Black in AI

Black in AI Accepted Papers - Joint Affinity Poster Session
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 (Isew Yncrea 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)*
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.

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**YO5M: 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 Ajolabi (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**
Oluyemisi Jaiyeoba*; Temitope Owolabi; Emeka Ogbutu - (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 (Koreniti Craft Technologies); Selameab Demilew (Koreniti 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**
Misgino Tsighe Hagos (University College Dublin)*; Kathleen Curran (UCD); Brian Mac Namee (University College Dublin )
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 multimodal 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)
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 Informatica 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 J)*

Re-OGAN: 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 Mukibi (Makerere University)*

COVID-19 Radio ASR: Analyzing community voices from radio broadcasts for public health planning, response and policy
Jonathan Mukibi (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 University, Awka)*; Chukwuemeka Etodike (NnamdiAzikiwe University, Awka); Queen Nkechi Chigbue (Nnamdi Azikiwe University)

  Ibomoiyi Domor Mienye (University of Johannesburg)*

- Simulating Health Time Series by Data Augmentation
  Louis A Gomez (Stevens Institute of technology); Adedolapo A Toyе (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
  Damiola 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 (Ethiopian 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
  ADEGOYEGA 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 Dowa University)*; Yuan-Hao Chang (Academia Sinica)

DEEP LEARNING BASED AFAAN OROMO HATE SPEECH DETECTION
Gaddisa Olani Ganfure (Dire Dowa 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 Ambukiyen Onya (Fit-For-Purpose Technologies)