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Black in AI Workshop 2022

co-located with NeurIPS 2022

Black in AI increases the presence and inclusion of Black people in the field of AI by creating space for sharing ideas, fostering collaborations, mentorship and advocacy. www.blackinai.org.

Nov 28th - Workshop Schedule - Room 288-289
New Orleans Convention Center

(Time Zone: CST)*

09:40 AM	**Opening Remarks**
09:50 AM	**Invited Talk 1: Cross-lingual Transfer for Named Entity Recognition: A study on African Languages.** *David Ifeoluwa Adelani (University College London)*
10:35 AM	**Q&A**
10:50 AM	**Contributed Talk 1: Unsupervised convolutional neural networks-based 3D reconstruction from 2D medical images guided by generative models.** *Jean-Rassaire Fouefack (Isen Yncréa Ouest and LaTIM INSERM U1101)*
11:05 AM	**Contributed Talk 2: COVID-19 Radio ASR: Analyzing community voices from radio broadcasts for public health planning, response and policy.** *Jonathan Mukiibi (Makerere University)*
11:20 AM	**Contributed Talk 3: Stronger is not better: Better Augmentations in Contrastive Learning for Medical Image Segmentation.** *Azeez Idris (Iowa State University)*
11:35 AM	**Contributed Talk 4: Re-QGAN: an optimized adversarial quantum circuit learning framework.** *Anais Sandra Nguemto Guiawa (University of Tennessee Knoxville)*
11:50 AM	**Q&A for Contrib Talks 1, 2, 3, 4**
12:10 PM	**Mentoring session: "Preparing for a career after graduation"**

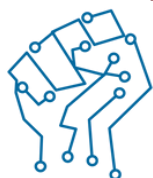## Black in AI 2022 Workshop Sponsors

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(Time Zone: CST)*

1:00 PM	**Lunch Break**
2:30 PM	**Invited Talk 2: Learning scene and video understanding with limited labels.** *Mennatullah Siam (York University)*
3:15 PM	**Q&A**
3:30 PM	**Contributed Talk 5:Predictive Multiplicity in Probabilistic Classification.** *Jamelle Watson-Daniel (Harvard University)*
3:45 PM	**Contributed Talk 6: End-to-End Multilingual Automatic Speech Recognition for Less-Resourced Ethiopian Languages.** *Martha Tachbelie (Addis Ababa University)*
4:00 PM	**Contributed Talk 7:Towards Effective Speech-based AI in the Classroom: The Case of AAE-Speaking Children.** *Alexander Johnson (UCLA)*
4:15 PM	**Q&A for Contrib Talks 5, 6, 7**
4:30 PM	**Joint Affinity Poster Session**
5:30 PM	**Workshop Ends**

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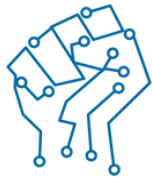
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Mon 28 Nov - 4:30 PM (CST Timezone)

Predictive Multiplicity in Probabilistic Classification
Jamelle Watson-Daniels (Harvard University)*; David Parkes (Harvard University); Berk Ustun (UCSD)

Towards trustworthy AI-based algorithms in healthcare: A case of medical images
Mbangula Lameck ML Amugongo (Technischen Universität München)*

Improving neural machine translation for low-resource languages using related language resources
Atnafu Lambebo Tonja (Instituto Politécnico Nacional (IPN), Centro de Investigación en Computación (CIC))*; Olga Kolesnikova (Instituto Politécnico Nacional (IPN), Centro de Investigación en Computación (CIC))

Unsupervised convolutional neural networks-based 3D reconstruction from 2D medical images guided by generative models
Jean-Rassaire Fouefack (Isen Yncréa Ouest and LaTIM INSERM U1101)*

Machine Learning Model for Early Detection of Irish Potato Diseases Based on Crop Imagery Data
Hudson C Laizer (Mbeya University of Science and Technology)*

Accurate Machine-Learning-Based classification of Leukemia from Blood Smear Images
Simon Mekit (Ethiopian Academy of Sciences)*; Kokeb Dese (School of Biomedical Engineering, Jimma University)

Towards Effective Speech-based AI in the Classroom: The Case of AAE-Speaking Children
Alexander Johnson (UCLA)*; Abeer Alwan (UCLA); Alison Bailey (UCLA); Robin Morris (Georgia State University); Julie Washington (University of California, Irvine); Mari Ostendorf (University of Washington)
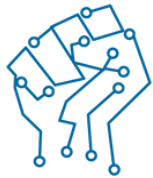
OCR System for the Recognition of Ethiopic Real-Life Documents
Tesfahunegn M Mengistu (Bahir Dar University)*

Assisted Learning of New Languages via User Defined and Phoneme Parameterized Pronunciations
Amanuel N Mersha (Addis Ababa Institute Technology)*; Stephen Wu (University of Texas Health Science Center at Houston)

Ensemble of CNN Models for Tuberculosis Diagnosis
Mustapha O Oloko-oba (University of KwaZulu-Natal, Durban)*

DynamicViT: Faster Vision Transformer
Amanuel N Mersha (Addis Ababa Institute Technology)*; Samuel A Assefa (J.P. Morgan AI)

Towards trustworthy AI-based algorithms in healthcare: A case of medical images
Mbangula Lameck ML Amugongo (Technischen Universität München)*

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YOSM: Yorùbá Sentiment Corpus for Movie Reviews
Iyanuoluwa Shode (Montclair State University); David Ifeoluwa Adelani (DeepMind); Anna Feldman (Montclair State University)*

Interactive Video Saliency Prediction: The Stacked ConvLSTM Approach
Natnael A Wondimu (Addis Ababa University); Cedric Buche (ENIB); Ubbo Visser (University of Miami)*

NigerianPidgin++: Towards End-to-End training of an Automatic Speech recognition system for Nigerian Pidgin Language
Amina Mardiyyah Rufai (African Institute for Mathematical Sciences); Abeeb A Afolabi (HARBIDEL TECHNOLOGIES); Daniel Ajisafe (African Institute for Mathematical Sciences); Oluwabukola Adegboro (African Institute for Mathematical Sciences); Odunayo E Oduntan (Chrisland University Abeokuta, Nigeria); O.T. Arulogun (Ladoke Akintola University of Technology, Ogbomoso)*

Convolutional Neural Network deep learning model for early detection of streak virus and lethal necrosis in maize: A case of Northern-highlands, Tanzania
Flavia Stephen Mayo (The Nelson Mandela African Institution of Science and Technology); Neema Mduma (The Nelson Mandela Institution of Science and Technology)*

Development of a Model to Classify Skin Diseases using Ensemble Machine Learning Techniques
Oluwayemisi Jaiyeoba; Temitope Owolabi; Emeka Ogbuju - (Federal University Lokoja)*

Studying Bias in GANs through the Lens of Race
Vongani H Maluleke (University of California, Berkeley); Neerja Thakkar (University of California, Berkeley); Tim Brooks (UC Berkeley); Ethan Weber (UC Berkeley); Trevor Darrell (UC Berkeley); Alexei A Efros (UC Berkeley); Angjoo Kanazawa (University of California Berkeley); Devin Guillory (UC Berkeley)*

Assessing Schistosomiasis transmission dynamics with heterogeneous intermediate host: A modeling study
Chidozie CW Chukwu (Wake Forest University)

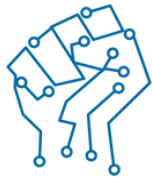**Set2Set Transformer: Towards End-to-End 3D Object Detection from Point Clouds**
Yeabsira E Tessema (Korenti Craft Technologies); Abel Mekonnen (Korenti Craft Technologies); Michael Desta (Korenti Craft Technologies); Selameab Demilew (Korenti Craft Technologies)*

Dissecting the Genre of Nigerian Music with Machine Learning Models
Sakinat O Folorunso (Olabisi Onabanjo university)

Impact of Feedback Type on Explanatory Interactive Learning
Misgina Tsighe Hagos (University College Dublin); Kathleen Curran (UCD); Brian Mac Namee (University College Dublin)*

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Image Segmentation of Radio Interferometric Images Using Deep Neural Networks
Sydil R Kupa (Rhodes University); Marcellin M Atemkeng Teufack (Rhodes University); Kshitij Thorat (University of Pretoria); Oleg Smirnov (SKASA, Rhodes University)*

Prediction of the ability and motivation to adopt Reproductive Health Behavioural change using anonymized customer center audio data
Olubayo Adekanmbi (Data Science Nigeria); Toyin Adekanmbi (Data Science Nigeria)*

Crowdsourcing-Powered Machine Learning Application for Fake Message Validation and Localized Instant Response Platform in Disaster Management
Olubayo Adekanmbi (Data Science Nigeria)

Building Identification In Aerial Imagery using Deep learning
Proscovia Nakiranda (Stellenbosch University); Trienko Grobler (Stellenbosch University)*

Privacy-Preserving Online Mirror Descent With Single-Sided Trust for Federated Learning
Olusola Odeyomi (North Carolina A & T State University); Gergely Zaruba (University of North Texas)*

Segmentation of Tuta Absoluta's Damage on Tomato Plants: A Computer Vision Approach
Loyani K Loyani (The Nelson Mandela African Institution of Science and Technology)

Pre-operative glioma grade prediction from multi-modal MR images based on an ensemble of deep learning models
Abdela A Mossa (University of Gondar and Emerald International College, Ethiopia); Ulus Cevik (Cukurova University); Muhammed Hissien Bilal (Jigjiga University)*

Ethical Challenges Facing Data-Driven Policing: A Review
CHIBUZOR JOSEPH okocha (university of benin)

End-to-End Multilingual Automatic Speech Recognition for Less-Resourced Ethiopian Languages
Martha Yifiru Tachbelie (Addis Ababa University)

Cocoa Beans Classification Using Enhanced Image Feature Extraction Techniques and A Regularized Artificial Neural Network Model
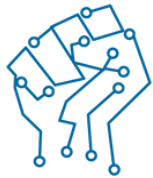*Eric Opoku (Savana Signatures)*; Rose-Mary Owusuaa Mensah Gyening (Kwame Nkrumah University of Science and Technology); Obed Appiah (UENR)*

Separate and Extract a Mixed Audio Using Deep Learning
Wesagn D Chemma (MoF)

Imitation from Observation With Bootstrapped Contrastive Learning
Medric Sonwa (University of Montréal); Johanna Hansen (McGill University); Eugene Belilovsky (Mila)*

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Comparison of Classification Algorithms for Predicting Completeness of Measles Vaccination
Peter O Ohue (University of Ibadan)*; Oluyemi Okunlola (University of Medical Sciences Ondo)

Deep Learning-Based Multi-Vehicle Tracking Model with Speed Estimator for the MLK Smart Corridor in Downtown Chattanooga, TN
Yasir Hassan (Center for Urban Informataics and Progress)*

INTEGRATING SOIL NUTRIENTS AND LOCATION WEATHER FOR CROP YIELD PREDICTION
Emeka Ogbuju (Federal University Lokoja)*; Nkechi Dekanu (Federal University Lokoja); Ebenezer Oladipe (Federal University Lokoja)

Towards Afrocentric AI
Ife Adebara (University of British Columbia)*

Evaluation of Convolutional Neural Network and Gradient Boosting Methods for Bug Severity Classification
Aminu Ahmad (Central South University, Changsha)*

Re-QGAN: an optimized adversarial quantum circuit learning framework
Anais Sandra Nguemto Guiawa (University of Tennessee Knoxville)*

COVID-19 Radio ASR: Analyzing community voices from radio broadcasts for public health planning, response and policy
Jonathan Mukiibi (Makerere University)*

COVID-19 Radio ASR: Analyzing community voices from radio broadcasts for public health planning, response and policy
Jonathan Mukiibi (Makerere University)*

Enabling Integration and Interaction for Decentralized Artificial Intelligence in Airline Disruption Management
Kolawole Ogunsina (N/A)*

Predicting the Level of Anemia among Ethiopian Pregnant Women using Homogeneous Ensemble Machine Learning Algorithm and Deploy on Cloud-based Framework
Belayneh E Endalamaw (university of Gondar)*; Tesfamariam Abuhay (University of Gondar); Dawit Shibabaw (University of gondar Ethiopia)

Detecting gender bias in pre-trained language models for zero-shot text classification
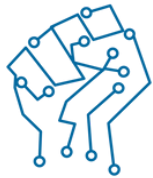*Nile E Dixon (Northcentral University)**

Learning to Mitigate AI Collusion on E-Commerce Platforms
Eric Mibuari (Harvard University)*; Gianluca Brero (Brown University); David Parkes (Harvard University); Nicolas Lepore (Harvard University)

Temporal Cycle Consistency: for a Video-to-Video Translation
Kirubel Abebe Senbeto (Woldia University)*

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An instance segmentation approach for automatic insulator defect detection
ELDAD Antwi-Bekoe (AKENTEN APPIAH-MENKA UNIVERSITY OF SKILLS TRAINING AND ENTREPRENEURIAL DEVELOPMENT (AAMUSTED))*

Unsupervised annotation of differences between genomic datasets
Eman Asfaw (iCog-Labs)*

Using Epidemic Multi-agent Synthetic Datasets for Predictions in Communication Networks: An LSTM Perspective
Chukwunonso H Nwokoye (Nnamdi Azikiwe Universitty, Awka)*; Chukwuemeka Etodike (NnamdiAzikiwe University, Awka); Queen Nkechi Chigbue (Nnamdi Azikiwe University)

A Survey of Ensemble Learning: Concepts, Algorithms, Applications, and Prospects
Ibomoiye Domor Mienye (University of Johannesburg)*

Simulating Health Time Series by Data Augmentation
Louis A Gomez (Stevens Institute of technology); Adedolapo A Toye (Stevens Institute of Technology); Robert Hum (Mcgill University); Samantha Kleinberg (Stevens Institute of Technology)*

Crop Recommendation for Precision Agriculture using Machine Learning techniques – Towards a More Sustainable Agriculture
Damilola Adegoke (Data Scientists Network)*

Gender Bias Evaluation in Luganda-English Machine Translation
Eric Peter Wairagala (Makerere University)*

Learning by Injection: Attention Embedded Recurrent Neural Network for Amharic Text-image Recognition
Tariku A Gelaw (Ethipian Biotechnology Institute)*; Birhanu Hailu Belay (Bahir Dar Institute of Technology); WELEKIROS GEBREHIWOT GEBRESLASIE (AI Institute)

Enhancing Epidemiological Surveillance Systems Using Dynamic Modeling: A Scoping Review
ADEGBOYEGA MR ADEBAYO (NATIONAL OPEN UNIVERSITY NIGERIA)*

The Effects of Acoustic Features of Speech on the Performance of an Automatic Speaker Recognition
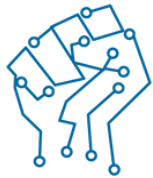*Tumisho B Mokgonyane (University of South Africa)**

Speech Emotion Recognition
Joy Ojochide Bello (Federal University Lokoja)*; Taiwo Kolajo (Department of Computer Science, Federal University Lokoja, Kogi State, Nigeria)

Mobile-PDC: High-Accuracy Plant Disease Classification for Mobile Devices
Samiiha Nalwooga (Stockholm University)*; Henry Mutegeki (Makerere University)

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MKA-Net: Multi-Kernel Attention Conv-Network
Abenezer G Girma (North Carolina A&T State University)*; Nana Kankam B Gyimah (North Carolina Agricultural and Technical State University)

Surface Defect Detection: A comparative analysis of Deep Learning-based Frameworks
Nana Kankam B Gyimah (North Carolina Agricultural and Technical State University)*; Abenezer G Girma (North Carolina A&T State University)

Stronger is not better: Better Augmentations in Contrastive Learning for Medical Image Segmentation
Azeez Idris (Iowa State University)*; Abdurahman Ali Mohammed (Iowa State University); Samuel Fanijo (Iowa State University)

Deepware: Imaging performance counters with deep learning to detect ransomware
Gaddisa Olani Ganfure (Dire Dawa University)*; Yuan-Hao Chang (Academia Sinica)

DEEP LEARNING BASED AFAAN OROMO HATE SPEECH DETECTION
Gaddisa Olani Ganfure (Dire Dawa University)*

Domain-Specific Lexicon-Based Sentiment Analysis using Contextual Shifter Patterns
Shamsuddeen Mr Muhammad (Bayero University, Kano)*

FacEDiM: A Face Embedding Distribution Model for Few-Shot Biometric Authentication of Cattle
Meshia Cédric Oveneke (Fit-For-Purpose Technologies)*; Rucha Vaishampayan (Fit-For-Purpose Technologies); Deogratias Lukamba Nsadisa (Fit-For-Purpose Technologies); Jenny Ambukiyenyi Onya (Fit-For-Purpose Technologies)