

Special Session 2.1. Internet of Things and Data Science

Saturday 29 November 13:00 – 15:00

Special Session Organizers and Chairs:



Dr. Damien Hanyurwimfura

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Kigali, Rwanda

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Dr. Emmanuel Masabo

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Dr. Louis Sibomana

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<https://scholar.google.com/citations?user=quGMFtwAAAAJ&hl=en>

- 1. A study on public key infrastructure and fingerprint enabled solution for land administration information system in Rwanda Case of transaction by land sell**
Arielle Nshuti, Innocent Kabandana and Emmanuel Masabo
- 2. Smart Car Parking System in Rwanda**
Esperance Nyiransabimana, Emmanuel Ndashimye and Richard Musabe
- 3. Energy Efficient System and Forecasting Algorithm for Smart Home**
Angel Gabriel Meela, Damien Hanyurwimfura and Abubakar Diwani
- 4. POWER OPTIMIZATION BASED ON FUZZY INFERENCE SYSTEM AND IoT, Case study: University of Rwanda, College of Science and Technology, Agaciro Block Building**
Jean Louis Niragire, Damien Hanyurwimfura and Said Rutabayiro Ngoga

5. **Application of Computing Techniques in Monitoring Black Tea Processing for Improved Quality: Review and Future Directions**
Gibson Kimutai, Anna Forster, Alexander Ngenzi and Rutabayiro Ngoga Said
6. **An IoT based embedded gateway for Smart health-care (IoTEGH) management**
Jean Aime Ndabahariye, Evariste Twahirwa, Damien Hanyurwimfura, Didacienne Mukanyiligira and James Rwigema
7. **Machine-Learning-Based Prediction Method for easy COPD classification Based on Pulse Oximetry clinical use**
Claudia Abineza, Valentina E. Balas, NSENGIYUMVA Philibert and UMUHOZA Eric
8. **IoT based Milk Monitoring in Rwanda**
Deny Beny Kamuhanda, Damien Hanyurwimfura and Philibert Nsengiyumva
9. **IoT based Monitoring System for Authorized retail freezer contents for beverage Companies**
Sarah Nawoya, Emmanuel Ndashimye and Emmanuel Masabo
10. **Aflatoxin prevention in post-harvest maize: A case study of maize storage facilities in Rwanda**
Margaret Bamurebe, Emmanuel Masabo and Alfred Uwitonze
11. **Employing Machine Learning and Internet of Things for Malaria Outbreak Prediction in Rwanda**
Janvier Niyitegeka, Didacienne Mukanyiligira, Said Rutabayiro Ngoga, Emmanuel Masabo, Louis Sibomana and Raymond Ndacyayisaba
12. **Health monitoring system using Lopy4, Raspberry and tig stack**
Khalfan Mbazumutima and Joel Joël Toyigbé Hounsou