. B. Rampedi, S. Bidassey-Manilal, T. P. Mbonane Department of Environmental Health, University of Johannesburg, Johannesburg, South Africa</p>	<p>1 <i>1940: Perceived Actors and Factors for Sustaining M-learning in Higher Education: A South African Students Perspective</i></p> <p>Victor N Paledi dept. Informatics, Tshwane University of Technology, Pretoria, South Africa</p>

<p>2 1985: ReRAM memory based on drop cast PVA nano composite</p> <p><i>Charlton Uwa Aigbekaen, Sreedevi Vallabhapurapu, Issac O Osunmakinde</i> <i>School of Computing, University of South Africa, Johannesburg, South Africa</i></p>	<p>2 1927: Occupational exposure to RF energy and SMFs in MRI units within Mangaung metropolitan region: a study protocol</p> <p><i>P. C. Rathebe</i> <i>Department of Environmental Health, University of Johannesburg, Johannesburg, South Africa</i></p>	<p>2 1980: Review of IT Governance Frameworks implementation in the context of the South African Public Sector</p> <p><i>Euphodia Mathase & Mampilo Phahlane</i> <i>Computer Science, Engineering and Technology University of South Africa Pretoria, South Africa</i></p>
<p>3 1947: Prospect of Solar-assisted Heat Pump Water Heating Systems for Student Residences</p> <p><i>T. P. Gaonwe, K. Kusakana and P. A. Hohne</i> <i>Department of Electrical, Electronic and Computer Engineering, Central University of Technology, Bloemfontein, South Africa</i></p>	<p>3 1979: Knowledge and practices of Environmental Health Practitioners in communicable disease surveillance: City of Ekurhuleni</p> <p><i>Kgomotso Lebelo</i> <i>Department of Life Sciences, Environmental Health Central university of Technology, South Africa</i></p> <p><i>Renay van Wyk</i> <i>Department of Environmental Health, University of Johannesburg, Johannesburg, South Africa</i></p>	<p>3 1988: Open Innovations in Human Resource Management Practices in the Tanzanian Public Service: Assessment of the Policy Documents</p> <p><i>Montanus C. Milanzi and Lucy B. Allay</i> <i>School of Public Administration and Management, Mzumbe University, Mzumbe, Tanzania</i></p>
<p>4 1948: Using Marine Outfall Wastewater Discharge Systems for Electricity Generation</p> <p><i>P. Moselane, K. Kusakana and S.P. Koko</i> <i>Department of Electrical, Electronic and Computer Engineering, Central University of Technology, Bloemfontein, South Africa</i></p>	<p>4 1928: Assessment of the Implementation of the Cradle-to-Grave Principle in Private Health Care Clinics in the East Coast of KwaZulu-Natal</p> <p><i>Mpinane Flory Senekane</i> <i>University of Johannesburg, Faculty of Health Sciences, Department of Environmental Health, Johannesburg. South Africa</i></p> <p><i>Siphesihle Siyamukela Masimula</i> <i>eThekweni Municipality, Health Unit, Environmental Health Services, Durban, South Africa</i></p>	<p>4 1992: Factors Influencing the Adoption of Cloud-Based Cybersecurity within Tertiary Institutions: A Proposed Framework</p> <p><i>N. N. Patala, A. Kadyamatimba, S. Madzvamse</i> <i>Department of Business Information Systems University of Venda Thohoyandou, South Africa</i></p>

<p>5 1996: Biodegradable ReRAM based on chitosan for non-volatile memory application Abiodun Temidayo Fabiyi, Sreedevi Vallabhapurapu, Issac O Osunmakinde School of Computing, University of South Africa, Johannesburg, South Africa</p>	<p>5 1933: Household Fuel Use and Prevalence of Self-reported Allergic Rhinitis in Rural Areas of Mpumalanga, South Africa Shalin Bidassey-Manilal, T. P. Mbonane, P. C. Rathebe, M. F. Senekane Department of Environmental Health, University of Johannesburg, Johannesburg, South Africa</p>	<p>5 1993: A Viable Systems Model for Implementing IT Governance Nkhumbuleni Tendani Ratshitanga School of Management Sciences, University of Venda, Thohoyandou, Limpopo, South Africa</p>
<p>6 1969: ReRAM memory cells based on gelatin nano composites: Towards green computing Olawumi Akinfenwa Oladeji, Sreedevi Vallabhapurapu, Issac O Osunmakinde School of Computing, University of South Africa, Johannesburg, South Africa</p>	<p>6 1932: Noise exposure among dental assisting students from dental instruments during work-integrated learning: a review Lerato G. Mosoeu & Carien Weyers Department of Life Sciences, Central niversity of Technology, Bloemfontein, South Africa P. C. Rathebe, M. F. Senekane Department of Environmental Health, University of Johannesburg, Johannesburg, South Africa</p>	<p>6 1916: KMS adoption and use in a municipality: A proposed framework based on Organizational Culture Theory (OCT) and KMS Adoption and Use (KMSAU) Framework Tshegofatso T. Matshwane, Mampilo M. Phahlane a School of Computing, University of South Africa, Gauteng, South Africa</p>

GALA DINNER – FROM 18:30

SESSION 12: FRIDAY, OCTOBER 4, 2019 VENUE: THEATRE 9 (CPUT)

08:00 – 09:00	Registration – Foyer of Theatre 9 (Next to Engineering Building), CPUT, District 6 Campus
09:00 – 10:45	<p>Programme Director Opening Remarks: Conference Co-Chair: Prof. Nixon Muganda Ochara, Research Professor, University of Venda, Research Associate, University of Witwatersrand, South Africa International Keynote Speech: Algorithmic Accountability <i>Prof. Jeanna Mathews, Clarkson University, USA and ACM Distinguished Speaker</i></p>

<p align="center">SESSION 13: Computer Science & Electrical Engineering VENUE: Theatre 9 TIME: 11:00 – 13:00 SESSION CHAIR: Alfredo Terzoli, Rhodes University, South Africa</p>		<p align="center">SESSION 14: Electrical & Computer Engineering Innovations VENUE: Theatre 8 TIME: 11:00 – 13:00 SESSION CHAIR:</p>		<p align="center">SESSION 15: Mechatronic & Industrial Engineering VENUE: Theatre 4 TIME: 11:00 – 13:00 SESSION CHAIR:</p>	
1	<p>1944: An RFID Flock Management System for Rural Areas</p> <p><i>Tanaka Nyakonda, Mosiuoa Tsietsi, and Alfredo Terzoli, Nomusa Dlodlo Department of Computer Science, Rhodes University, Grahamstown, South Africa</i></p>	1	<p>1971: Analysis of power systems faults with the integration of renewable energy sources</p> <p><i>K. Moloj, Y. Hamam and J. A. Jordaan Dept. of Electrical Engineering Tshwane University of Technology eMalahleni, South Africa</i></p>	1	<p>1958: Need for Energy Efficiency and Energy Audit of Buildings in Freetown</p> <p><i>Bai Kamara & Daramy Kallon Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa</i></p> <p><i>Sheriff Kamara & Redwood Sawyer University of Sierra Leone</i></p>
2	<p>1906: Dynamic Bandwidth Allocation Algorithm to improve Quality of Service in Intelligent Home Networks</p> <p><i>Themba L. Nkosi, Maredi Mphahlele, Sunday.O. Ojo, Topside E. Mathonsi Department of Information Technology, Tshwane University of Technology, Pretoria, South Africa</i></p>	2	<p>1987: Energy Monitoring for Potential Cost Saving in a Typical South African Household</p> <p><i>Stephen Marais, Kanzumba Kusakana, Sandile Phillip Koko Electrical, Electronic and Computer Engineering Central University of Technology, Bloemfontein, South Africa</i></p>	2	<p>1984: Vibration Response for class D44 and D39 200 Locomotive Wheelsets due to Dynamic Loads Excitation</p> <p><i>Bingo Balekwa & D.V, V Kallon Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa</i></p>



			<p>Danie Fourie Transnet, South Africa</p>
3	<p>1973: Road Traffic Optimization for Mid-sized African Cities – Application of Fuzzy Algorithms and Computer Vision Sechocha Liphoto & Muthoni Masinde Department of Information Technology, Central University of Technology, South Africa</p>	3	<p>1986: Is the South African Electrical Infrastructure Ready for Electric Vehicles? Lindiwe Bokopane, Kusakana Kanzumba, Herman Vermaak Department of Electrical, Electronic and Computer Engineering, Central University of Technology, Bloemfontein, South Africa</p>
			<p>3 1937: Vertical and Horizontal Vibration Response for Corrugated Track Curves Supported on Steel and PY-Type Concrete Sleepers Bingo Balekwa, D.V, V Kallon Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa Danie Fourie Technology Management, Mechanical Technology Transnet Freight Rail Pretoria, South Africa</p>
4	<p>1943: An Internet of Things-Based System Integrated With Blockchain to Manage Patient Data in the Healthcare Sector Mulalo Muofhe, Nomusa Dlodlo, Alfredo Terzoli, Department of Computer Science, Rhodes University, Grahamstown, South Africa</p>	4	<p>1962: Energy Efficiency Improvements in a Microbrewery in South Africa J. Conduah, K. Kusakana and P. A. Hohne Department of Electrical, Electronic and Computer Engineering, Central University of Technology, Bloemfontein 9300, South Africa</p>
			<p>4 1966: Hydraulic System Design of a Tri-Adjustable Automated Heavy-Duty Handling System Based On Industry 4.0 S.Z. Mafokwane, D.V, V Kallon Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa</p>
5	<p>1989: A Proposed Innovative Framework to Explore the Communication Challenges Between Bloemwater and the Mangaung Municipality Musukali Nanousha Kusakana & Mercia Coetzee Department of Communication Language Practice, Central University of Technology, Bloemfontein, South Africa</p>		<p>5 1952: Development of a Holonomic Robotic Wheeled Walker for Persons with Gait Disorder E. O. Arogunjo & E. D. Markus Electrical, Electronic and Computer Engineering Department, Central University of Technology, South Africa Hamam Yskandar</p>
			<p>5 1963: Walk-through Energy Audit and Savings Opportunities: Case of Water Heaters at CUT Residential Buildings T. P. Gaonwe, K. Kusakana and P. A. Hohne Department of Electrical, Electronic and Computer Engineering, Central University of Technology, Bloemfontein 9300, South Africa</p>

<p>Saheed Oke Department of Civil Engineering, Central University of Technology, Bloemfontein, South Africa</p>	<p>Department of Electrical Engineering, Tshwane University of Technology, Pretoria, South Africa</p>	
	<p>6 <u>1965: Innovative Energy Management of an Integrated Space and Water Heating System: Case of a Residential Building at CUT</u> Juan Siecker & Kanzumba Kusakana Department of Electrical, Electronic and Computer Engineering Central University of Technology, Bloemfontein, South Africa Bubele Papy Numbi Department of Electrical Engineering Mangosuthu University of Technology Durban, South Africa</p>	

LUNCH: 13:00 – 14:00

SESSION 16: AFTERNOON: FRIDAY, 4RD OCTOBER 2019: OPEN INNOVATIONS

VENUE: THEATRER 9

SESSION CHAIR: PROF. TIKO IYAMU, CAPE PENINSULA UNIVERSITY OF TECHNOLOGY, SOUTH AFRICA

<p>1</p>	<p><u>1931: Stakeholders Initiative in Reducing Mortality Rates in Traditional Initiations Schools in South Africa: a reflection paper</u> Whitney Mothosola, Phoka C. Rathebe, Charlotte M. Mokoatle Department of Environmental Health University of Johannesburg, Johannesburg, South Africa</p>
<p>2</p>	<p><u>1978: Communicable disease Surveillance in the City of Ekurhuleni: Environmental Health Practitioners' perceptions</u> Kgomotso Lebelo Department of Life Sciences, Environmental Health Central university of Technology Free State, South Africa Renay van Wyk</p>

*Department of Environmental Health
University of Johannesburg
Johannesburg, South Africa*

1981: Digital Government Services' Sustainability in the Gauteng Provincial Government (South Africa)
*Morwamokwena Benny Masemola
School of Computing
University of South Africa*

1994: E-learning as a strategic support to student teachers in curriculum delivery
*Walter Lumadi
Curriculum & Instructional Studies
University of South Africa*

*Kibinkiri Eric Len
ICT University
Yaoundé, Cameroon*

1929: A Relational Ontology of "Open" Digital Infrastructures in Socially Excluded Communities in Angola
*Alberto Wapota, PhD
Department of Computer Science Mandume Ya Ndemufayo University, Lubango, Angola*

Vote of Thanks, Closure

2020 Open Innovations Conference

Dates: 7 -9 October 2020

