

**DAY 1 Monday 17th September 2018**

**ACADEMIC PAPERS**

7:30 AM	DELEGATE REGISTRATION								
9:00 AM	PLENARY SESSION DAY 1 DRDLR OPENING KEYNOTE - Matthew Pennells - What is Smart Geo in the Context of Government?								
10:30 AM	TEA & TALK (EXHIBITION HALL) PODIUM TALK - Stephan van der Merwe - Mobile Scan Data Collection in the Palm of your Hand								EXHIBITION HALL PODIUM TALKS
11:00 AM	PLENARY SESSION DAY 1 INDUSTRY FORUM - Mr. Mark King (Facilitator) BIM - (Panelists - Chris Allen, Chris Kirchoff, Simon Bromfield & Kendall James) INDUSTRY FORUM - Mr. Patrick McKivergan (Facilitator), Managing Director, ESRI South Africa - Education: Lifelong Learning with Spatial Technology (Panelists - Schalk van Heerden, Serena Coetzee, Dr H J Du Plessis & Portia January)								
12:30 PM	LUNCH & TALK LIGHTNING TALKS (EXHIBITION AREA) - 5 MIN: Albert Olivier - Working with Survey Data - TIP OF THE DAY / Albert Olivier - Working with Point Clouds - TIP OF THE DAY								EXHIBITION HALL LIGHTNING TALKS
1:30 PM	TS01 - ASSEMBLY I REMOTE SENSING Assessing the Effect of Band Selection on Accuracy of Pansharpened Imagery Application to Young Woody Vegetation Mapping - Emmanuel Fundisi Assessment of Accuracy: Systematic Reduction of Training Points for Maximum Likelihood Classification and Mixture Discriminant Analysis (Gaussian and T-Distribution) - Michaela Ritchie Modelling the Relationship Between Groundwater Depth and NDVI Using Time Series Regression with Distributed Lag Models - Margaret Phiri	TS02 - ASSEMBLY II LAND GOVERNANCE / LAND RIGHTS Repurposing Land Administration Infrastructure and Information Systems to Underpin and Frame Property Rights For All - The South African Case - Dr Rosalie Kingwill, Phuhlisani NPC The Continuum of Land Rights Approach to Tenure Security - Jean du Plessis / UN-Habitat The Role of International Agencies in Developing New Tools and Frameworks for Land Governance: FIG and the Social Tenure Domain Model (STDM) - Prof Christiaan Lemmen	TS03 - JULIA MAPPING / LIDAR Indoor Mobile Mapping for a 3D Deliverable - Brent Godfrey Geospatial Technology - Data Collection Made Easy for Statistics South Africa - Matsatsi Masungwini Geometric Accuracy Assessment of Unmanned Digital Cameras and LIDAR Payloads - Dr. Mohamed Mostafa	TS04 - FABIA I WORKSHOP The Future of the Geomatics Profession - Altus Stydom	TS05 - FABIA II WORKSHOP South African Spatial Data Infrastructure (SASDI) - Recent Developments and Guidance for Compliance - Serena Coetzee & Maroale Chauke	TS06 - NCC WORKSHOP One Minute Data Manager with Luciad from Hexagon Geospatial - Adrian Roos	TS07 - SENATE I WORKSHOP Training Workshop on Social Media, Big-Data and Geo-location - Teboho Maphakisa	TS08 - SENATE II TUTORIALS Closing the Data Collection Loop (Office, Field, Office) - Albert Olivier / Arnaud Lezennec Knowing What You Don't Know When Procuring Data Collection Hardware and Software - How to Procure What's Right for the Job - Sean Dane The CPD Process - Raubie Raubenheimer	MEETING ROOM FIG 2022 MEETING (BY INVITATION)
3:00 PM	TEA & TALK (EXHIBITION HALL) PODIUM TALK - Albert Olivier - The Geospatial Software Hub								EXHIBITION HALL PODIUM TALKS
3:30 PM	TS09 - ASSEMBLY I LAND USE / LAND DEVELOPMENT / LAND MANAGEMENT Accurate Property Data for Improved Property Valuation and Municipal Revenue Performance - Janet Channing Filling the Gap: Customary Land Tenure Reform in Mozambique and South Africa - Simon Anthony Hull Incorporating Geospatial Workflows for Optimising Land-use Management - A Case Study on AGIS - Martin Kamphuis	TS10 - ASSEMBLY II PROFESSIONAL PRACTICE / STANDARDS/EDUCATION Reflections on Geomatics and Participation summer/winter schools - Mobile Map Apps for Nature Conservation in Germany and for Informal Settlements in South Africa - Serena Coetzee Technology Enabling GIS to Non-geomatics Users in Eskom - Kaylin Barber Geospatial Law and Policy - The Global Perspective - Adrian Roos	TS11 - JULIA SMART CITIES Smart Cities Created by Sensors and Software - Mathias Motz Making Smart Cities a Digital Reality - Mr. Mark King	TS12 - FABIA I TUTORIAL Challenges in the Geomatics Profession: Registration, Accreditation and Self-assessment - Heinrich du Plessis (Dr)	TS13 - FABIA II DATA QUALITY / TOPOGRAPHY & DEMs Adjusting Errors in Global Elevation Data in the Milder Terrains - Akajajaku Chukwumere Chukwuocha Data-related Challenges towards Analysing the Spatial-economic Attributes of Informal Settlements in South Africa - Masilonyane Mokhele Multi-source Remote Sensing Data for Natural Habitat Mapping in India - Subhadeep Bhattacharjee	TS14 - NCC WORKSHOP OpenStreetMap Mapathon - Victoria Rautenbach & Serena Coetzee	TS15 - SENATE I DEMONSTRATION Unparalleled Precision. Unrivaled Performance. Experience It! - Stephan van der Merwe & Arnaud Lezennec	TS16 - SENATE II TUTORIALS How to Plan a Monitoring Project - Rodney Podmore SAGI MEETING (BY INVITATION)	MEETING ROOM
5:45 PM	COCKTAILS / WELCOME FUNCTION (EXHIBITION HALL)								

**DAY 2 Tuesday 18th September 2018**

**ACADEMIC PAPERS**

7:30 AM	DELEGATE REGISTRATION									
8:30 AM	SENATE I Institute of Surveyors of Southern Africa - 96th AGM	PLENARY SESSION DAY 2 KEYNOTE - Dr. Aida Opoku-Mensah - Geospatial Information for Implementing the SDGs in Africa - United Nations Economic Commission - Sustainable Development Goals (SDGs) and Agenda 2030 KEYNOTE - Arnaud Lezennec - The Changing Role of the Geospatial Professional - From Measuring to Managing KEYNOTE - Philipp Amon - Using LIDAR Technology for Demanding Mapping Tasks							EXHIBITION HALL PODIUM TALKS	
10:30 AM	TEA & TALK (EXHIBITION HALL) PODIUM TALK - Adrien Jonson - Deformation Monitoring								EXHIBITION HALL PODIUM TALKS	
11:00 AM	Institute of Mine Surveyors of Southern Africa - 96th AGM	INDUSTRY FORUM - Sean Dane (Facilitator) - Centimetres for Everyone - The Evolution of GNSS Correction Services (Panelists - Aslam Parker, Simon Williams & Peter Newmarch)							EXHIBITION HALL PODIUM TALKS	
12:30 PM	LUNCH & TALK (EXHIBITION HALL) LIGHTNING TALKS (EXHIBITION AREA) - 5 MIN: Henno Morkel - Working with Aerial Imagery - TIP OF THE DAY / Jason Pretorius - Manage your Collaboration in the Cloud - TIP OF THE DAY								EXHIBITION HALL LIGHTNING TALKS	
1:30 PM	TS01 - ASSEMBLY I DISRUPTIVE TECHNOLOGIES The Data is Not Enough: Some Hurdles We Must Overcome in the Democratization of Remote Sensing and GIS Technology - Dean McCormick The Value of Reality Capture for BIM - Mark King Surviving the 4th Industrial Revolution - Kendall James	TS02 - ASSEMBLY II LAND GOVERNANCE / LAND RIGHTS Adjudicating and Creating Local Land Developing Urban Community Land Records in Monwabisi Park, Western Cape - Dr Rosalie Kingwill Developing Urban Community Land Records in Monwabisi Park, Western Cape - Dr Rosalie Kingwill Customary Land Tenure Reform: Ensuring Significance for Improved Success and Sustainability - Simon Hull Lessons in Applying the STDM, Namibia - Jean du Plessis & Cyprian Selebalalo	TS03 - JULIA EARTH OBSERVATION / MAPPING The First Land Cover Map Product of Prince Edward Islands - Luncedo Ngcobe Comparison of Traditional Survey Method and Structure from Motion (UAV drone) in Topographical Mapping - Thabani Thuse	TS04 - FABIA I DEFORMATION MONITORING Ground Stability and Infrastructure Monitoring using Free Satellite Data - Adrian Roos Deformation Monitoring can Form an Integral Part of an Overall Disaster Management System - Adrian Jonson Victoria Dam, Sri Lanka - Implementation of an Enhanced Deformation Monitoring System - Adrian Jonson	TS05 - FABIA II SPATIAL ANALYSIS & GEOCOMPUTATION A Geospatial Modelling Approach to Simulating the Impact of Future Planning Policies on the City of Tshwane - Chantel Judith Ludick Geospatial Accessibility Analysis of Primary Health Care Clinics in the Mbitana Local Municipality in the Eastern Cape - Matsubo Valentine Ragoasha Fortunate Index and Food Security: City of Tshwane Case Study using GIS - Peter Schmitz	TS06 - NCC WORKSHOP Collaborative Custodianship Through Collaborative Cloud Mapping: Challenges and Opportunities - Serena Coetzee	TS07 - SENATE I WORKSHOP Showcasing Hexagon Geospatial M.App Enterprise Technology in Census, mSCOA and Fire Risk Management - Keletso Malekela, Janet Channing & Nisbert Chimboza	TS08 - SENATE II WORKSHOP Workshop on TLS Live on Software - Barend Bormann	EXHIBITION HALL TOOLSHED Capturing Real-time 3D Data on the Move - Don't Get Left Behind! - Stephan van der Merwe & Sven van Duffelen	MEETING ROOM SADC GEOMATICS FORUM (BY INVITATION)
3:30 PM	TS09 - ASSEMBLY I MAPPING / SDG'S / BIM The Guenoc Island Project: Use of New Surveying/Scanning and GNSS Technologies to Help Archaeologist Better Understand it's History - Arnaud Lezennec The Monitoring and Analyses of Statistics for the Sustainable Development Goals using Smart M.Apps - Keletso Malekela Digital Construction - Bringing BIM into Reality - Mark King	TS10 - ASSEMBLY II LAND GOVERNANCE / LAND RIGHTS The Centrality of Valid and Reliable Data Infrastructure/s in Repurposing Land Administration - Siyabulela Manona Global Targets and Objectives - Making the International SDGs (Sustainable Development Goals) Real through Improved Land Administration and Information Systems - Siyabulela Manona & Jean du Plessis The Role of Civil Society Platform (CSP) and National Engagement Strategy in Promoting National Engagement and Application of SDGs, VGGTs (Voluntary Guidelines on the Responsible Governance of Tenure, FAG) and the Constitution in the Context of Hybrid Governance Systems in SA - Lisa del Grande, Siyabulela Manona & Jean du Plessis Anticipating the Future Trajectory of the Geomatics Profession and Tertiary-level Curricula in the light of land reform imperatives - Simon Hull	TS11 - JULIA LAND RECORDS / LAND MANAGEMENT Geospatial Analysis of Residential Satisfaction in Gauteng, South Africa - Tholang Mokhele Land Management for Housing Delivery in Lesotho - Challenges and Opportunities - Mamphaka Jeanett Mabesa Evaluation of the Low Income Housing Project using Soft Systems Methodology - Case study of Linakoteng Low Income Housing Project at Maseru Lesotho - Mamphaka Jeanett Mabesa	TS12 - FABIA I EDUCATION / CLIMATE CHANGE Smart Education Solutions in a Changing World - Sirosha Budram Spatializing the Modelled Impacts of Future Climate Change - a case study on wheat in the Western Cape - Michael Grant Wallace (Podium Style Talk) A Study of Motion Capture and Post-Processing Techniques - Keegan Smith (Podium Style Talk) X-Ray Image Segmentation - Chelsea Harvey	TS13 - FABIA II SPATIAL ANALYSIS & GEOCOMPUTATION Implementing a GIS Based Methodology for Determining Highly Vulnerable Rural Access Roads to a Changing Climate in Ethiopia - Kathryn Arnold Development and Morphological Classification of Service Catchments to Support Social Facility Distribution in South Africa - Zukisa Sogoni Adapting the Dyna-CLUE Model for Simulating Land Use and Land cover change in the Western Cape Province - Alize le Roux	TS14 - NCC WORKSHOP Microsurvey - Michael Bachinski	TS15 - SENATE I WORKSHOP Precision Airborne Mapping using Unmanned Integrated LIDAR/Imaging Systems - Mohamed Mostafa (Dr)	TS16 - SENATE II TUTORIAL Geomatics Code of Conduct - Peter Newmarch	OUTSIDE FACILITY DEMONSTRATION Leica GS18T the worlds fastest GNSS RTK Rover - Johan Erasmus	MEETING ROOM GISSA MEETING (BY INVITATION)
5:45 PM	NETWORKING FUNCTION (EXHIBITION HALL)									

**DAY 3 Wednesday 19th September 2018**

**ACADEMIC PAPERS**

7:30 AM	DELEGATE REGISTRATION								
9:00 AM	PLENARY SESSION DAY 3 KEYNOTE - Christoph De Preter - Bridging the Divide from GIS to Real-Time Location Intelligence KEYNOTE - Will Zhao - Integrating 2D and 3D Visualization and Analysis Seamlessly in GIS								
10:30 AM	TEA (EXHIBITION HALL) PLENARY SESSION DAY 3								EXHIBITION HALL PODIUM TALKS
11:00 AM	INVITED SPEAKER - Tandsizwe Mahluthshana (PPS) - Economy - Our Socio-Political and Economic Environment INVITED SPEAKER - Calvin Molongoana - Acting Deputy Director-General - STATSSA INVITED SPEAKER - Chris Williams Wynn - International Land Measurement Standards - Possibilities?								
12:30 PM	LUNCH (EXHIBITION HALL)								EXHIBITION HALL LIGHTNING TALKS
1:30 PM	TS01 - ASSEMBLY I MINING / TRANSPORT Towards Conceptualising Building Information Modelling for the Mining Industry - Faiq Javadi Comparison of Support Vector Machine and Maximum Likelihood Classification in and around Granite Quarries - Refilwe Suzan Moellets Using Accessibility to Investigate the Level of Integration of the Various Public Transport Systems within the City of Johannesburg - Antony Cooper	TS02 - ASSEMBLY II LAND GOVERNANCE / LAND RIGHTS PANEL - Expert comments and discussion on the case studies, arising from presentations and discussions - Aida Opoku-Mensah (UNECA), Jean du Plessis, Dr R Kingwill, Siyabulela Manona, Lisa del Grande Pulling the Threads Together: The Interface Between Land Governance and Geospatial Information Systems - Key issues and Recommendations	TS03 - JULIA MANAGING LAND USE Monitoring Land Use and Land Cover Change in the Keiskamma Catchment Area (South Africa) Using Landsat Imagery - Masonwabe Dyosi CopwatchSA: Towards EO-based Food Security Monitoring in South Africa - Nosiseko Mashiyi A Geospatially Integrated Farm Management System: Dynamic Land Use and Workforce Management - Nisbert Chimboza	TS04 - FABIA I EDUCATION / NAVIGATION / SPATIAL ANALYSIS Perceived Supply and Demand for GISc Knowledge and Skills in South Africa - Serena Coetzee Investigating the Impact of Different Types of Directions on Wayfinding Efficiency in an Informal Settlement - Serena Coetzee Using QGIS in Preparing the Electricity Distribution Area of Supply information for the National Energy Regulator of South Africa (NERSA) - Derrick Wells	TS05 - FABIA II SENSORS / MAPPING / TRACKING Accessing the Most Powerful Sensors - YOU - Kendall James Building Accessible Mobility Networks through Data Collection on Informally Run Transport Networks - Graeme Leighton Indoor Mapping: Asset and Facilities Management for Smarter Governance - Jason Pretorius	TS06 - NCC WORKSHOP Workshop on Processing UAV Data and What Pit Falls to Look at - Johan Erasmus	TS07 - SENATE I WORKSHOP Workshop on GIS Data Workflow - Pieter Otto	TS08 - SENATE II DEMONSTRATION LandStar7 - Corné Arlow	MEETING ROOM CONSAS MEETING (BY INVITATION)
3:00 PM	TEA (EXHIBITION HALL) CLOSING PLENARY SESSION								EXHIBITION HALL PODIUM TALKS
3:30 PM	GEOMATICS INDUSTRY - CHALLENGES - AN OPEN DISCUSSION - Nape Mojapelo (SAGC), Peter Newmarch (SAGI) & Morena Letsoa (GISSA) CLOSING OBSERVATIONS AND REMARKS								
4:00 PM	END								