

# I3E2020

Monday 6 April 2020

08:00 - 16:00	Registration and Help desk			
07:30 - 08:30	Breakfast			
08:35 - 08:45	Ndlopfu	Welcome: Conference Chairs		
08:50 - 9:35	Ndlopfu	Keynote : James van der Westhuizen		
09:35 - 09:50	Ndlopfu	I3E 2021 Presentation : Denis Dennehy		
9:55 - 10:25	Tea break			
Venue (Stream)	Ingwe (Business Processes)	Mhelembe (Big Data and Machine Learning)	Ndau (ICT and Education)	Nari
10:30 - 12:55	4 Henk Pretorius and Alta Van der Merwe. Towards a theoretical framework for IT-enabled and IT-enforced corporate governance compliance using business process management systems	71 Krishnan Naidoo and Vukosi Marivate. Unsupervised Anomaly Detection of Healthcare Providers using Generative Adversarial Networks	11 Bangisisi Zamuxolo Mathews Nyembe and Grant Royd Howard. Development of a Quantitative Instrument to Measure Mobile Collaborative Learning (MCL) using WhatsApp: The Conceptual Steps	IS4GOV Workshop
	8 Stanislav Mamonov. The Role of Information Technology in Fintech Innovation: Lessons from the New York City Ecosystem	94 Paul Brous, Marijn Janssen and Rutger Krans. Data Governance as Success Factor for Data Science	14 David Mutambara and Anass Bayaga. Understanding Rural Parents' Behavioural Intention to Allow their Children to Use Mobile Learning (m-Learning)	
	29 Carmen Doyle and Lisa Seymour. Governance challenges constraining Business Process Management: the case of a large South African financial services corporate	100 Anke Joubert, Matthias Murawski, Julian Bühler and Markus Bick. Happiness and Big Data – Theoretical foundation and empirical insights for Africa	31 Linda Blömer, Alena Droit and Kristin Vogelsang. May the Change Be with You: The Need for New Roles to Support Flipped Classroom Development	
	58 Katja Bley, Hendrik Schön and Susanne Strahringer. Overcoming the Ivory Tower: A Meta Model for Maturity Models	107 Amit Kumar Kushwana and Arpan Kumar Kar. Predicting Information Diffusion on Twitter A Deep Learning Neural Network Model using Custom Weighted Word Embedding Features	49 Mark Oliver Kevor, Richard Boateng, Emmanuel Awuni Kolog, Acheampong Owusu and Anthony Afful-Dadzie. MSIS 2016: What are we teaching in Sub-Saharan Africa?	
	Merwe. Towards a Strategic Model for Safeguarding the Preservation of Business Value during Human Interactions with Information Systems	138 Joy Lowe and M Matthee. Requirements of Data Visualization Tools to Analyze Big Data: A Structured Literature Review	78 Vanitha Rajamany, Corne Van Staden and Judy Van Biljon: Requirements for an eModeration system in private schools in South Africa	
	96 Tristan Thordsen, Matthias Murawski and Markus Bick. How to measure digitalization? A critical evaluation of Digital Maturity Models	155 Juane Maritz, Sunet Eybers and Marie Hattingh. Implementation considerations for Big Data Analytics (BDA): A Benefit Dependency Network approach	104 Cathrine Tomte, Markus Bugge, Sabine Wollscheid and Frida Vennerød-Diesen. Ready to go? Schools' preparedness for teaching and learning within a one-to-one laptop program	
	109 Elijah Djan and Marne de Vries. Business Process Re-engineering and Agile Software Development: Applying the Story-Card Method	162 Phaphama Kangelani and Tiko Iyamu. A model for evaluating big data analytics tools for an organisational purposes	144 Linda Blömer, Christin Voigt, Alena Droit and Uwe Hoppe. Agile Development of a Flipped Classroom Course	
13:00 - 14:00	Lunch			
Venue (Stream)	Ingwe (Business Processes)	Mhelembe (eBusiness)	Ndau (eGovernment)	Nari
14:00 - 15:25	113 AURONA Gerber, Pierre le Roux, Carike Kearney and Alta Van Der Merwe. The Zachman Framework for Enterprise Architecture: an Explanatory IS Theory	22 Mahmood Hussain Shah, Raza Muhammad and Nisreen Ameen. Cybersecurity Readiness of e-tail Organisations: A Technical Perspective	34 Khulekani Yakobi, Brenda Schöitz and Benjamin Wagner Vom Berg. A Conceptual Model of the Challenges of Social Media Big Data for Citizen e-Participation: A Systematic Review	IS4GOV Workshop
	124 Ruan Spies, Sara S. Grobbelaar and Adele Botha. A Scoping Review of the Application of the Task-Technology Fit Theory	18 Kuttimani Tamilmani, Nripendra Rana, Yogesh Dwivedi and Hatice Kizgin. Consumer Mobile Shopping Acceptance Predictors and Linkages: A Systematic Review and Weight Analysis	84 Hong Guo and Shang Gao. Enterprise Architectures in E-Governments Studies: Why, What and How	
	33 Raoul Hentschel and Susanne Strahringer. A Broker-based Framework for the Recommendation of Cloud Services: A Research Proposal	24 Prianka Sarker, Laurie Hughes, Dwivedi Yogesh and Nripendra Rana. Social commerce adoption predictors: A review and weight analysis	90 Anele Apleni and Hanlie Smuts. An e-Government Implementation Framework: a developing country case study	
15:30 - 15:55	Tea break			
16:00 - 17:30	Ingwe (Security)	Mhelembe (eBusiness)	Ndau (eGovernment)	Nari
	25 Kayla Hendricks, Pitso Tsiobolane and Jean-Paul Van Belle. Cyber-harassment victimization among South African LGBTQIA+ youth	50 Samuel Anim-Yeboah, Richard Boateng, Emmanuel Awuni Kolog, Acheampong Owusu and Ibrahim Bedi. Digital Entrepreneurship in Business Enterprises: A Systematic Review	92 Leif Erik Opland, Letizia Jaccheri, Ilias Pappas and Jostein Engesmo. Toward employee-driven digital innovation in public organizations through the use of action design research	IS4GOV Workshop
	65 Abdul Bashiru Kwarteng, Fortune Nwaiwu, Christina Appiah -Nimo and Michal Pilik. Online identity theft on consumer purchase intention: A mediating role of online security and privacy concern	56 Eunice Yeboah Afeti, Richard Boateng, Acheampong Owusu, Eric Afful-Dadzie and Joshua Ofori-Amanfo. Assessing The Role of Trust in Merchant Adoption of Mobile Payments in Ghana	126 Idah Mohungoo, Irwin Brown and Salah Kabanda. A Systematic Review of Implementation Challenges in Public E-Procurement	
	146 Antony Cooper and Serena Coetzee. On the Ethics of Using Publicly-Available Data	77 Michael Adu Kwarteng, Abdul Bashiru Jibril, Elsamar Botha and Christian Nedu Osakwe. The influence of price comparison websites on online switching behavior: A consumer empowerment perspective	106 Anthony Renner-Micah, John Effah and Richard Boateng. Institutional Effects on National Health Insurance Digital Platform Development and Use: The Case of Ghana	
17:30 - late	Welcome Function (Foyer)			

## Tuesday 7 April 2020

<b>08:00 - 16:00</b>	<b>Registration and Help desk</b>			
<b>07:30 - 08:30</b>	<b>Breakfast</b>			
<b>08:35 - 09:25</b>	<b>Ndlopfu</b>	<b>Keynote: Irwin Brown</b>		
<b>Venue (Stream)</b>	<b>Ingwe (Block Chain)</b>	<b>Mhelembe (Social media)</b>	<b>Ndau (ICT4 gender equality and development)</b>	<b>Nari (4IR)</b>
<b>09:30 - 10:30</b>	<p><b>1</b> Temore Isaac Akaba, Alex Nortá, Chibuzor Udokwu and Dirk Draheim. A Framework for the Adoption of Blockchain-Based e-Procurement Systems in the Public Sector</p> <p><b>40</b> Themba Makubalo, Brenda Scholtz and Temitope Oluwaseyi Tokosi. Blockchain Technology for Empowering Patient-centred Healthcare: A Pilot study</p> <p><b>114</b> Matti Mäntymäki, Milla Wirén and A.K.M Najmul Islam. Are cryptocurrencies disruptive? A Causal Layered Analysis-based framework to examine technological change</p>	<p><b>7</b> Douglas Parry and Daniel le Roux. Introducing the Media Use Behaviour Conceptual Framework</p> <p><b>13</b> Daniel B. le Roux and Douglas A. Parry. The Town Square in your Pocket: Exploring Four Metaphors of Social Media</p> <p><b>38</b> Albie Van Zyl, Marita Turpin and Machdel Matthee. How Can Critical Thinking be Used to Assess the Credibility of Online Information?</p>	<p><b>93</b> Anuragini Shirish, Shirish C. Srivastava and G Shainesh. Can Technology be leveraged for Bridging the Rural-Urban Divide?</p> <p><b>125</b> Kayode Odusanya and Morakinyo Adetutu. Exploring the socio-economic determinants of Internet Usage in Nigeria: a micro-spatial approach</p> <p><b>135</b> Nkosikhona Msweli and Tendani Mawela. Enablers and barriers for mobile commerce and banking services among the elderly in developing countries: A systematic review</p>	<p><b>35</b> Lucas Gumbi and Hossana Twinomurinzi. The incompatibility of Smart Manufacturing for SMMEs: A Systematic Review</p> <p><b>37</b> Anthea van der Hoogen, Brenda Scholtz and André Calitz. Using Theories To Design a Value Alignment Model for Smart City Initiatives</p> <p><b>52</b> Caro Els, Sara Grobbelaar and Denzil Kennon. Complementary Partnerships for the 4IR: A Relational Capability Maturity Model</p>
<b>10:35 - 10:55</b>	<b>Tea break</b>			
<b>11:00 - 13:00</b>	<b>Ndlopfu</b>	<b>Panel (Block chain) Matti</b>		
<b>13:00 - 14:00</b>	<b>Lunch</b>			
<b>Venue (Stream)</b>	<b>Ingwe (eBusiness)</b>	<b>Mhelembe (Social media)</b>	<b>Ndau (ICT4 gender equality and development)</b>	<b>Nari (4IR)</b>
<b>14:00 - 15:10</b>	<p><b>83</b> Mathias Mujinga. Online Banking Service Quality: An E-S-QUAL Analysis</p> <p><b>89</b> Joshua Antonizzi and Hanlie Smuts. A Conceptual Framework for Digital Entrepreneurship Enabled Through Digital Transformation</p> <p><b>99</b> Zacharoula Papamitsiou and Patrick Mikalef. Mapping the intellectual progress in e-Business, e-Services and e-Society from 2001 to 2019</p>	<p><b>39</b> Adrian Abendroth, Douglas Parry, Daniel le Roux and Jana Gundlach. An analysis of problematic media use and technology use addiction scales – what are they actually assessing?</p> <p><b>67</b> Shirumisha Kwayu. Social Media Ecosystem and its influence on small business strategic practices</p> <p><b>75</b> Abhinav Kumar, Jyoti Prakash Singh, Nripendra P. Rana and Yogesh K. Dwivedi. Disaster severity prediction from Twitter Images</p>	<p><b>150</b> Susana Muñoz Hernández, Clara Benac Earle and Lars-Ake Fredlund. A methodology for addressing the second-level digital divide</p> <p><b>151</b> Yashoda Karki and Ilias Pappas. Investigating Aid Effectiveness in Developing Countries: The Case of Nepal</p> <p><b>101</b> Andre Calitz, Margaret Cullen and Duduetsang Fani. The Influence of Culture on Women's IT Career Choices</p>	<p><b>81</b> Maciel M. Queiroz and Samuel Fosso Wamba. The Role of Digital Connectivity in Supply Chain and Logistics Systems: A Proposed SIMPLE Framework</p> <p><b>98</b> Stefan Smuts, Alta van der Merwe and Hanlie Smuts. Industry 4 from an Organisational Perspective: A Conceptual Model</p> <p><b>119</b> Libuse Svobodova. SMART city and economy: bibliographic coupling and co-occurrence</p>
<b>15:15 - 15:35</b>	<b>Tea break</b>			
<b>Venue (Stream)</b>	<b>Ingwe (eBusiness)</b>	<b>Mhelembe (Social media)</b>	<b>Ndau (ICT4 gender equality and development)</b>	<b>Nari (4IR)</b>
<b>15:40 - 16:30</b>	<p><b>105</b> Elvira Ismagilova, Yogesh Dwivedi and Nripendra Rana. Weight analysis of the factors affecting eWOM providing behavior</p> <p><b>152</b> Oluwasefunmi Arogundade, Adebayo Abayomi-Alli, Taiwo Bamigbade, Kayode Adesemowo, Modupe Odusami and Victor Olowe. An Intelligent Marketspace Mobile Application for Marketing Organic Products</p> <p><b>157</b> Shiraz Amod and Sumarie Roodt. How Corporates in South Africa are using Serious Games in Business</p>	<p><b>128</b> Banita Lal, Shirumisha Kwayu and Sajeel Ahmed. Women's Political Participation on Social Media: The Case of Tanzania</p> <p><b>154</b> Marlie Celliers and Marie Hattingh. A Systematic Review On Fake News Themes Reported In Literature</p> <p><b>163</b> Paul Machete and Marita Turpin. The Use of Critical Thinking to Identify Fake News: A Systematic Literature Review</p>	<p><b>103</b> Eija Koskivaara and Brita Somerkoski. Alumni reflections on gender equality in the ICT context</p> <p><b>143</b> Matthias Murawski, Mahdieh Darvish, Charlotte Marie Prinz and Markus Bick. Exploring Digital Competence Requirements for Junior Financial Analysts in the UK Banking Industry</p> <p><b>145</b> Mike Abia and Irwin Brown. Conceptualizations of E-recruitment: A Literature Review and Analysis</p>	<p><b>129</b> Tom Roar Eikebrokk and Dag Håkon Olsen. Robotic Process Automation and Consequences for Knowledge Workers; a Mixed-Method Study</p> <p><b>142</b> Kristian Aspø, Tom Roar Eikebrokk, Dag H. Olsen and Elaine Sajets. Co-creation for digitalization: A study of co-creation in Norwegian business clusters</p> <p><b>88</b> Jacques Jansen and Alta Van der Merwe. A Framework for Industrial Internet of Things</p>
<b>16:35 - 17:30</b>	<b>Ndlopfu</b>	<b>I3E AGM</b>		
<b>17:30 - late</b>	<b>Gala Dinner and Bush Drive (Meet in Foyer)</b>			

## Wednesday 8 April 2020

08:00 - 16:00	Registration and Help desk			
07:30 - 08:30	Breakfast			
08:35 - 09:25	Ndlopfu	Keynote: Shirish Srivastava		
09:30 - 10:30	<b>Ingwe (Knowledge and Knowledge Management)</b>	<b>Mhelembe (UX and Usability)</b>	<b>Ndau (eHealth)</b>	<b>Nari (eHealth)</b>
	<b>26</b> Olakumbi Fadiran, Judy Van Biljon and Marthie Schoeman. Knowledge transfer in science education: the case for usability-based knowledge visualisation guidelines	<b>122</b> Ilias Pappas, Kshitij Sharma, Patrick Mikalef and Michail Giannakos. How quickly can we predict users' ratings on aesthetic evaluations of websites? Employing machine learning on eye-tracking data	<b>17</b> Fazlyn Petersen, Mariam Jacobs and Shaun Pather. Barriers for user acceptance of mobile health applications for diabetic patients: Applying the UTAUT model	<b>110</b> Lerato Mahloko and Funmi Adebesein. Accuracy of Consumer Wearable Health Device Data: A Systematic Literature Review
	<b>165</b> Hanlie Smuts and George Maramba. A Knowledge Asset Management Implementation Framework for Information Systems Outsourcing Projects	<b>132</b> Nabeel Makkan, Jacques Brosens and Rendani Kruger. Designing for Positive Emotional Responses in Users of Interactive Digital Technologies: A Systematic Literature Review	<b>21</b> Fazlyn Petersen, Adiel Baker, Shaun Pather and William Tucker. Impact of socio-demographic factors on the acceptance of Information Communication and Technology (ICT) for diabetes self-care	<b>112</b> Thaverson Devar and Marie Hattingh. Gamification in Healthcare: Motivating South Africans to Exercise
	<b>166</b> Hanlie Smuts and Iddo-Imri Scholtz. A Conceptual Knowledge Visualisation Framework for Transfer of Knowledge: an Organisational Context	<b>133</b> Rendani Kruger, Jacques Brosens and Marié Hattingh. A methodology to compare the usability of information systems	<b>55</b> Lilies Ratshidi, Sara Grobbelaar and Adele Botha. Categorization of Factors Influencing Community Health Workers from a Socio-Technical Systems Perspective	<b>115</b> Ilse Struweg. A Twitter Social Network Analysis Based on Graph and Network Theory: The South African Health Insurance Bill Case
10:35 - 10:55	Tea break			
11:00 - 12:00	Ndlopfu	Panel (Editors)		
12:00 - 12:30	Ndlopfu	Conference Closure		
12:30 - 13:30	Lunch			