Monday | 2\textsuperscript{nd} November

09:00 am: **Opening Remarks**  
Dr Vincent Ogutu | Vice Chancellor Designate, Strathmore University

**Presentations**

09:20 am: Zero emission energy generation and storage technology in addressing energy access in Africa: a demonstration project  
**Evan Murimi** | Strathmore University  
*Co-authors: Izael Da Silva, Thomas Bundi.*

09:40 am: Energy consumption patterns in urban informal settlements in Nairobi, Kenya: a case of Mukuru Slums  
**Ignatius Maranga** | Strathmore University  
*Co-authors: Mwaura Njogu, Izael Da Silva.*

10:00 am: Cost and benefit analysis of geothermal power generation in Kenya: focus on climate, health, and economic indicators  
**Helen Osiolo** | Strathmore University

10:20 am: A review of barriers and drivers of electric mobility in Kenya  
**Daniel Wekesa** | Energia Engineering Ltd (Kenya).  
*Co-authors: Patrick Mwanzia, Brian Wamukoya.*

10:40 am: **Short break**

11:00 am: Investigating influence of earth’s magnetic field on fill factor of p-Si photovoltaic solar cells  
**David Wekesa** | Multimedia University of Kenya  
*Co-authors: Martin Ndeto, Robert Kinyua, Francis Njoka*

11:20 am: Software defined radio techniques for IoT network tests  
**Leonard Mabele** | Strathmore University.  
*Co-authors: Vitalis Ozianyi, Joseph Sevilla.*

11:40 am: The measures aimed towards securing IoT devices  
**Joseph Shitote** | Strathmore University
Co-authors: Festus Morumbasi, Jonah Kipkorir, Stephen Ngetich, Stephen Gitahi.

12:00 pm: Utilising hybrid filtering to recommend personalised gifts
Rosanne Odiero | Strathmore University

12:20 pm: Using big data analytics to predict floods in Kenya
Alvin Igobwa | Strathmore University
Co-authors: Dennis Ndungu, John Olukuru, Joseph Sevilla

12:40 pm: Preparedness of saccos against cyber-attacks: a case study of sacco societies in Kenya
Mwesigwa Keith | Strathmore University
Co-authors: Richard Otolo.

01:00 pm: Long break

02:00 pm: Awaking guarantee in mobile wireless networks for autonomous vehicles based on stochastic mobility model
Totona Lonyeiye | Strathmore University
Co-authors: Ismail Ateya.

02:20 pm: Artificial intelligence application in eradicating fraud using voice biometric authentication in Africa mobile financial transactions
Robert Ayub Odhiambo | Strathmore University.
Co-authors: John Olukuru.

02:40 pm: Application of approximate matching on industrial control System (ICS) network communication using Ssdeep algorithm
Nelson Mutua | Strathmore University.
Co-authors: Petr Matoušek.

03:00 pm: Soil condition monitoring using low power wide area networks
Gift Neema | Strathmore University

03:20 pm: A secure hybrid IoT architecture using blockchain and decentralised VPN: a use case of smart farming
Madina Hilim-Peleke | Strathmore University

03:40 pm: End of conference day
Tuesday | 3rd November

09:00 am: Water flow monitoring and control using internet of things (IoT)  
Mboya Michael | Strathmore University

09:20 am: Comprehensive water smart metering infrastructure  
Daniel Machanje | Strathmore University.  
*Co-authors: Vitalis Ozianyi, Daniel Machanje, Eunice Manyasi, Brenda Cherono.*

09:40 am: Water quality and leak detection in pipeline monitoring using sensors: an IoT based solution  
Dennis Kaburu | JKUAT.  
*Co-authors: Stephen Gitahi.*

10:00 am: A review of performance of LORA technology on IoT-based smart water meter  
Eunice Manyasi | Strathmore University  
*Co-authors: Vitalis Ozianyi, Daniel Machanje, Brenda Cherono.*

10:20 am: Reliability of JA3 hashes for fingerprinting web browsers  
Malombe Victor | Strathmore University.  
*Co-authors: Petr Matoušek.*

10:40 am: **Short break**

11:00 am: Extended AES custom encryption  
Cyril Kinuthia | Strathmore University

11:20 am: Automatic licence plate recognition using computer vision  
Joseph Ihugo | Strathmore University

11:40 am: A computer vision based model for tomato plant nutrient and disease classification  
Raymond Kiyegga | Strathmore University.  
*Co-authors: Bernard Shibwabo.*

12:00 pm: Food distribution tracking mobile application using hybrid blockchain  
Deepali Bhatt | Strathmore University.  
*Co-authors: Benard Alaka.*

12:20 pm: **Seminar on qualitative research methods**  
Facilitator TBC
01:00 pm: Long break

02:00 pm: Managing Kenya’s universal health care coverage agenda post-Covid-19: a differential analysis of job satisfaction levels and influences across public, private and faith-based health service provision in Kenya
Ken Muma | Strathmore University
Co-authors: Vincent Ogutu, Andrew Levi.

02:20 pm: Using VR/AR for conservation of elephants, water sanitation and educational literacy
Rose Barasa | Strathmore University.
Co-authors: Bob Afwata, Ayan Keynan.

02:40 pm: Distribution pattern of Rothschild’s Giraffe (Giraffa camelopardalis rothschildi) in Ruma National Park and Mwea National Reserve, Kenya
George Njagi | Wildlife Clubs of Kenya (Kenya)
Co-authors: David Chiawo, Cecila Gichuki, Charlse Warui, Innocent Ngare.

03:00 pm: Influence of millennials buying behaviour on loyalty to hotel brands in Nairobi, Kenya
Josephine Muli | Strathmore University

03:20 pm: Service quality and customer satisfaction among hotels in Nairobi, Kenya
Stella Nyongesa | Strathmore University
Co-authors: Joy Mutinda.

03:40 pm: Application of cost leadership and differentiation strategies influencing occupancy performance of 3 to 5 star hotels in Nairobi, Kenya
Rose Abidha | Strathmore University

04:20 pm: End of conference day
Wednesday | 4th November

09:00 am: Raising the bar? Top management teams, gender diversity, and environmental sustainability
Edward Mungai | Kenya Climate Innovation Center (Kenya)
*Co-authors: Simon Nderitu.*

09:20 am: Meaning and measurement of internal audit effectiveness: a structured literature review
James Odero | Kenya Bankers Association
*Co-authors: David Wang’Ombe, James McFie.*

09:40 am: Interest rate spread and bank performance: an examination of equity market reaction and consumer response in Sub-Saharan Africa
Jane Ngaruiya | Strathmore University
*Co-authors: David Mathuva, Pat Obi.*

10:00 am: Panel analysis of the effect of weather variability on sectoral output in Kenya
Olga Nekesa Mulama | Strathmore University.
*Co-authors: Caroline Wanjiru Kariuki.*

10:20 am: Antecedents, outcomes and moderators of product innovation strategy in manufacturing SMEs
Ismaila Abubakar | Adamawa State Polytechnic (Nigeria)
*Co-author: Rabiu Sani*

10:40 am: Short break

11:00 am: Bilateral investment treaties, foreign direct investment and environmental degradation in Sub-Saharan Africa
Luksman Afolabi | Kabale University (Uganda)
*Co-authors: Patrick Ejumedia, Adebusmi Oduoye-Ejumedia.*

11:20 am: The determinants of U.S. coffee import volumes from Uganda under the African Growth And Opportunity Act, 2000 (AGOA)
Gabriel Olila | United Nations (Kenya).
*Co-authors: Caroline Kariuki.*

11:40 am: Adoption of cleaner production by firms and stakeholders pressures in Kenya
Edward Mungai | Strathmore University
*Co-authors: S. Wagura Ndiritu, Tazeeb Rajwani.*
12:00 pm:  Use of insurance as a tool to regulate an industry: a case of the salon industry Nairobi  
**Caroline Mbugua** | Strathmore University

12:20 pm:  Internet reverse payment model: a model for sustainable academic resource accessibility  
**Getrude Gichuhi** | Strathmore University  
*Co-authors: Stephen Gitahi.*

12:40 pm:  Human capital, governance and foreign direct investment: evidence from Sub-Saharan Africa  
**Fatima Kabaru** | Strathmore University  
*Co-authors: Caroline Kariuki.*

01:00 pm:  **Long break**

02:00 pm:  The relationship between happiness and income in the East African Community  
**Jeniffer Karanu** | Strathmore University  
*Co-authors: Caroline Kariuki.*

02:20 pm:  Open government in Kenya: hotspot identification for county integrated development planning  
**Jacqueline McGlade** | Strathmore University  
*Co-authors: Rosemary Okello-Orlale.*

02:40 pm:  Agricultural policy and practice in Africa: neo-colonial and progressive aspects  
**Alice Karuri** | Strathmore University

03:00 pm:  Oceans of plastic: global governance and market failure  
**Jacqueline McGlade** | Strathmore University

03:20 pm:  Does adoption of drought preparedness strategies improve pastoralists’ food security? Empirical evidence from the semi-arid lands, Laikipia county, Kenya  
**S. Wagura Ndiritu** | Strathmore University

03:40 pm:  Traffic enforcement funding policy considerations  
**Deo Chimba** | Tennessee State University (USA)

04:00 pm:  **End of conference day**
Thursday | 5\textsuperscript{th} November

09:00 am: Climate-induced food crisis in Africa: balancing act between policy and adaptation
\textbf{David Chiawo} | Strathmore University
\textit{Co-authors: Verrah Otiende.}

09:20 am: Using data analytics to scale crop insurance for small scale farmers
\textbf{Kelvin Bett} | Strathmore University.
\textit{Co-authors: John Olukuru.}

09:40 am: Big data analytics and feasibility of making Africa food secure by 2030: a path to attaining SDG 2 in developing economies
\textbf{Victor Sang} | Strathmore University.
\textit{Co-authors: John Olukuru.}

10:00 am: Program for Family Development: insights on data over 2013-2019 period and data analytics approaches
\textbf{Raymond Mutura} | Strathmore University

10:20 am: Creating an African showcase for the circular bioeconomy
\textbf{Jacqueline McGlade} | Strathmore University
\textit{Co-authors: Izael Da Silva, Rosemary Okello-Orlale.}

\textbf{10:40 am: Short break}

11:00 am: The economic impact of COVID-19 and the effectiveness of policy responses in different African regions
\textbf{Robert Mudida} | Strathmore University
\textit{Co-authors: Innocent Rugaragu.}

11:20 am: Mathematical modelling to assess the impact of NPIs restriction lifting on COVID-19 diffusion in Kenya
\textbf{Rachel Waema Mbogo} | Strathmore University

11:40 pm: Burden of prehypertension among adults in Kenya: a retrospective analysis of findings from the Healthy Heart Africa (HHA) Programme
\textbf{Collins Odhiambo} | Strathmore University

12:00 pm: How much does effective health facility inspection cost? An analysis of the economic costs of Kenya’s Joint Health Inspection innovations
\textbf{Timothy Chege} | Strathmore University.
\textit{Co-authors: Francis Wafula, Catherine Goodman, Eric Tama, Irene Khayoni, Dosila Ogira, Gilbert Kokwaro, Njeri Mwaura.}
12:20 pm: The assimilation of e-health systems in Kenya: a status report
Patrick Shabaya | Strathmore University
Co-authors: Gregory Wanyembi, Ismail Ateya.

12:40 pm: Long break

02:00 pm: Changing landscape of political participation: women's political participation in Kenyan urban informal settings
Wandia Musyimi | Anjarwalla and Khanna (Kenya)

02:20 pm: Examining the misconstruction of traditional knowledge: a consequence of Eurocentric epistemological exclusion
Butera Michael | Strathmore University

02:40 pm: ‘Value in use’ or ‘value in exchange’: the utility of state sovereignty of countries in the global south in the regulation of international economic relations
Moses Odhiambo | Strathmore University

03:00 pm: An evaluation of ethical frameworks for the use of artificial intelligence and their application to use cases in Kenya
Oscar Correia | Strathmore University

03:20 pm: Role of ICT in lifelong learning of disabled children: a review
Musa Shuaibu | Jigawa State Polytechnic (Nigeria)

03:40 pm: End of conference day
Friday | 6th November

09:00 am: Seminar on securing funding for research
Michael Nzau | Grants Manager, Strathmore University

10:00 am: Netnography and its use in communication research in Africa
Stephen Macharia | Strathmore University

10:20 am: From Rwanda to Benin through Tanzania: evaluating the ‘peculiarities’ informing states’ withdrawals from the African Court
Robert Nanima | Dullah Omar Institute (South Africa).

10:40 am: The fate of data security in Kenya: evaluating the efficacy of the Data Protection Act in safeguarding privacy
Wanditi Gathumbi | Strathmore University

10:40 am: Short break

11:00 am: Legislating ‘coercive control’ in Kenya: a study of the protection against domestic violence act
Wabia Karugu | Strathmore University

11:20 am: Asking for young offenders: what is the place of restorative justice in the Nigerian criminal justice system?
Collins Okoh | Strathmore University

11:40 am: An evaluation of the role and contribution of Article 59 commissions in securing constitutionalism in Kenya
Francis Khayundi | USIU-Africa (Kenya)

12:00 pm: Closing remarks
Prof Izael Da Silva | Deputy Vice Chancellor, Research and Innovation

12:15 am: End of conference