



# BIG DATA & ARTIFICIAL INTELLIGENCE CONFERENCE

**29-30 JULY 2021, EMPERORS PALACE CONVENTION CENTRE,  
JOHANNESBURG, RSA**

## Objectives

- To learn from industry experts and global business leaders and share real-world use cases, success stories, and best practices.
- To tap into content helpful to your organisation in dedicated business and technology talks.
- To swap ideas with the industry peers in the field of big data.
- To understand the next generation technologies and techniques from the globe of Artificial Intelligence & Big Data
- To get a chance to explore and find out the practical and successful implementation of AI & Big data in driving forward your business for a better future.

## SPEAKERS

**Andre BLAAUW**  
Associate Director; Actuarial, Risk & Quants  
PwC

**Gerhard HATTINGH**  
Digital Enterprise Unit Lead  
SIEMENS

**Sudhish MOHAN**  
Chief Information Officer  
TRANSUNION

**Reginald MUDUNGE**  
Head; Data Science & Analytics  
RISK INSIGHTS

**Louise DE BEER**  
Head; Business Intelligence  
HARAMBEE

**SIEMENS**  
Ingenuity for life

**pwc**

**TransUnion**<sup>tu</sup>

**Risk Insights**  
futuristic risk management

**harambee**  
WORK FOR WORK

**BOOK NOW!!!**

TEL: +27 11 074 7095

E-MAIL: [info@bussynet.co.za](mailto:info@bussynet.co.za). WEB: <https://bussynet.co.za>

## Background

Petroleum has always been the driver of the world economy; and whoever controlled it had the keys to the world. But Big data maybe about to change that. Big data could be the next petroleum.

The race for big data has corresponded with a spike in the demand for data collection and information management specialists; so much so that software giants like Software AG, Oracle, IBM, Microsoft, SAP, EMC, HP and Dell have spent more than \$15 billion on software firms specialising in data management and analytics. In 2010, the big data market was worth more than \$100 billion and was growing at almost 10 percent a year; about twice as fast as the software business as a whole. This is the age of creative big data disruption.

At no time has big data been more important than when the COVID-19 pandemic broke out and disrupted everything in the world - in order to have the correct numbers on how badly their countries had been affected, governments needed data to determine which places people infected by the virus had visited, which groups of people they had been in contact with, and whether those people were alright. Governments and corporates can use big data's adoption of predictive analytics, user behaviour analytics and other advanced data analytics to spot business trends, prevent diseases, combat crime, among other operations. The applications of big data in governance in business operations was one of the reasons why the Big Data and Artificial Intelligence Conference was organised. Set to run on **the 29<sup>th</sup> and 30<sup>th</sup> of July 2021 at the Emperors Palace Convention Centre in Johannesburg**, the event will discuss how scientists, business executives, medical practitioners, advertising and governments can apply data analytics in areas including manufacturing, mining, financial technology, smart city and urban informatics, governance, meteorology, biology and environmental research.

Delegates to the conference will also get insights on how economies are increasingly using data-intensive technologies in their everyday operations and the results thereof; as they will about the latest data mining sciences available; the ethical uses of data so acquired and how to keep the data safe in the world sophisticated cybercrime.

## Target Audiences

- Sports
- Chief Information Officers
- Chief Data Officers
- Data Architects
- Data Analysts
- Data Scientists
- Data Steward
- Database Administrators
- Information Architects
- Metadata Modeler
- Chief Data Officer
- Data Modelers
- Researchers and Students
- Information Security Specialists
- IT Directors and Managers
- Database Administrators
- Cloud Technology Experts
- Application Developers
- Software Engineers
- Technology Specialists
- Project Managers
- Business Directors and Managers
- Software developers
- Business Development Executives
- Business Intelligence Professionals
- Advertising executives
- Health Practitioners
- Education professionals
- Media Practitioners
- Retail professionals
- Telecommunications Specialists
- Real Estate Managers
- Banking and Finance Executives
- Data Governance Managers

## Target Audience

- VP
- Directors
- Managers and Experts of IT
- Analytics and business intelligence leaders
- Analytics and BI practitioners
- Business analysts
- Data scientists
- Analytics and BI program leaders
- Information management and master data management
- Enterprise information leaders
- MDM program managers
- Data/information governance leaders
- Data management infrastructure managers
- Senior IT and business leaders
- Chief data officers (CDO Circle)
- Chief analytics officers (CDO Circle)
- Senior IT leaders
- Senior business leaders
- Architects
- Information architects
- Analytics and BI architects
- Enterprise architects
- Application architects and managers
- Marketing & other line of business executives
- CTO, CIO & technology executives
- Technology strategists & enterprise architects
- Business & technology leaders seeking to drive new business opportunities & outcomes through big data
- Mid to large-sized companies
- Enterprise spanning diverse major industries
- Data Scientists
- Data Engineers
- Data Analysts
- Software Developers
- Technical Leads
- Researchers
- System Architects
- Head Data Scientists
- Head Researchers
- IT Managers
- Entrepreneurs
- Business Analysts
- Business Strategist's
- Consultants
- Government
- International development
- Manufacturing
- Healthcare
- Education
- Media
- Insurance
- Internet of Things (IoT)
- Information Technology
- Utilities
- Information Technology
- Aviation
- Transport and Logistics
- Telematics
- Advertising and Marketing
- Wholesale and Retail
- Health and Medicine
- Key Account Managers
- Account Managers
- Municipalities
- Universities
- Finance and Banking
- Telecommunications and Media
- Manufacturing
- Insurance

## Topics of Discussion

- Data and analytics strategy
- Technology trends in data and analytics
- Customer analytics
- AI and machine learning
- Internet of Things
- Governance and trust
- Self-service data and analytics capabilities
- Data-driven culture
- Role of the chief data officer and chief analytics officer
- Data Science
- Data Engineering and Architecture
- Streaming and IoT
- Business Analytics and Visualization
- Automation in data science and data
- Security and Privacy
- Case studies and best practices
- Culture and organization
- Data and Governance
- Law and Ethics
- Anti-Forensics Techniques
- Application Security
- Authentication and Access Control Systems
- Critical Infrastructure Protection
- Cyber Warfare Trends and Approaches
- Denial-of-Service Attacks and Countermeasures
- Digital Forensics
- Enterprise Systems Security
- Executable Content and Content Filtering
- File and Files System Security
- Fraud Management
- Hardware Security
- Human-Computer Interaction and Security
- Identity Management
- Intellectual Property Protection
- Key Distribution and Management
- Network Infrastructure Security
- Operating Systems and Database Security
- Privacy and ethics
- Security in Cloud and Edge Computing/Social Networks
- Security of Web-Based Applications
- Emergency Response and Management
- Encryption and Cryptography
- Forecasting Terrorism
- Information Hiding
- Intrusion and Anomaly Detection and Prevention
- Investigation of Insider Attacks
- Malware Forensics and Anti-Malware Techniques
- Software Development
- Social Engineering
- Social Network Analysis
- Threats, Vulnerabilities, and Risk Management
- Economics of Security

## DAY 1: 29 JULY 2021

- 07:00** Registration and Networking
- 08:20** Opening Remarks
- 08:30** **In the front lines of data analytics: the complexities and realities of data mining**
- Bringing together data from disparate sources, and enabling use cases from BI to ML.
  - Keeping up with innovations — in other words, what's coming and how can you manoeuvre today to take advantage
- Invited Speaker: Turgay Celik: Professor: Wits University**
- 09:15** **Building a Modern Data Architecture**
- Resolving the conflict pitting Big Data against legacy data architectures.
  - Advantages of traditional data mining architecture and technologies and their relevance to the new dispensation
  - Designing a Data Architecture for Modern Business Intelligence & Analytics
- Invited Speaker: Clinton Reddy: Solution Consultant: Vantage Data**
- 10:00** Mid-morning Break
- 10:30** **The New World of Database Technologies**
- Game-changing technologies emerging in data management.
  - Understanding the trends occurring now and those on the horizon
  - Preparing organisations for the rapidly changing data landscape
- Louise de Beer: Head; Business Intelligence and Data Science: Harambee**
- 11:15** **How to Build Data Science Teams that align to the business strategy**
- Resourcing the team in line with EE
  - Bridging the gap between data and reporting
  - IoT in the financial sector
  - Case Study: Developing the first Machine Learning ESG model in South Africa
- Reginald Mudunge: Head; Data Science and Analytics: Risk Insights**
- 12:00** **Artificial intelligence and Big Data**
- AI powering digital transformation
  - Driving value from Enterprise AI
  - The Cognitive Enterprise
  - AI for Everyone
  - Deep Learning for Autonomous Vehicles AI
- Gerhard Hattingh: Digital Enterprise Unit Lead: Siemens**
- 12:45** **AI Technology Solutions**
- AI for social good
  - Designing ethical systems
  - Natural Language Generation
  - Funding your AI innovation
- Andre Blaauw: Associate Director, Actuarial, Risk & Quants: PwC**
- 12:45** LUNCH
- 13:45** **How to tackle fast moving data with real time insights and large-scale analytics**
- Trends in moving data – Cloud, Streaming Data, ML/AI, and IOT – and the challenges they present.
  - How big data technologies facilitate the capturing of data in motion from idiosyncratic data sources
  - Making real time decisions based on the data leveraging ML and facilitating the data analytics
  - Overcoming Big Data Integration Challenges
  - The best data mining methods
  - The best ways to digitize the new untapped and un-digitized wave of dark data
- Invited Speaker: Dale Seema: Data Science Mentor: Great Learning**
- 14:30** **Machine Learning Operationalisation: The transition from Academics to Economics AI**
- Ensuring that AI and Machine Learning realise their full economic potential to organisations.
  - AI and ML challenges that can impede leveraging of big data
  - The process of automating the deployment, management and scaling of their ML applications in production.
  - Case study of how Tyme Bank raised its client base using big data
- Invited Speaker: Dietmar Bohmer: Chief Data Scientist: Tyme Bank**
- 15:15** CLOSING REMARKS; END OF DAY 1

## DAY 2: 30 JULY 2021

- 08:20** Opening Remarks
- 08:30** **GDPR and the need for home-grown data privacy laws**
- Providing better data protection measures for our clients
  - Formulating Usable Security and Privacy laws relevant to people's needs, standards, and attitudes about their data
  - Privacy Threats of Big Data
  - Data governance
  - Big data operators and fair competition practices
  - Is data monopoly in the hands of the FAANG unethical?
  - Will Big Data database technologies be available in the future also for companies from the SME sector?
- Invited Speaker: TBA**
- 09:15** **The collision course between Big Data, dark data, AI, Privacy, Ethics and Regulations in the IoT world**
- Machine Learning Best Practices
  - Information as Competitive Advantage
- Invited Speaker: Jade Abbot: Senior Software and Machine Learning Engineer: Retro Rabbit**
- 10:00** Mid-morning Break
- 10:30** **Going beyond just the law in data protection measures**
- Big Data System Security and Integrity
  - Big Data Information Security
  - Enabling consumers to take control of their own data
- Sudhish Mohan: Chief Information Officer: TransUnion**
- 11:15** **Future technologies in big data applications in Africa**
- Addressing the challenges facing Africa's big data revolution
  - How big data could speed up Africa's development
  - Helping developing nations set up data collection initiatives for better governance
  - Building competency regarding to data collection
  - Sharing data to solve humanitarian crises
- Invited Speaker: Fred Saayman: Business Unit Manager: Pinnacle ICT**
- 12:00** **5G as a big data technology and achieving SDGs in the developing world**
- Holistic approaches to building 5G technology implements and taking advantage of the opportunities they create
  - The SDGs that could benefit from 5G technology in developing countries
  - Challenges to 5G realisation and how to overcome them
- Invited Speaker: Ekow Duker: Managing Director: Ixio Analytics**
- 12:45** CLOSING REMARKS; END OR PROCEEDINGS