

DIVERSITY & INCLUSION

DIVERSITY IN AI Vancouver 2019

Women In Machine Learning

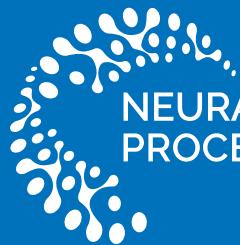
Black In AI

LatinX In AI

Queer In AI

{Dis} Ability In AI

Jews In AI



NEURAL INFORMATION
PROCESSING SYSTEMS

Diversity and Inclusion Chairs

Katherine Heller (Duke University & Google)
Charles Isbell (Georgia Tech)

NeurIPS Code Of Conduct

PURPOSE

We the participants, employees, and other individuals involved with Neural Information Processing Systems, come together for the open exchange of ideas, the freedom of thought and expression, and for respectful scientific debate which is central to the goals of this Conference. This requires a community and an environment that recognizes and respects the inherent worth of every person.

RESPONSIBILITY

All participants, organizers, reviewers, speakers, sponsors, and volunteers (referred to as "Participants" collectively throughout this document) at our Conference, workshops, and Conference-sponsored social events---are required to agree with this Code of Conduct both during an event and on official communication channels, including social media.

Sponsors are equally subject to this Code of Conduct. In particular, sponsors should not use images, activities, or other materials that are of a sexual, racial, or otherwise offensive nature. This code applies both to official sponsors as well as any organization that uses the Conference name as branding as part of its activities at or around the Conference.

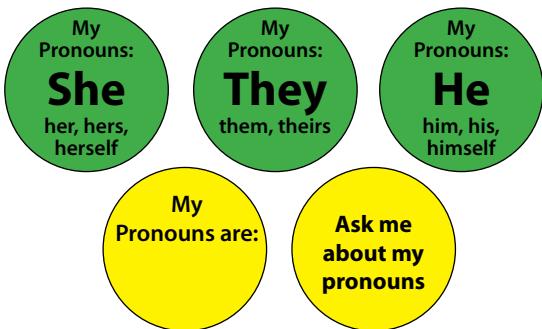
Organizers will enforce this Code, and it is expected that all Participants will cooperate to help ensure a safe and inclusive environment for everyone.

The full Policy is at this link:

<https://nips.cc/public/CodeOfConduct>

Pronouns

At NeurIPS, we are dedicated to respecting every person's gender identity and expression. As part of our efforts to create a respectful atmosphere, we will be providing pronoun stickers. We ask that participants avoid assuming pronouns of others. We encourage everyone to wear stickers on their badges, even if they tend to be comfortable with the pronouns others assume for them.



NeurIPS HR Consultant



Cathy Francis, SPHR
Karacal Communications
Neuripshotline@gmail.com
(858) 208-3810

Cathy Francis serves as the Human Resources Consultant and Hotline Relations Counselor for NeurIPS. Over the course of her career, she has successfully investigated employee relations cases for her clients and the employee/member populations within those groups. Her vast experience in this regard aids her in working to achieve satisfactory outcomes. Cathy will work proactively with us as we strive to ensure collaborative exchanges and interactions for all Conference attendees and participants. Her extensive experience in this field, and track record of success supporting organizations within the realm of human relations, makes her an ideal choice to uphold the diversity and inclusion efforts of NeurIPS.

After earning a Bachelors Degree in Business/Personnel Management (magna cum laude) from National University, she went on to earn a Masters Degree in Human Resources Development from the University of Redlands. She then earned the professional accreditation of a Senior Professional in Human Resources (SPHR) from the Personnel Accreditation Institute. She is also a Certified Trainer for DISC Assessments, Blanchard Situational Leadership, and AB1825/SB1343 CA Harassment Training.

Cathy will be on site during the entire duration of the 2019 Conference in order to assist our attendees as needed in support of our efforts to safeguard the NeurIPS Code of Conduct and the professional interactions of all who attend. During the Conference she can be reached by contacting the Registration Desk or by calling the NeurIPS hotline number at (858) 208-3810.

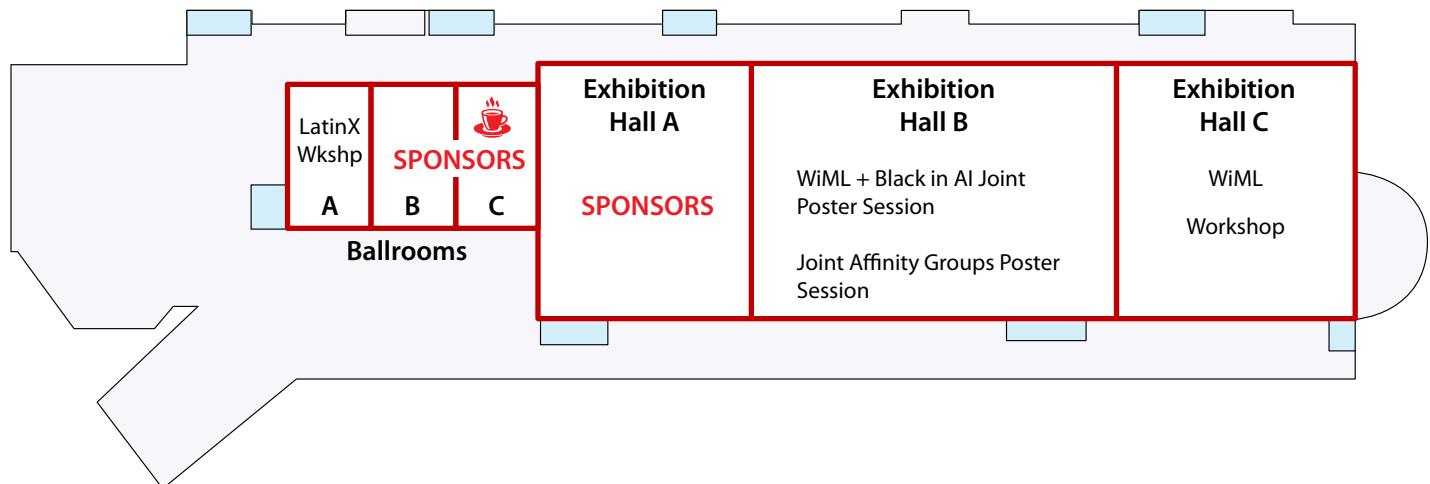
Where Everyone Has A Voice

The Board of Directors of NeurIPS has developed the video **Where Everyone Has a Voice** to further demonstrate and express its commitment to ensuring fairness and equality to all that attend the NeurIPS Conference. Our goal is to create a forum that fosters inclusion for all as we strive to build a supportive community for those that participate. All suggestions are encouraged and appreciated as we move forward. You can watch it here:

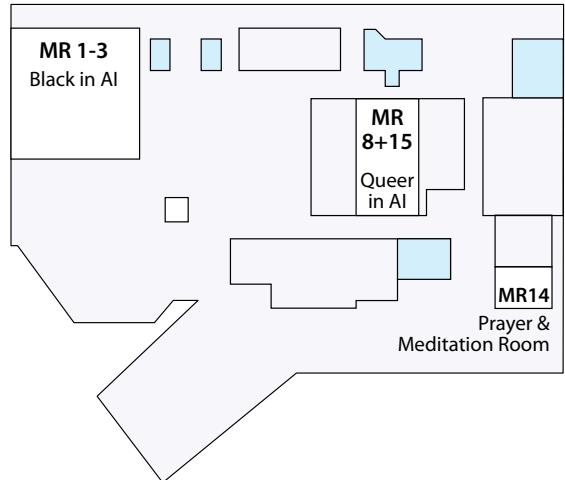
<https://youtu.be/iSkmYfrvVSw>

Affinity Groups Events - Location Maps

EAST EXHIBITION LEVEL



EAST MEETING LEVEL



Additional Services Offered

NeurIPS is also offering additional rooms for mothers and those with religious needs. Additional maps are provided in the main conference book.

Nursing Room for Mothers

West Level 1

Prayer & Meditation Room

East Meeting M14

Child Care Rooms

West Level 201 & 210

(registration IS required)

Sign language Interpreter services available all week upon request

Workshops and Panels

WiML Workshop	East Exhibition Hall C
Mon. 7am to 5pm	
Black in AI Workshop	East Exhibition Hall C
Mon. 7am to 6pm	East Meeting Level 1+2+3
LatinX in AI Workshop	East Ballroom A
Mon. 7am to 5:30pm	
Queer in AI Workshop	East Meeting Level 8+15
Mon. 2pm to 5pm	
{Dis} Ability in AI Panel	Location TBA
Thur. 7pm	

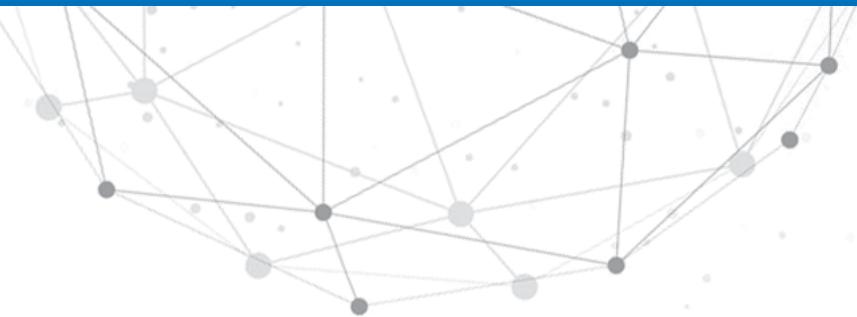
Poster Sessions

WiML + Black in AI
Joint Poster Session
Mon. 1:15pm to 2:45pm East Exhibition Hall B

Joint Affinity Groups Poster Session
Mon. 6:30pm to 8pm East Exhibition Hall B

This session will have posters from Black in AI, LatinX in AI, Queer in AI, WiML.

Both poster sessions are open to anyone with an affinity group workshop registration or NeurIPS registration to attend.



Mission:

To enhance the experience of women in machine learning, and thereby increase the number and impact of women in machine learning.

While presenters will identify primarily as female or nonbinary, all genders are welcome to attend. Register and find more information at
<http://wimlworkshop.org/2019>

Organizers:

Michela Paganini (Facebook AI Research)
Bahare Fatemi (U. of British Columbia)
Forough Poursabzi-Sangdeh (Microsoft Research)
Nezihe Merve Gürel (ETH Zurich)
Sarah Aerni (Salesforce)

Reception Organizers:

Meha Kaushik (Microsoft)
Srishti Yadav (Simon Fraser U.)

WiML Diversity and Inclusion Chairs:

Sinead Williamson (U. of Texas Austin)
Rachel Thomas (fast.ai and U. of San Francisco)

WiML would like to thank our platinum sponsors below. A complete list of sponsors can be found here: <https://wimlworkshop.org/2019>



DEC 9TH - Workshop Schedule

Location: East Exhibition Hall C

7:00 am	Registration
7:30 am	Breakfast
8:25 am	Opening Remarks – WiML organizers
8:35 am	WiML D&I Chairs Remarks
8:50 am	Invited talk: Dawn Song (UC Berkeley)
9:20 am	Contributed Talk 1
9:30 am	Contributed Talk 2
9:40 am	Contributed Talk 3
9:50 am	Coffee Break
10:25 am	WiML President Remarks
10:40 am	Invited talk: Xanda Schofield (Harvey Mudd College)
11:10 am	Contributed Talk 4
11:20 am	Contributed Talk 5
11:30 am	Lunch + Mentorship Roundtables
1:15 pm	WiML+ Black in AI Joint Poster Session
2:45 pm	Contributed Talk 6
2:55 pm	Contributed Talk 7
3:05 pm	Invited talk: Kathy Baxter (Salesforce)
3:35 pm	Coffee Break
4:00 pm	Contributed Talk 8
4:10 pm	Invited talk: Ashley Edwards (Uber AI)
4:40 pm	Closing Remarks
4:45 pm	Break
5:00 pm	NeurIPS program
6:30 pm	Joint Affinity Groups Poster Session



Black In AI

Black in AI is a place for sharing ideas, fostering collaborations and discussing initiatives to increase the presence of Black people in the field of Artificial Intelligence. www.blackinai.org.

Organizers:

Esube Bekele (In-Q-Tel)
Ezinne Nwankwo (Harvard U.)
Ignatius Ezeani (Lancaster U.)
Charles Onu (McGill U.)
Charles Earl (Automattic.com)
Flora Tasse (Streem Inc)
Daniel Nkemelu (Georgia Institute of Technology)
Victor Silva (U. of Alberta)
Bernease Herman (U. of Washington)

**Black in AI would like to thank
our top level sponsors:**

MacArthur Foundation

accenture

DeepMind

facebook

Google

Hopper-Dean Foundation

The ROCKEFELLER FOUNDATION

PARTNERSHIP ON AI

Apple

OpenAI

Microsoft

amazon

IBM

ORACLE®

Bloomberg®

NVIDIA.

Uber

DEC 9TH - Workshop Schedule

Location: East Meeting Level 1+2+3

7:00 am	Registration (NeurIPS registration not required)
8:00 am	Mentorship & Breakfast
9:00 am	Opening Remarks
9:10 am	Invited Talk: Elaine Nsoesie (Boston U.)
9:45 am	Contributed Talk 1
10:00 am	Contributed Talk 2
10:15 am	Contributed Talk 3
10:30 am	Coffee Break
11:00 am	Invited Talk: Sarah Menker (Gro Intelligence)
11:35 am	Contributed Talk 4
11:50 pm	Contributed Talk 5
12:05 pm	Contributed Talk 6
12:20 pm	Lunch + Joint Poster Session w/WiML
2:45 pm	Contributed Talk 7
3:00 pm	Contributed Talk 8
3:15 pm	Coffee Break
3:45 pm	Invited Talk: Matthew Kenney (Duke U.)
4:20 pm	Panel Discussion
5:00 pm	Awards & Closing Remarks
5:30 pm	Break
6:30 pm	Joint Affinity Groups Poster Session

DEC 13TH - Sheraton Vancouver Wall Centre

6:30 pm	Reception & Networking
7:30 pm	Welcome To Dinner
8:00 pm	Dinner & Networking
8:30 pm	BAI Presentations
9:00 pm	Fireside Chat
10:00 pm	Networking & The Annual BAI Music

A complete list of sponsors can be found here:
<https://blackinai.github.io/workshop/2019/sponsors/>



LatinX In AI

The LatinX in AI Coalition (LXAI) bridges communities, academics, industry, and politicians working to further AI innovation and resources for LatinX individuals globally. We host research workshops at AI academic conferences, drive and support research, development, and infrastructure programs to boost innovation and capabilities of Latin Americans working in Artificial Intelligence.

Organizers:

Pablo Fonseca (U. of Montreal)
Hiram Ponce (U. Panamericana Mexico)
David Ramirez (Princeton U.)
Felipe Leno da Silva (U. of Sao Paulo)
Pablo Hernandez-Leal (Borealis AI)
Juan Camilo Gamboa Higuera (McGill U.)
Matias Valdenegro-Toro (DFKI Bremen)
Miguel Alonso Jr (Florida Intl. U.)
Elvis Saravia (Elastic)
Maria Pantoja (CalPoly SLO)
Laura Montoya (Accel AI)

Workshop Advisors

Laura Montoya (Accel AI Inst.)
Omar U. Florez (Capital One)
Javier Turek (Intel Labs)
Jorge Luis Guevara Diaz (IBM Research)
Pablo Rivas (Marist College)
Javier Andres Orduz Ducuara (National Autono-mous U.)
Pablo Samuel Castro (Google Brain)

DEC 9TH - Workshop Schedule

Location: East Ballroom A

7:00 am	Registration and Breakfast*
8:45 am	Opening Remarks
9:00 am	Keynote: Carlos Guestrin
9:30 am	Contributed Talk 1
9:40 am	Contributed Talk 2
9:50 am	Contributed Talk 3
10:00 am	Contributed Talk 4
10:10 am	Coffee Break
10:55 am	Contributed Talk 5
11:05 am	Keynote: Barbara Poblete
11:35 am	Contributed Talk 6
11:45 am	Contributed Talk 7
11:55 am	Contributed Talk 8
12:05 pm	Lunch
12:15 pm	Lunch/Google Keynote: Monserrat Gonzales Arenias
12:45 pm	Lunch
2:05 pm	Contributed Talk 9
2:15 pm	Keynote: Alan Aspuru Guzik
2:55 pm	Contributed Talk 10
2:55 pm	Coffee Break
3:30 pm	Roundtable Discussion/Panel
4:30 pm	Research Mentoring Hour
5:30 pm	Break
6:30 pm	Joint Affinity Groups Poster Session

LatinX would like to thank our sponsors:





Queer In AI

Mission:

Queer In AI's mission to make the AI/ML community one that welcomes, supports, and values queer scientists. We accomplish this by building a visible community of queer and ally AI/ML scientists through meetups, poster sessions, mentoring, and other initiatives. We also recognize the growing impact that AI/ML has on people and the potential for negative effects and inequitable burdens on queer people. A central part of our mission is raising awareness of these issues in the general AI/ML community and encouraging and highlighting research of and solutions to these problems.

Organizers:

Raphael Gontijo Lopes (Google Brain)
William Agnew (U. of Washington)
Natalia Bilenko (NYB Labs)
Andrew McNamara (Microsoft Research)

Queer in AI Code of Conduct will be in effect in conjunction with the NeurIPS Code of Conduct. View the full code here: <https://sites.google.com/view/queer-in-ai/code-of-conduct>

Queer in AI would like to thank our sponsors:



PROWLER.io®

DEC 9TH - Workshop Schedule

Location: East Meeting Level 8 + 15

2:00 pm:	Introduction / Opening
2:10 pm:	Transformer-Based Unsupervised Machine Translation Study from Gender-less Languages <i>Meltem Atay</i>
2:30 pm:	The Values of Machine Learning <i>Ria Kalluri</i>
2:50 pm:	Panel on Algorithmic Inequity: Impacts on the Queer Community and Beyond
3:50 pm:	Break
4:20 pm:	Deconstructing Gender Prediction in NLP <i>Chandler May</i>
4:40 pm:	Lost at the Margins: A Quantitative Analysis of Implicit Assumptions in Modeling Identity <i>Phoenix Meadowlark</i>
6:30 pm	Joint Affinity Groups Poster Session

An updated schedule can be found on our website here: www.queerinai.org



{Dis}Ability in AI

{Dis}Ability in AI is a newly formed group that aims at supporting and advocating for disabled people.

NeurIPS is ensuring the conference is as welcoming and accessible as possible for all attendees. NeurIPS conference is the first ever conference in AI employing policies of fully accessible events namely:

- Real-time supertitles during oral presentations
- Interpreters
- Colourblindness friendly policy to all presentations and posters
- Volunteers to escort people with mobility problems if and when they need it
- Hot-line counsellors to bring about satisfactory resolutions to any issues brought before them

We strongly encourage any attendees that require assistance to contact us; we are committed to try and support all of our attendees.

Panelists:

Costis Daskalakis (MIT CSAIL And LIDS)
Katherine Heller (Google AI)
Emtiyaz Khan (RIKEN institute for AI)
Hugo Larochelle (Google AI)
Negar Rostamzadeh (Element AI)
Hanna Wallach (Microsoft Research)

Our Vision:

Equal participation for all

What do we mean by the term disabled people :

The term disabled people is used to include all those who experience barriers in accessing education due to having or being considered to have an impairment. This includes

- People with physical or sensory impairments
- People with specific learning difficulties (such as dyslexia, dyspraxia or AD(H)D)
- People with mental health conditions (such as anxiety and depression)
- People with autism spectrum conditions

DEC 12TH - 7 PM

Location: West Level 2, Rooms 220 - 222
7:00 - 9:00 pm

Jews in Machine Learning

This group was started at NIPS 2015 for the purpose of making ML conferences easier for frum (observant) Jews. It focuses on helping such attendants find kosher food, minyanim, Shabbat hosting, etc.

Monday Poster Sessions

- **A Blended Approach of Machine Learning Techniques in Predicting Vegetation Cover**
Bruno Ssekiwere (Uganda Technology and Management U.); Timothy Kivumbi (Uganda Technology and Management U.)
- **Transfer Learning for ECG-based Virtual Pathology Stethoscope Tracking**
Haben G Yhdego (Old Dominion U.)
- **An Ensemble Predictive Model Based Prototype for Student Drop-out in Secondary Schools**
Neema Mduma (NMIST); Khamisi Kalegele (Tanzania Commission for Science and Technology); Dina Machuve (NMIST)
- **Classifying Malware by their Behavior Using API System Calls**
Allan Ninyesiga (Uganda Technology and Management U.)
- **A Predictive Model for Classifying Post Treatment Mortality Rate of Breast Cancer Patients**
Sakinat O Folorunso (Olabisi Onabanjo U.)
- **From Stroke to Finite Automata: An Offline Recognition Approach**
Kehinde Aruleba (U. of the Witwatersrand)
- **Unsupervised Similarity Based Topic Segmentation System for Amharic**
Abey D Melles (US Embassy)
- **Prediction of Postures on a Smart Chair**
Tariku A Gelaw (Ethiopian Biotechnology Inst.)
- **Models for Predicting Global Solar Radiation Using Artificial Neural Network**
Stephen G Fashoto (U. of Swaziland)
- **Dictionary Based Amharic Sentiment Lexicon Construction**
Girma Neshir N Alemneh (Addis Ababa U.); Solomon Atnafu (Addis Ababa U.); Andreas Rauber (TU Wien)
- **Applying Machine Learning Algorithms for Kidney Disease Diagnosis**
Yenatfanta S Bayleyegn (Ethiopian Biotechnology Inst.); Meron Alemayehu (Ethiopian Biotechnology Inst.)
- **Banana Diseases Detection using Deep Learning**
Sophia Leonard Sanga (NMIST); Kennedy Jomanga (International Inst. of Tropical Agriculture); Dina Machuve (NMIST)
- **Corpora Development for Igbo Sentiment Lexicons**
Emeka Ogbuju (Federal U. Lokoja); Moses Onyesolu (Nnamdi Azikiwe U. Awka)
- **Sentiment Analysis Model for Opinionated Awngi Text: Case of Music Reviews**
Melese Mihret Wondim (U. of Gondar); Muluneh Atinaf (Addis Ababa U.)
- **Digital Restoration of Degraded Script Documents for Character Recognition via Machine Learning**
Amanuel Lemma Jagisso (Aksum U.)
- **Amharic Text Normalization with Sequence-to-Sequence Models**
Seifedin S Mohamed (Addis Ababa University)
- **Modelling Large-Scale Signal Fading in Urban Environment Based on Fuzzy Inference System**
Abigail O Jefia (Covenant U.)

- **Synthesis of Social Media Profiles Using a Probabilistic Context-Free Grammar**
Abejide Olu Ade-Ibijola (U. of Johannesburg)
- **Deep Learning-Based Approach for Identification of Tomato Plant Damages Caused by Tuta Absoluta**
Lilian E Mkonyi (NMIST)
- **A Web-based Data Visualization Tool for Student Dropouts in Tanzania: Case of Primary and Secondary Schools**
Angelika M Kayanda (NMIST)
- **Prosody Based Automatic Speech Segmentation for Amharic**
Rahel Mekonen Tamiru (Addis Ababa U.)
- **Sentence Level Amharic Text Sentiment Analysis Model: A Combined Approach**
Bitseat T Aragaw (iCog-Labs)
- **Energy-Aware Control of Mobile Networks: a Reinforcement Learning Approach**
Dagnachew Azene Temesgene (CTTC)
- **Hybrid vs Ensemble of Classification Model for Phishing Website Classification**
Fatimah O Salami (First Bank of Nigeria Limited); Sakinat O Folorunso (Olabisi Onabanjo U.)
- **Factored Convolutional Neural Network for Amharic Character Image Recognition**
Birhanu Hailu Belay (Bahir Dar Inst. of Technology)
- **Machine Learning to Predict Fuel Consumption**
Landrine Guimfac Teufac (Fultang Polyclinic); Rosine Carole Kemgang Dongmo (Centre de Sante Sainte Romaine); Jacques Tobie (U. of Douala); Silviane Samantha Sietchepin Yameni (U. of Buea)
- **Knowledge Transfer using Model-Based Deep Reinforcement Learning**
Tlou J Boloka (CSIR); Tiro Setati (CSIR)
- **Toward a mixed initiative handwriting tutor for preschoolers**
Jean Michel Amath Sarr (UCAD)
- **A Step Towards Exposing Bias in Trained Convolutional Neural Network Models**
Daniel A Omeiza (Carnegie Mellon U. Africa)
- **Nanoscale Microscopy Images Colourization Using Neural Networks**
Israel G Birhane (Mila)
- **Ideological Drifts in the U.S. Constitution: Detecting Areas of Contention with Models of Semantic Change**
Abdul Abdulrahim (U. of Oxford)
- **A Translation-Based Approach to Morphology Learning for Low Resource Languages**
Tewodros Abebe Gebreslassie (Addis Ababa U.); Amanuel N Mersha (Addis Ababa Inst. Technology)
- **Improving automated in-field cassava disease diagnosis with semantic segmentation**
Gloria Namanya (Makerere U.); Benjamin Akera (Makerere U.); Daniel Ssendiwala (Makerere U.); Chodrine Mutebi (, Makerere U.)
- **NMT vs. Factored SMT for bidirectional Amharic - English Machine Translation**
Tsegaye A. Mekonnen (Addis Ababa U.); Tensaye y Ayalew (Ethiopian Inst. of Technology-Mekelle University)

Monday Poster Sessions

- **Deep Learning Based Survival Time Prediction of Brain Tumor Patients Using Multi-Modal MRI Images**
Abdela A Mossa (Cukurova Universiy)
- **AI Class Monitor: Improving Quality of Learning through Facial Emotion Recognition and Classroom Behaviour Modelling**
Olubayo Adekanmbi (Data Science Nigeria); Toyin Adekanmbi (Data Science Nigeria)
- **Stock Price Prediction System using Long Short-Term Memory**
Omolayo G. Olasehinde (FUTA AI and Data Science)
- **Camera and LIDAR Fusion for Vehicle Detection in Low-Radiance Scenes**
Selameab S Demilew (U. of Ottawa)
- **NFE: A New Feature Engineering Approach to Improve Malware Classification**
Emmanuel Masabo (Makerere U.); Swaib Kyanda Kaawaase (Makerere U.); Julianne Sansa-Otim (Makerere U.); John Ngubiri (U. of Dar es Saalam, College of Information and Communication)
- **Deep Classification Network for Monocular Depth Estimation**
Oluwafemi Azeez (Carnegie Mellon U.); Yang Zou (Carnegie Mellon U.); B. V. K. Vijaya Kumar (CMU, USA)
- **Algorithmic Injustices: Towards a Relational Ethics**
Abeba Birhane (U. College Dublin); Fred Cummins (U. College Dublin)
- **NASS-AI: Towards Digitization of Parliamentary Bills using Document Level Embedding and Bidirectional Long Short-Term Memory**
Olamilekan F Wahab (Independent Researcher); Adewale A Akinfaderin (Duke Energy Corp.)
- **Extraction of syllabically rich and balanced sentences for Semitic Ethiopian language**
Hafte Miruts Abera (Addis Ababa U.); Sebsibe Hailemariam (Addis Ababa U.)
- **Address2vec: Generating vector embeddings for blockchain analytics**
Ali H Elzawahry (Makerere U./Ronin Inst.); Samiiha Nalwooga (Makerere U.)
- **Assessing West African English phonemes using machine algorithms**
Adeiza Lasisi Isiaka (Adekunle Ajasin U.)
- **Fully Convolutional Neural Network for Hair Segmentation in the Wild on Mobiles**
Gael Kamdem De Teyou (Huawei); Junior Ziazen (Concordia U.)
- **Sentiment Analysis on Naija-Tweets**
Taiwo Kolajo (Covenant U.); Olawande Daramola (CPUT); Ayodele Adebiyi (Covenant U.)
- **Interactive Segmentation for Disaster Relief Mapping**
Muhammed Razzak (Mila)
- **(Real-Time) Automatic Localization and Labeling of Field Plots From Drone Imagery**
Tewodros W Ayalew (U. of Saskatchewan)
- **Facial Micro-expression Recognition: A Machine Learning Approach**
Iyanu P. Adegun (Federal U. of Technology, Akure, Nigeria); Hima Bindu Vadapalli (U. of the Witwatersrand)
- **Self-Supervised Auxiliary Losses for Navigation-Based Deep Reinforcement Tasks**
Eltayeb K. E. Ahmed (African Inst. for Mathematical Sciences); Luisa Zintgraf (U. of Oxford); Christian A Schroeder (U. of Oxford); Nicolas Usunier (Facebook AI Research)
- **Part Of Speech (POS) tagging for Amharic: A Machine learning approach**
Gebeyehu K. Bayable (Addis Ababa U.)
- **Generic and Adaptive Ontology Learner**
Kidane W Degefa (Haramaya U.); Fekade Getahun (Addis Ababa U.)
- **Bi-directional Matching and Hierarchical Attention based Subjective Question Marking using Deep Learning**
Abebawu E Eshetu (Haramaya U.); Fekade Getahun (Addis Ababa U.)
- **A Computational Intelligent and Environment Friendly Approach for Energy Management Optimization in Morocco**
Lamyae Mellouk (International U. of Rabat)
- **Automatic Video Captioning Using Spatiotemporal Convolutions On Temporally Sampled Frames**
Simbarashe L Nyatsanga (Stellenbosch U.)
- **Deep Learning for Radio Frequency Fingerprinting: A Massive Experimental Study**
Emmanuel Ojuba (Northeastern U.)
- **Emotion Recognition System for Amharic Language**
Hana Sinishaw Tisasu (iCog-Labs)
- **Web App for Cassava Leaves' Diseases Detection**
Sara Ebrahim (AIMS Rwanda); Awa SAMAKE (AIMS-Rwanda / Mila); Yasser Salah Eddine Bouchareb (AIMS Rwanda); Aisha Alaagib Alryeh (AMMI)
- **Population-Based Training of Neural Networks at Scale**
Sam Ade Jacobs (LLNL); Tim Moon (LLNL); Brian Van Essen (LLNL); David Hysom (LLNL); Jae-Seung Yeom (LLNL)
- **Robust representations for transfer learning on heterogeneous spatial graphs**
Chidubem Iddianozie (U. College Dublin)
- **Resumes Skills Classification using Text-Mining Tools**
RENE CLARISSE DJAMKOU KAMENI (University of Yaoundé 1)
- **Intelligent Chest X-Rays Images Analysis System (Case Study Pneumonia)**
Ibrahimu S Mtandu (U. of Dodoma); Maombi A Amos (U. of Dodoma)
- **Investigation of Infants Nutritional status using Machine Learning**
Tigist G Belay (U. of Gondar)
- **Amadioha: An Open Domain Question Answering Tool for Encouraging Citizen Participation in Developing Countries.**
VICTOR Dibia (Cloudera Fast Forward Labs); Edidiong-Abasi Anwanane (West African Inst. for Financial and Economic Management)

Monday Poster Sessions

- **Exploiting Spatial Coherence to Improve Prediction in Aerial Scene Image Analysis: Application to Disease Incidence Estimation**
Rahman Sanya (Makerere U.)
- **Moving Towards Strong Generalization using Meta-Learning**
Simphiwe N Zitha (U. of the Witwatersrand, Nedbank CIB); Benjamin Rosman (U. of the Witwatersrand); Arun Aniyan (Rhodes U. & SKA-SA); Sydil R Kupa (Rhodes U.)
- **Stacked Ensemble Model for Diagnosis of Head and Neck Cancer (HNC) in Primary Healthcare of Developing Countries**
Folake Akinbohun (Rufus Giwa Polytechnic); Olatubosun Olabode (Federal U. of Technology); Adetunmbi A.O (Federal U. of Technology); Ambrose Akinbohun (U. of Medical Sciences)
- **Agent Based Service Restoration in Secondary Distribution Network**
Rukia Julius Mwifunyi (U. of Dar es Salaam)
- **Learning to estimate label uncertainty for automatic radiology report parsing**
Tobi Olatunji (Enlitic); Li Yao (Enlitic); Ashwin Jadhav (Enlitic); Kevin Lyman (Enlitic)
- **Bayesian state estimation and calibration for a robot manipulator end-effector.**
Zimkhitha Sijovu (CSIR)
- **End-to-End Aerial Poverty Estimation**
Vongani Maluleke (U. of Cape Town)
- **Implementing Machine Learning Algorithms to achieve the UNAIDS 90-90-90 Strategy in South Eastern Districts of Malawi**
Victor L Banda (Imperial College London, Neonatal Data Analysis Unit)
- **Multi-modal Transfer Learning for Continuous Control**
Sicelukwanda N.T. Zwane (U. of the Witwatersrand); Benjamin Rosman (U. of the Witwatersrand)
- **User Identity Linking Across Social Networks by Jointly Modeling Heterogeneous Data with Deep Learning**
Asmelash Teka Hadgu (Lesan Al); Jayanth Gundam (Leibniz U. Hannover)
- **ScaffoldNet: Classifying Biomedical Polymer-Based Scaffolds via a Convolutional Neural Network**
Darlington Akogo (minoHealth)
- **A Deep Distributed Anomaly Detection in Edge Devices**
Okwudili M Ezeme (UoIT)
- **Deep Learning Mobile Application Towards Malaria Diagnosis**
Frederick R Apina (U. of Dodoma); Halidi S Maneno (U. of Dodoma)
- **An automated 1-D Convolutional Neural Network ECG Beat Classification**
Mohammed Khalil (FSTM)
- **Smart handover in Millimeter Wave communication for Ultra-Dense Network: Machine Learning Approach**
Michael S Mollel (NMIST and Technology and U. of Glasgow)

- **Automated Detection of Tuberculosis Using Transfer Learning Techniques**
Lilian Muyama (Makerere U.)
- **Morphological generation for Wolaytta using Convolution based Encoder-Decoder model**
Amanuel N Mersha (Addis Ababa Inst. Technology); Tewodros Abebe Gebreselassie (Addis Ababa U.)
- **Collaborative PAC Learning with Classification Noise**
Shelby Heinecke (U. of Illinois, Chicago)
- **Quantifying the effect of low-quality crawled data on the quality of word representation of Yorùnbá language**
Jesujoba O Alabi (Saarland U.); David didelani@sv.uni-saarland.de (Saarland U.)
- **CALM : Clustering Augmented Learning Method with application to smart parking**
Soumya Suvra Ghosal (NIT Durgapur)
- **Improving the Performance of Genetic Algorithm Solutions for Order Allocation in an E-Market with the Pareto Optimal Set**
Mechelle Gittens (U. of the West Indies Cave Hill Campus); Jacob Hunte (Western U.); Curtis L Gittens (U. of the West Indies Cave Hill Campus)
- **Semantic Segmentation for Automated Necrosis Scoring in Cassava Root Cross-sections with Deep Learning**
Benjamin Akera (Makerere U.); Joyce Nakatumba (Makerere U.); Jeremy Tusubira (Makerere U.)
- **Bidirectional LSTM with attention mechanism and convolutional layer for Text classification**
Modupe Opeyemi Ishaq (U. of Ado-Ekiti)
- **Non-Monotonic Sequential Text Generation**
Kianté Brantley (The U. of Maryland College Park); Hal Daumé III (U. of Maryland / Microsoft Research); Kyunghyun Cho (New York U.); Sean Welleck (New York U.)
- **Fusion of Meta Data and Musculoskeletal Radiographs for Multi-modal Diagnostic Recognition**
Obioma Pelka (U. of Applied Sciences and Arts Dortmund)
- **H-SCAN - Automated Horizon Scanning**
Zelalem Fantahun Abate (iCog-Labs Software Consultancy); Biruk Aserat Habte (iCog-Labs Software Consultancy); Masresha B Hirabo (iCog Labs)
- **A Deep Learning Approach to Detect Bacterial Wilt on Enset Crop (False Banana)**
Yidnekachew kibru Afework (AASTU)
- **Applying AI and Web Services in Mining Sexual Violence Tweets in South Africa**
Jude I Oyasor (U. of the Witwatersrand); Pravesh Ranchod (U. of the Witwatersrand); Mpho Raborife (U. of Johannesburg)
- **Hypertension Prediction System Using Naive Bayes Classifier**
Idowu T Aruleba (Joseph Ayo Babalola U., Osun-state)
- **Challenges of identifying and utilizing Big Data Analytics in a resource-constrained environment: in the case of Ethiopia**
Tigabu Dagne Akal (Addis Ababa U.)
- **Effects of Decision Models on Dynamic Multi-objective Optimization Algorithms for Financial Markets**
Frederick D Atiah (U. of Pretoria)

Monday Poster Sessions

- **Knowledge Discovery in Medical Database using Machine Learning Techniques.**
Ahmed Olanrewaju (U. of Ibadan, Ibadan, Oyo State); Adebola Ojo (U. of Ibadan)
- **A Bidirectional Tigrigna-English Statistical Machine Translation**
Mulubrhan H Gebrecherkose (Mekelle U., Ethiopian Inst. of Technology-Mekelle)
- **Real-time Vision-based Driver Alertness Monitoring using Deep Neural Network Architectures**
Olugbenga J Olamijuwon (Eblocks)
- **A ChatBot Framework for Robots and other Intelligent Agents**
Simon Mekit (iCog Labs)
- **ESO: Jewellery Machine Learning Classification Model**
Oluwatobi O. Banjo (Olabisi Onabanjo U.); Sakinat O Folorunso (Olabisi Onabanjo U.)
- **Classification of Phishing in Email URLs: A Deep Learning Approach**
Patience T Mhlophe (MTN SA); George GR Obaido (U. of the Witwatersrand, Johannesburg)
- **Moving Object Recognition System with Shadow Removal Using Adaptive Gaussian Mixture Model**
ADEKUNLE A.O. (Adayemi College of Education Ondo); adebayo aroyehun (Adyemni College of Education Ondo); AYO F. E (McPHERSON U.)
- **Classical Machine Learning Algorithms and Shallower Convolutional Neural Networks towards Computationally Efficient and Accurate Classification of Malaria Parasites**
Yaacob Girmay (Mekelle U.); Abel Kahsay (Mekelle U.); Maarig Aregawi (Mekelle U.); Achim Ibenthal (HAWK U. of Applied Sciences and Arts); Eneyew Adugna (Addis Ababa U.)
- **Automated Smartphone Based System for Diagnosis of Diabetic Retinopathy**
Misgina Tsighe Hagos (Ethiopian Biotechnology Inst.)
- **Investigating Coordination of Hospital Departments in Delivering Healthcare for Acute Coronary Syndrome Patients using Data-Driven Network Analysis**
Tesfamariam M Abuhay (U. of Gondar); Bilen Eshete (Haramaya U.); Yemisrach G Nigatie (U. of Gondar); Belay Alamneh (U. of Gondar)
- **Application of AI to the diagnosis of schizophrenia from Electroencephalogram (EEG)**
Pelagie Flore TEMGOUA NANFACK (MINRESI/CNDT)
- **An Overview of Cardiovascular Disease Infection Using Ensemble Voting Classifier**
Olawale Victor Abimbola (AI plus member (Data Science Nigeria)); Olawale Adeboye (Federal Polytechnic Ilaro Ogun State)
- **Adaptable Deep Adversarial Learning**
Chidubem G Arachie (Virginia Tech)
- **Modelling Polarity and Similarity Measures as Features for Text Classification**
Andrew Lukyamuzi (Mbarara U. of Science and Technology); Washington Okori (Uganda Technology and Management U.); John Ngubiri (Makerere U.)
- **Classification of pose view using a unified Embedding with Hard Triplet Loss and Gradient Boosted models**
Ala Eddine AYADI (RelationalAI)
- **A Framework for Digital Multimedia Signals Steganalysis for Security Threats Detection**
Toluwase A Olowookere (Ekiti State U., Ado Ekiti); Tobi Ayofe (Federal Polytechnic, Ede); Oghenerukevwe Oyinloye (Ekiti State U., Ado-Ekiti), Federal U. of Technology Akure, EKiti State U. Ado-Ekiti)
- **Stagnant zone segmentation with U-net**
Selam Waktola (Inst. of Applied Computer Science, Lodz U. of Technology)
- **Statistical Afaan Oromo Grammar Checker**
Abebe Mideksa Desalegn (Addis Ababa U.)
- **Neural Network Based Recognizing Textual Entailment using Bidirectional Attentive Matching (BiAM)**
Getenesh Teshome Guta (Haramaya U.); Yaregal Assabie (Addis Ababa U.)
- **Sequence to Sequence Models For Amharic Speech Recognition**
Eman Asfaw (iCog-Labs); Mahder Haileslasse (iCog-Labs); Helina Girmay (Med Innovation); Iman Abdulselam (self-employed)
- **Soil Mineral Deficiency Testing(SoMiT Lab)**
Nsubuga D Denise (Uganda Technology and Management U.); JEAN Mrs. AMUKWATSE (UTAMU)
- **Machine Learning for Handover Prediction in Fog Computing**
Salahadin Seid Musa (Addis Ababa U.)
- **Application of Artificial Neural Networks and Mobile Computing Technology for Maternity care in Resource-constrained environments**
Genet Shanko Dekebo (Adam Science and Technology U.); Tibebe Beshah (Addis Ababa U.)
- **A Generalized Approach to Amharic Text-To-Speech (TTS) Synthesis System**
Alula Tafere (Addis Ababa U.)
- **Enhanced Hybrid Approach for Amharic Sentiment Analysis**
Meron T Aragaw (EBTI)
- **Deep Learning in Healthcare for Malaria Detection**
Abiodun Modupe (U. of the Witwatersrand)
- **Sentimental Analysis of media data for evaluation of E-campaign strategies**
Hewitt Tuslime (Makerere U.); Jeremy Tusubira (Makerere U.); Henry Mutegeki (Makerere U.)
- **Applying Pattern Recognition to Earthquake Response Data to Infer the Residual Performance Capacity of Damaged Tall Buildings**
Henry V Burton (U. of California, Los Angeles)
- **Decision Support System for Farmers against Tuta Absoluta Effects on Tomato Plants**
Loyani K Loyani (NMIST)
- **Deep Image Composting**
Shivangi Aneja (Technical U. Of Munich); Soham Mazumder (Technical U. Of Munich)
- **Hypersearch: A Parallel Training Approach For Improving Neural Networks Performance**
Geraud Nangue Tasse (U. of the Witwatersrand)

Monday Poster Sessions

- **Automatic Speaker Recognition: A Comparative Analysis for South African Languages**
Tumisho B Mokgonyane (U. of Limpopo); Tshephisho Sefara (CSIR); Thipe Modipa (U. of Limpopo); Jonas Manamela (U. of Limpopo)
- **Detecting Depression on Social Media for Arabic Speakers**
Tuga Abdelkarim Ahmed (Nile Center for Technology Research)
- **Opinion Mining From Amharic Entertainment Texts**
Abreham Getachew (Addis Ababa U.)
- **Learning from Demonstration: An Investigation into the use of Predictive Sequence Learning (PSL) for Robot Manipulation**
Victor A Akinwande (CMU - Africa)
- **Expert System for Eye Disease Diagnosis**
Abraham E. Musa (Multiskills Nigeria Limited)
- **Blended Churn Predictive System for Quadruple-Patterned Churn Classification in Effective Customer Behavioural Management**
Ayodeji O.J Ibitoye (Bowen U.)
- **Generative adversarial networks for sound generation**
FOUTSE YUEHGOH (Paris Saclay); Foutse Yuehgoh (African Inst. for Mathematical Sciences)
- **Syntax analysis for the Amharic language**
Tsedeniya T Kinfe (Addis Ababa University)
- **Reinforcement Learning based Energy Efficiency Optimisation for 5G Mobile Cellular Networks**
Attai I Abubakar (U. of Glasgow)
- **Identification of Risk Factors and RegionalDifferentials in Under-Five Mortality in Ethiopia UsingMultilevel Count Model**
Tibebu Getiye Assefa (Ethiopian Civil Service U.)
- **Exploring the Role of Trade Network and Product Space in Accelerating Growth Using Network Based Visualization**
Fisseha Gidey Gebremedhin (U. of Yaounde I)
- **Applying Deep Learning to Technical Analysis Based Trading In African Financial Markets**
James A Assiene (AIMS-AMMI Rwanda)
- **Fake image detection using the error level analysis**
Tinbit Esayas (IRC)
- **Constructive recommendation for Combinatorial choice seats**
Bereket Abera Yilma (Luxembourg Inst. of Science and Technology (LIST))
- **Enhancing Spatial LTN Descriptions with Qualitative and Quantitative Temporal Resources**
Milena Tenorio (Inst. of Computing - Federal U. of Amazonas); Edjard Souza (Inst. of Computing - Federal U. of Amazonas)
- **Data Driven Tissue Models for Surgical Image Guidance**
Michael Barrow (UCSD); Qizhi He (Pacific Northwest National Laboratory); Ryan Kastner (UC San Diego)
- **Biological Sequence Analysis using Profile Hidden Markov Models**
Mírian Da Silva (Federal U. of Minas Gerais)
- **Mobile Artificial Intelligence Technology for Detecting Macula Edema and Subretinal Fluid on OCT Scans: Initial Results from the DATUM alpha Study**
Stephen Odaibo (RETINA-AI Health, Inc); Mikelson Mompremier (MomPremier Eye Inst.); Richard Hwang (South West Retina Consultants); Salman Yousuf (Saratoga Ophthalmology); Steven Williams (Mid-South Retina Associates); Joshua Grant (Bloomfield Eye Associates)
- **Agent-based simulation of an e-commerce with adaptive strategy using reinforcement learning for product selection**
Rodrigo Alves Martins (Pontifical Catholic U. of Minas Gerais); Sandro Jerônimo de Almeida (Pontifical Catholic U. of Minas Gerais)
- **Using AI Explainability to Discuss Racial Discrimination in a Credit Scoring System**
Ramon Vilarino (LatAm Experian DataLab and U. of São Paulo); Santiago Rodrigues (Ryerson U.)
- **Efficiently Learning to Perform Household Tasks with Object-Oriented Exploration**
Wilka Carvalho (U. of Michigan--Ann Arbor); Kimin Lee (Korea Advanced Inst. of Science and Technology); Richard Lewis (U. of Michigan--Ann Arbor); Satinder Singh (U. of Michigan--Ann Arbor/Deepmind); Honglak Lee (U. of Michigan--Ann Arbor/Google Brain)
- **Computer Vision Techniques for Automatic Analysis of Textured Hair**
Kymberlee Hill (Howard U.); Gloria Washington (Howard U.); Chinasa Okolo (Cornell U.)
- **Classification of Malignant Vesicle Phenotype from Biophysical Features from Extracellular Vesicles Obtained from Patients with Acute Myelogenous Leukemia.**
Chibuike Nwizu (Brown U.); Theo Borgovan (Rhode Island Hospital); Peter Quesenberry (Rhode Island Hospital); Lorin Crawford (Brown U.)
- **Estimating Competitive Equilibria for Convex Valuations**
Kweku Kwegyir-Aggrey (Brown U.); Enrique Areyan Viqueira (Brown U.); Amy Greenwald (Brown U.)
- **Co-opNet: Cooperative Generator-Discriminator Networks for Abstractive Summarization with Narrative Flow**
Saadia Gabriel (U. of Washington); Antoine Bosselut (U. of Washington); Ari Holtzman (U. of Washington); Jan Buys (U. of Washington); Kyle Lo (Allen Inst. for Artificial Intelligence); Asli Celikyilmaz (Microsoft); Yejin Choi (U. of Washington)
- **Lip Reading with Hahn Convolutional Neural Networks moments**
Hicham Hammouchi (International U. of Rabat)
- **AI-based application for delivering cervical cancer e-consultations**
Shamim Nabuuma (Community Dental and Reproductive Health)
- **Inferring Crop Pests and Diseases from Imagery Soil Data and Soil Properties**
Bruno Ssekiviere (Uganda Technology and Management U.); Claire Babirye (Uganda Technology and Management U.)
- **Improving Hate Speech Classification on Twitter**
Susana Benavidez (Stanford U.); Andy Lapastora (Stanford U.)
- **Energy Optimization of Wireless Sensor Network Using Neuro-Fuzzy Algorithms**
Mohammed Ali Mr. Adem (Bahirdar U.)

Monday Poster Sessions

- **Music video classification using audio and visual features**
Mikiyas Gulema Tefera (*Bahir Dar University*)
- **Road Damage Acquisition System based on RetinaNet for Physical Asset Management**
Gilberto Ochoa-Ruiz (*Tec de Monterrey*); Andres Alonso Angulo-Murillo (*U. Autonoma de Guadalajara*)
- **Emotion recognition using Texture Maps and Convolutional Neural Networks**
Lourdes Ramírez Cerna (*National U. of Trujillo*); Edwin J Escobedo Cardenas (*Federal U. of Ouro Preto*)
- **DiPol-GAN: Generating Molecular Graphs Adversarially with Relational Differentiable Pooling**
Pablo Rivas (*Marist College*); Michael Guarino (*Marist College*); Alexander Shah (*Marist College*)
- **An ontology and frequency-based approach, with machine learning, to recommend activities in scientific workflows**
Adilson L Khouri (*USP*)
- **Neural Network Autoencoders for Compressed Neuroevolution**
Santiago Miret (*Intel AI Lab*); Somdeb Majumdar (*Intel AI Lab*)
- **Weak supervision for electronic phenotyping using electronic health records**
Juan M Banda (*Georgia State U.*); Nigam Shah (*Stanford*)
- **Object Segmentation by Oriented Image Foresting Transform with Connectivity Constraints**
Lucy Alsina Choque Mansilla (*U. of São Paulo*)
- **Advanced Transfer Learning Approach for Improving Sentiment Analysis on Different Dialects of Spanish**
Daniel Alfredo Palomino Paucar (*National U. of Engineering*); Daniel Palomino (*U. Católica San Pablo*); José Eduardo Ochoa Luna (*San Pablo Catholic U.*)
- **Deep learning models for diabetic retinopathy screening program**
Abraham Sanchez (*Gobierno de Jalisco*); Eduardo Ulises Moya (*Gobierno de Jalisco*); Raul Nanclares (*Gobierno de Jalisco*); Alexander Quevedo (*Gobierno de Jalisco*); Jorge Martinez (*Gobierno de Jalisco*); Gaspar Gonzalez (*Cinvestav Guadalajara*)
- **Learning Bandpass and Common Spatial Pattern Filters for Motor Imagery Classification**
Paul Augusto Bustios Belizario (*U. of Sao Paulo*); João Luís Garcia Rosa (*U. of São Paulo, Brazil*)
- **Transfer Learning applied to Reinforcement Learning problem with continuous state space using Human-like recall/association**
Luis A Avendaño Muñoz (*U. de los Andes*); Fernando E. Lozano (*U. de los Andes, Colombia*); Edwin Duban Torres (*U. de los Andes*)
- **Fast Calorimeter Simulation with Wasserstein Generative Adversarial Networks**
Vitoria Barin Pacela (*U. of Helsinki*); Maurizio Pierini (*Cern*)
- **Finding Evidence Of The Sexual Predators Behavior**
Ángeles López-Flores (*U. Autónoma Metropolitana*); Esaú Villatoro-Tello (*U. Autonoma Metropolitana*); Gabriela Ramirez-de-la-Rosa (*U. Autónoma Metropolitana*)

- **Learning Reward Machines for Partially Observable Reinforcement Learning (Abridged Report)**
Rodrigo A Toro Icarte (*U. of Toronto and Vector Inst.*); Ethan Waldie (*U. of Toronto*); Toryn Klassen (*U. of Toronto*); Richard Valenzano (*Element AI*); Margarita Castro (*U. of Toronto*); Sheila A. McIlraith (*U. of Toronto*)
- **Augmented Curiosity: Depth and Optical Flow Prediction for Efficient Exploration**
Juan A Carvajal (*Purdue U.*); thomas molnar (*purdue*); Lukasz Burzawa (*Purdue*); Eugenio Culurciello (*Nil*)
- **Revisiting Syllable-aware Language Modelling**
Arturo Oncevay (*U. of Edinburgh*); Kervy Rivas Rojas (*PUCP*)
- **Speeding up Reinforcement Learning for Inference and Control of Gene Regulatory Networks**
Rodrigo C Bonini (*U.e Federal do ABC*); Felipe Leno da Silva (*U. of São Paulo*); David C Martins-Jr (*UFABC*)
- **Anatomical Priors for Image Segmentation via Post-Processing with Denoising Autoencoders**
Agostina Larrazabal (*CONICET / U. Nacional del Litoral*)
- **A study of observation scales based on the FH dissimilarity measure**
Edward Jorge Yuri Cayllahua Cahuina (*San Pablo Catholic U.*)
- **Exploiting the potential of deep reinforcement learning for classification tasks in high-dimensional and unstructured data**
Johan Samir Obando Ceron (*U. Autonoma de Occidente*)
- **Solving the generalized non-linear Schrödinger equations with genetic algorithms**
Jesús Castillo Cabello (*Tec de Monterrey*)
- **Segmentation of skin lesions and their attributes using Generative Adversarial Networks**
Cristian Lazo Quispe (*U. Nacional de Ingenieria*)
- **Divide and Conquer: an Accurate Machine Learning Algorithm to Process Split Videos on a Parallel Processing Infrastructure**
Walter M Mayor (*U. Autonoma de Occidente*); Walter Mayor (*U. autonoma de occidente*)
- **On The Selection of Predictive Models in Production**
Rocio M Zorrilla (*Laboratorio Nacional de Computacao Cientifica*)
- **Incorporating Climate Change in Spatiotemporal Species Distribution Models for cattle tick *Rhipicephalus (Boophilus) microplus***
Luz Astrid Pulido (*Centro Agronomico Tropical de Investigacion y Ensenanza- CATIE*); W. E. Grant (*Texas A&M U., College Station*); Agustin Rudas (*Inst.o de Ciencias Naturales, U. Nacional de Colombia*); J. A. Betancourt (*Corporacion Colombiana de Investigacion Agropecuaria*); Diana M Diaz Herrera (*Wayne State U.*)
- **Understanding Algorithmic Fairness in Health Care: A Proposed Case Study with Three Datasets**
Bruna Silva (*U.e Federal de Minas Gerais*); Flavio Figueiredo (*UFMG*)
- **Building Bridges: Implementing Redundancy Analysis by means of a Neural Network**
Fernando J Yanez (*U. Metropolitana*); Juan Trabucco (*U. Metropolitana*); Alejandro Medina (*U. Metropolitana*)
- **Overview of UP-Fall Detection Project**
Lourdes Martinez-Villaseñor (*U. Panamericana*); Hiram Ponce (*U. Panamericana*); José Pablo Nuñez-Martínez (*U. Panamericana*); Ernesto Moya (*U. Panamericana*); Jorge E Brieva (*U. Panamericana, Mexico*)

Monday Poster Sessions

- **Paraphrase Generation via Adversarial Penalizations**
Gerson Waldyr Vizcarra Aguilar (*San Pablo Catholic U.*)
- **Representation Learning in Game Provenance Graphs**
Sidney Araujo Melo (*Inst. of Computing / U.e Federal Fluminense*);
Aline Paes (*Inst. of Computing / U.e Federal Fluminense*)
- **Object Recognition using a Region Detector Based on Hierarchies of Partitions**
Karla C Otiniano-Rodríguez (*Esiee Paris (Paris-Est)*)
- **Multi-Task Deep Learning Model for Improved Histopathology Prediction from In-Vivo Microscopy Images**
David Brenes (*Rice U.*); CJ Barberan (*Rice U.*); Brady Hunt (*Rice University*); Richard Baraniuk (*Rice U.*); Rebecca Richards-Kortum (*Rice U.*)
- **Gaussian Processes for simulating complex quantum systems**
Rodrigo A. Vargas-Hernandez (*Chemical Physics Theory Group, U. of Toronto, Toronto, Ontario, M5S 3H6, Canada*); Roman Krems (*U. of British Columbia*)
- **Anomaly event detection based on people trajectories for surveillance videos**
Renesso V. H. Mora Colque (*UFMG*); Victor Hugo C. de Melo (*Federal U. of Minas Gerais*); Guillermo Camara-Chavez (*UFOP*); William R Schwartz (*Federal U. of Minas Gerais*)
- **Pain Intensity Estimation using Spatiotemporal Facial Features**
Manasses A. Mauricio (*U. Católica San Pablo*); Guillermo Cámera (*U.e Federal de Ouro Preto*)
- **Investigating Transfer Learning Approaches for Mining Opinions in the Electoral Domain**
Jessica Soares dos Santos (*U.e Federal Fluminense*); Aline Paes (*Inst. of Computing / U.e Federal Fluminense*); Flávia Bernardini (*UFF*)
- **Semantic Segmentation on Image Using Multi-task Hourglass Networks**
Darwin D Saire Pilco (*U. of Campinas*); Adín Ramírez Rivera (*U. of Campinas*)
- **Biometric system based on electroencephalogram analysis**
Dustin Javier Carrion (*Yachay Tech U.*); Hector Mejia (*Yachay Tech*); Rigoberto Fonseca (*Yachay Tech*)
- **Crime prediction using self-exciting point processes and image features as covariates**
Mateo Dulce (*Quantil*)
- **Mapping the loss of information of Bosonic (Physical) systems into neural networks with applications in Machine learning**
Ivan D Arraut Guerrero (*The Open U. of Hong Kong*)
- **Learning to Play Soccer by Reinforcement and Applying Sim-to-Real to Compete in the Real World**
Hansenclever F Bassani (*U.e Federal de Pernambuco*); Renie Delgado (*U.e Federal de Pernambuco*); José Lima Júnior (*U.e Federal de Pernambuco*); Heitor Rapela Medeiros (*UFPE*); Pedro H. M. Braga (*U.e Federal de Pernambuco*); Alain Tapp (*Université de Montréal*)

- **Role of gut microbiota and their temporal interactions in kidney transplant recipients**
Daniel Ruiz-Perez (*Florida International U.*); Musfiqur Sazal (*FIU*); Ji In Park (*Kangwon National U. School of Medicine*); Trevor F Cickovski (*FIU*); Hajeong Lee (*Seoul National U. Hospital*); Hyunjeong Cho (*Chungbuk National U. Hospital*); Duck Jin Hwang (*HanGil Eye Hospital*); Giri Narasimhan (*Bioinformatics Research Group, Florida International U.*)
- **Expressiveness of Neural Processes**
Alfredo A De la Fuente (*Schlumberger Software Technology Innovation Center*)
- **Which Kernels to Transfer in Deep Q-Networks?**
Jesús García-Ramírez (*INAOE*); Eduardo F Morales (*Inst. o Nacional de Astrofísica, Óptica y Electrónica (INAOE)*); Hugo Jair Escalante (*INAOE*)
- **Large Scale Learning Techniques For Least Squares Support Vector Machines**
Santiago Toledo-Cortés (*U. Nacional de Colombia*); Ivan Y. Castellanos-Martínez (*U. Nacional de Colombia*); Fabio A. Gonzalez (*U. Nacional de Colombia, Colombia*)
- **EXP4-DFDC: A Non-Stochastic Multi-Armed Bandit for Cache Replacement**
Camilo Valdes (*FIU*); Farzana Beente Yusuf (*Florida International U.*); Vitalii Steblainkin (*FIU*); Giri Narasimhan (*Bioinformatics Research Group, Florida International U.*); Giuseppe Vietri (*U. of Minnesota*)
- **Model car architecture for education in Robotics and Deep Neural Networks**
Ricardo Carrillo Mendoza (*FU Berlin*)
- **Towards Learning Better Representations for Completion of Real-World Knowledge Bases**
Vítor Lourenço (*U.e Federal Fluminense*); Aline Paes (*Inst. of Computing / U.e Federal Fluminense*); Marcio Moreno (*IBM Research*)
- **Backpropagating the Unsupervised Error of Self-Organizing Maps to Deep Neural Networks**
Pedro H. M. Braga (*U.e Federal de Pernambuco*); Heitor Rapela Medeiros (*UFPE*); Hansenclever F Bassani (*U.e Federal de Pernambuco*)
- **Portable system for the prediction of anemia based on the ocular conjunctiva using Artificial Intelligence**
Dennis H Núñez Fernández (*U. Peruana Cayetano Heredia*)
- **Optimizing the regularization parameters selection in sparse modeling**
Victoria Peterson (*Inst. o de Matemática Aplicada del Litoral*); Ruben Spies (*Inst. o de Matemática Aplicada del Litoral, IMAL-UNL-CONICET, Santa Fe, Argentina*)
- **An end-to-end approach for the verification problem through learned metric-like spaces**
Joao B Monteiro (*Inst. National de la Recherche Scientifique*); Isabela Albuquerque (*Inst. National de la Recherche Scientifique*); Jahangir Alam (Ph.D. (Postdoctoral Researcher, Speech Recognition), Centre de recherche informatique de Montréal Montréal, Canada); Tiago H Falk (*INRS-EMT*)
- **Adversarial target-invariant representation learning**
Isabela Albuquerque (*Inst. National de la Recherche Scientifique*); Joao B Monteiro (*Inst. National de la Recherche Scientifique*); Ioannis Mitliagkas (*Mila & U. of Montreal*); Tiago H Falk (*INRS-EMT*)
- **Signed Causal Bayesian Networks for Microbiomes**
Musfiqur Sazal (*FIU*); Daniel Ruiz-Perez (*Florida International U.*); Camilo Valdes (*FIU*); Trevor F Cickovski (*FIU*); Vitalii Steblainkin (*FIU*); Arpit F Mehta (*FIU*); Kalai Mathee (*FIU*); Giri Narasimhan (*Bioinformatics Research Group, Florida International U.*)

Monday Poster Sessions

- **On the Impact of Gender Bias in Medical Imaging Classifiers for Computer-aided Diagnosis**
Nicolás Nieto (*Research Inst. for signals, systems and computational intelligence*); Agostina Larrazabal (*CONICET / U. Nacional del Litoral*); Victoria Peterson (*Inst.o de Matemática Aplicada del Litoral*); Diego Milone (*CONICET / U. Nacional del Litoral*); Enzo Ferrante (*CONICET / U. Nacional del Litoral*)
- **Meta-learning for skin cancer detection using Deep Learning techniques**
Sara I Garcia (*U. Coventry*)
- **An Evaluation Benchmark for Online Discussion Representation Models**
Túlio Corrêa Loures (*U.e Federal de Minas Gerais*)
- **User-Centered Feature Space Transformation**
Marleny Hilasaca (*U. of Sao Paulo*)
- **Meta-Webly Supervised Learning for object recognition**
Ricardo Benitez-Jimenez (*Inst.o Nacional de Astrofísica, Óptica y Electrónica (INAOE)*); Eduardo F Morales (*Inst.o Nacional de Astrofísica, Óptica y Electrónica (INAOE)*); Hugo Jair Escalante (*INAOE*)
- **Relation Augmentation: A Gradient Boosting Approach for Detecting Genomic Anomalies**
Mario Banuelos (*Fresno State*); Omar DeGuchy (*U. of California, Merced*)
- **Robust Estimation in Reproducing Kernel Hilbert**
Joseph A Gallego (*National U. Of Colombia*); Fabio A. Gonzalez (*U. Nacional de Colombia, Colombia*)
- **Deep Predictive Coding for Multimodal Spatiotemporal Representation Learning**
Marcio Fonseca (*Câmara dos Deputados*)
- **Algorithmic Targeting of Social Policies: Accuracy & Fairness**
Luis Fernando Cantu (*ITAM*); Alejandro Noriega Campero (*MIT*); Bernardo Garcia-Bulle Bueno (*MIT*); Michiel A Bakker (*MIT*); Luis Tejerina (*IADB*); Alex 'Sandy' Pentland (*MIT*)
- **Efficient allocation of law enforcement resources using predictive police patrolling**
Paula Rodriguez (*Quantil*)
- **Seq2Seq Neural Architecture for Recommending Short Text Conversations**
Johnny Torres (*ESPOL U.*)
- **Interpolation and Prediction of PM2.5 based on Conditional Generative Adversarial Network and a forecasting model**
Luis E Colchado (*U. Católica San Pablo*)
- **Involving humans to learn attributes**
Nils Murrugarra-Llerena (*U. of Pittsburgh*); Adriana Kovashka (*U. of Pittsburgh*)
- **Hyperbolic Generative Adversarial Network, HGAN**
Nicolas Ignacio Fredes (*U. Tecnica Federico Santa Maria*); Diego Lazcano (*U. Tecnica Federico Santa Maria*); Werner Creixell (*U. Tecnica Federico Santa Maria*)
- **Ambient Lighting Generation for Flash Images with Conditional Adversarial Networks**
José Chávez (*UCSP*)
- **Transfer Learning for Algorithm Recommendation**
Gean T Pereira (*U. of São Paulo*); Moisés Santos (*U. of São Paulo*); Edesio Alcobaça (*U. of São Paulo*); Rafael Gomes Mantovani (*Federal Technology U. of Paraná*); Andre Carvalho (*USP, Brazil*)
- **Reinforcement Learning Approach to Fly Quadcopters with a Faulted Rotor**
Erick D Tornero (*UCSP*)
- **A genetic algorithm implementation for spatio-temporal variogram modelling to determine air quality monitoring network representativeness**
Karol Baca-Lopez (*Autonomous U. of the State of Mexico*); Cristobal Fresno (*National Inst. of Genomic Medicine*)
- **Global Model Explanation for Time Series**
Xochitl Watts (*Stanford U. Alumni*)
- **Does a dog desire cake? - Expanding Knowledge Base Assertions Through Deep Relationship Discovery**
Pedro A Colon-Hernandez (*MIT Media Lab*)
- **Mental lexicon for personality identification in texts**
Gabriela Ramirez-de-la-Rosa (*U. Autónoma Metropolitana*); Esau Villatoro-Tello (*U. Autónoma Metropolitana*); Hector Jimenez-Salazar (*U. Autónoma Metropolitana*)
- **Generation of time response of linear and nonlinear dynamic systems using autoencoders**
Jose Paniagua (*U. Autonoma de Occidente*); Jesús Alfonso López Sotelo (*U. Autónoma de Occidente*)
- **Low Shot Learning with Untrained Neural Networks for Imaging Inverse Problems**
Oscar F Leong (*Rice U.*); Wesam Sakla (*LLNL*)
- **Aggressive Language Identification in Social Media using Deep Learning**
Errol Wilder Wilder Mamani Condori (*RICS (Research and Innovation Center in Computer Science) UCSP*)
- **Understanding Safety Based on Urban Perception**
Felipe A. Moreno-Vera (*U. Católica San Pablo*)
- **Automatically Personalized Pain Intensity Estimation from Facial Expressions using CNN-RNN and HCRF in videos.**
Jefferson J Quispe Pinares (*U. Católica SanPablo*); Guillermo Camara-Chavez (*UFOP*)
- **Skin Cancer Analysis using Deep Learning**
Gabriel Jimenez (*PaPaMED*)
- **A novel stochastic model based on echo state networks for hydrological time series forecasting**
Edson Luque (*USP*)
- **Towards Identifying for Evidence of Drain Brain from Web Search Results using Reinforcement Learning**
Hector Murrieta (*U. of Copenhagen*); Ivan Vladimir Meza Ruiz (*U. Nacional Autónoma de México*); Pegah Alizadeh (*The Leonard de Vinci Engineering School*); Jorge Garcia (*Université Paris 13*)
- **Generative Adversarial Networks for Image Synthesis and Semantic Segmentation in Brain Stroke Images**
Israel Nazareth Chaparro Cruz (*U. Católica San Pablo*)
- **Auto-Rotating Perceptrons**
Daniel Alcides Saromo Mori (*PUCP*); Elizabeth Villota Cerna (*PUCP*); Edwin Villanueva Talavera (*Pontificia U. Católica del Perú*)
- **On the Unintended Social Bias of Training Language Generation Models with Latin American Newspapers**
Omar U Florez (*Capital One*)

Monday Poster Sessions

- **Dynamic Sparse Neural Networks**
Lucas Oliveira Souza (Numenta); Michaelangelo Caporale (Numenta); Subutai Ahmad (Numenta)
- **A Machine Learning Approach For Blood Vessel Segmentation In Chorioallantoic Membrane Images**
Leandro Ticia de la Cruz (IO-USP); Ligia Gomes (FCF-USP)
- **A Machine Learning approach to Neural Information Decoding of Spike Train Distances in the Peripheral Nervous System**
Oralia Nolasco-Jauregui (Tecana American U.); Juan A Vega-Fernandez (Independent)
- **Feature Selection Algorithm Recommendation for Gene Expression data with Meta Learning**
Robert A Aduviri (Pontifical Catholic U. of Peru); Edwin Villanueva Talavera (Pontificia U. Católica del Perú)
- **Using a self-supervised encoder for anticipating failures in industrial equipment**
Daniel Buades Marcos (Polytechnique Montréal)
- **See and Read: Detecting Depression Symptoms in Higher Education Students Using Multimodal Social Media Data**
Paulo Mann (U.e Federal Fluminense), Aline Paes (U.e Federal Fluminense)
- **Self-Supervised Object-Level Deep Reinforcement Learning**
William Agnew (U. of Washington), Pedro Domingos (U. of Washington)
- **Queering AI Ethics Pedagogy and Practice**
Luke Stark (Microsoft Research), Blake W Hawkins (Independent)
- **Representing Theory of Mind in Deep Reinforcement Learning**
Michael Walton (NIWC Pacific), Andrew Fuchs (NIWC Pacific), Theresa Chadwick (NIWC Pacific)
- **Lost at the Margins: A Quantitative Analysis of Implicit Assumptions in Modeling Identity**
Dylan Baker (Google AI), Phoenix Meadowlark (U. of Washington), Blaise Agüera y Arcas (Google AI)
- **Transformer-based unsupervised machine translation study from gender-less languages**
Meltem G. Atay (Middle East Technical U.)
- **Mining for Votes: Inferring Voting Trends from Twitter Data**
Isaac Mukonyezi (Uganda Technology and Management U.), Claire Babirye (Uganda Technology and Management U.), Ernest Mwebaze (Uganda Technology and Management U.)
- **On Speech Datasets in Machine Learning for Healthcare**
Jekaterina Novikova (Winterlight Labs), Aparna Balagopalan (Winterlight Labs)
- **Discrimination Outside the Textbook: Sources of Bias in Real-World Data Science**
Leif Hancox-Li (Capital One)
- **Natural Adversarial Examples**
Dan Hendrycks (UC Berkeley), Kevin Zhao (U. of Washington), Steven Basart (U. of Chicago), Jacob Steinhardt (UC Berkeley), Dawn Song (UC Berkeley)
- **On the Generality of Facial Forgery Detection**
Joshua Brockschmidt (U. of Washington), Jiacheng Shang (Temple U.), Jie Wu (Temple U.)
- **How natural language processing research can (and should) serve LGBTQ people**
Ian Stewart (Georgia Inst. of Technology)
- **Queering StyleGAN and Queering AI: systems analysis from the art studio**
Lee Butterman (Independent)
- **Privacy Enhanced Multimodal Neural Representations for Emotion Recognition**
Mimansa Jaiswal (U. of Michigan); Emily K Mower Provost (U. of Michigan)
- **Aligning Vector-spaces with Noisy Supervised Lexicons**
Noa Lubin (Bar-Ilan U.)
- **Cloud-assisted Unsupervised learning for Adaptive Stream Processing**
Maryleen U Ndubuaku (U. of Derby); Antonio Liotta (Edinburgh Napier); Ashiq Anjum (U. of Derby)
- **Context-dependent Acoustic Modeling without Classification and Regression Trees**
Tina Raissi (RWTH Aachen U.); Eugen Beck (RWTH Aachen U.); Ralf Schlüter (RWTH Aachen U.); Hermann Ney (RWTH Aachen U.)
- **Structured Variational Inference in Continuous Cox Process Models**
Virginia Aglietti (U. of Warwick); Edwin V Bonilla (CISRO's Data61); Theodoros Damoulas (U. of Warwick)
- **Predictive maintenance planning of road bridges using deep neural networks**
Zaharah Allah Bukhsh (U. of Twente); Irina Stipanovic (U. of Twente); AaqibSaeed (Eindhoven U. of Technology); André Dorée (U. of Twente)
- **An all-in-one network for dehazing and beyond**
Boyi Li (Cornell U.); Xulian Peng (Microsoft Research); Zhangyang Wang (TAMU); Jizheng Xu (MSRA); Dan Feng (Huazhong U. of Science and Technology)
- **Effective Creation of Ground Truth Data-set for Malaria Diagnosis Using Deep Learning**
Martha Stephen Shaka (The U. of Dodoma); Nyamos S Waigama (The U. of Dodoma)
- **A novel approach for improving stroke rehabilitation process using machine learning and artificial intelligence.**
Isuri Anuradha (Informatics Inst. of Technology); Lahiru Manohara (Informatics Inst. of Technology); Kaneeka Vidanage (Informatics Inst. of Technology)
- **Eye corners tracking for head movement estimation**
Agostina Larrazabal (CONICET / U. Nacional del Litoral); Cesar Martinez (CONICET / U. Nacional del Litoral)
- **Fast and Accurate Segmentation of Diabetic Foot Ulcer Images based on Mask Regions with Convolutional Neural Network Deep Learning Framework**
Rehema H Mwawando (NMIST)
- **Modeling Pipelines, Mechanistic and Data-Driven Agent-Based Models, to Explain Human Behavior in Online Networked Temporal Social Science Experiments**
Vanessa I Cedeno (Escuela Superior Politécnica del Litoral, ESPOL)

Monday Poster Sessions

- **Adapting Neural Networks for the Estimation of Treatment Effects**

Claudia Shi (Columbia U.); David Blei (Columbia U.); Victor Veitch (Columbia U.)

- **Industrial Audio Classification with Music Domain Features**

Patricia A Ryan (Microsoft); Chenhao Yang (Microsoft)

- **Speeding Up Parameter Estimation for DNA Kinetic Simulators Modeled as Continuous-Time Markov Chains**

Sedigheh Zolaktaf (U. of British Columbia); Frits Dannenberg (California Inst. of Technology); Erik Winfree (California Inst. of Technology); Alexandre Bouchard-Cote (U. of British Columbia); Mark Schmidt (U. of British Columbia); Anne Condon (U. of British Columbia)

- **Encouraging the decision boundaries of a classifier to capture data geometry**

Deshana K Desai (AiCure)

- **Medical Treatment Optimization with Supervised History Representation and Improvable Tree Search**

Luchen Li (Imperial College London); Matthieu Komorowski (Imperial College London); Aldo Faisal (Imperial College London)

- **Unsupervised Named Entity Recognition for Electronic Health Records using Bidirectional LSTM-CNN**

Asmita Poddar (National U. of Singapore)

- **Two-step Memory Networks for Deep Semantic Parsing of Geometry Word Problems**

Ishadi Jayasinghe (U. of Moratuwa); Surangika Ranathunga (U. of Moratuwa)

- **Bayesian Combinatorial Multi-Study Factor Analysis with the Indian Buffet Process**

Isabella N Grabski (Harvard U.); Roberta De Vito (Princeton U.); Lorenzo Trippa (Harvard U., Dana-Farber Cancer Inst.); Giovanni Parmigiani (Harvard U., Dana-Farber Cancer Inst.)

- **Asymptotic Guarantees for Learning Generative Models with the Sliced-Wasserstein Distance**

Kimia Nadjahi (Télécom ParisTech); Alain Durmus (ENS); Umut Simsekli (Telecom ParisTech); Roland Badeau (Télécom ParisTech)

- **Investigating Multilingual NMT Representations at Scale**

Sneha Kudugunta (Google); Ankur Bapna (Google Research); Isaac Caswell (Google); Orhan Firat (Google); Naveen Ari (Google)

- **Improving action branching for deep reinforcement learning with multi-dimension hybrid action space**

Laige Peng (The U. of Tokyo); Yoshimasa Tsuruoka (The U. of Tokyo)

- **The Impact of Sampling Fraction on Domain Adaptation for Automated Individual Performance Predictions of Small Group Interactions**

Uliyana Kubasova (U. of the Fraser Valley); Gabriel Murray (U. of the Fraser Valley)

- **CraftAssist: A Framework for Dialogue-enabled Interactive Agents**

Kavya Srinet (Facebook AI Research); Jonathan Gray (Facebook AI Research); Yacine Jernite (); Haonan Yu (Facebook AI Research); Zhuoyuan Chen (Facebook AI Research); Demi Guo (Facebook AI Research); Siddharth Goyal (Facebook AI Research); Larry Zitnick (Facebook AI Research); Arthur Szlam (Facebook)

- **Refining the Lottery Ticket Hypothesis**

Gintare Karolina Dziugaite (Element AI); Jonathan Frankle (MIT); Michael Carbin (MIT); Daniel M. Roy (U. of Toronto)

- **Newton-Laplace Updates for Block Coordinate Descent**

Si Yi Meng (U. of British Columbia); Mark Schmidt (U. of British Columbia)

- **A Deep Neuro-Fuzzy Network for Image Classification**

Omolabani Yazdanbakhsh (Xsensor Technology Corp)

- **Free Support Sinkhorn Barycenter with Frank-Wolfe**

Giulia Luise (U. College London); Saverio Salzo (Istituto Italiano di Tecnologia); Massimiliano Pontil (IIT); Carlo Ciliberto (Imperial College London)

- **Generalizability of Models in Alzheimer's Disease Classification**

Louise Bloch (Fachhochschule Dortmund); Christoph M. Friedrich (U. of Applied Sciences and Arts Dortmund)

- **Multi-Model Deep Networks for Metastatic Cancer Detection using Biopsy Lymph Node Images**

Azadeh Mobasher (Microsoft); Amin Mobasher (SainaHealth)

- **Kinematic encoding model of iEEG activity in the contralateral and ipsilateral hemisphere during a reaching task**

Christina M Merrick (U. of California, Berkeley); Tanner Dixon (U. of California, Berkeley); Jack Lin (U. of California, Irvine); Edward Chang (UCSF); Jose Carmena (U. of California, Berkeley); Robert Knight (UC Berkeley); Richard Ivry (U. of California, Berkeley)

- **Modeling Implicit Learning : Extracting Implicit Rules from Sequences using LSTM**

Ikram CHRAIBI KAAOUD (onepoint); Nicolas Rougier (INRIA Bordeaux Sud-Ouest); Frederic Alexandre (INRIA Bordeaux Sud-Ouest)

- **The Blessings of Multiple Causes**

Yixin Wang (Columbia U.); David Blei (Columbia U.)

- **Comparing Supervised and Unsupervised Evaluation Metrics to Evaluate GAN-Generated Images**

Sasha Luccioni (Mila); Sharon Zhou (Stanford U.)

- **Max-value Entropy Search for Multi-Objective Bayesian Optimization**

Syrine Belakaria (Washington State U.); Aryan Deshwal (Washington state U.); Janardhan Rao Doppa (Washington State U.)

- **Stretching the Effectiveness of MLE from Accuracy to Bias for Pairwise Comparisons**

Jingyan Wang (Carnegie Mellon U.); Nihar Shah (CMU); R Ravi (CMU)

- **Learning Feature Representations for Discriminative Clustering with Limited Supervision**

Corinne Jones (U. of Washington); Vincent Roulet (U. of Washington); Zaid Harchaoui (U. of Washington)

- **Multi-level Dense Capsule Networks**

Sai Samarth R Phaye (National U. of Singapore); Apoorva Sikka (Indian Inst. of Technology); Abhinav Dhall (Indian Inst. of Technology); Deepti Bathula (Indian Inst. of Technology)

- **Path Planning Approach for Ground Robots in 3D Environments using Sampling-based Algorithm**

Cebisile I Mthabela (CSIR); Daniel Withey (CSIR)

- **Beating SGD Saturation with Tail-Averaging and Minibatching**

Nicole Muecke (U. of Stuttgart); Gergely Neu (Universitat Pompeu Fabra); Lorenzo Rosasco ()

Monday Poster Sessions

- **Predicting interaction sites within protein domains**
Anat Etzion-Fuchs (Princeton U.); David Todd (Princeton U.); Mona Singh (Princeton U.)

- **Unsupervised evaluation of story similarity for personal narratives**
Belen C Saldias (MIT); Deb Roy (MIT Media Lab)

- **Abstract Rule Learning with Neural Networks**
Radha Manisha Kopparti (City, U. of London)

- **Wireheading in Partially-Embedded General Reinforcement Learning Agents**
Arushi Majha (U. of Cambridge)

- **Graph combinatorics based group-level network inference with an application to brain connectome study**
Qiong Wu (U. of Maryland); ShuoChen (U. of Maryland)

- **Effect of Gender on Interaction with Embodied Conversational Agents**
Procheta Nag (Simon Fraser U.); Ozge N Yalcin (Simon Fraser U.)

- **PAC Model-based Algorithm for Reinforcement Learning Using Spectral Methods**
Yanchao Sun (U. of Maryland); Furong Huang (U. of Maryland)

- **Evidential Disambiguation of Latent Multimodality in CVAEs**
Masha Itkina (Stanford U.); Boris Ivanovic (Stanford U.); Ransalu Senanayake (Stanford U.); Mykel Kochenderfer (Stanford U.); Marco Pavone (Stanford U.)

- **Beyond Imitation: Generative and Variational Choreography via Machine Learning**
Mariel N Petree (Yale U.); Chase Shimmin (Yale U.); Douglas Duhaime (Yale U.); Ilya Vidrin (Harvard U.)

- **Handwritten Annotation Localization on a Printed Document using Top-down Visual Saliency Models**
Shilpa Pandey (Indian Inst. of Technology Jodhpur)

- **Machine Learning for the Prediction of Life Expectancy of Heart Transplant Patients**
Ipsita Praharaj (Indian Inst. Of Technology); Prof. Ram Babu Roy (Indian Inst. Of Technology); Paras Chaudhary (Indian Inst. Of Technology)

- **Text Embeddings for Causal Inference**
Dhanya Sridhar (Columbia U.); Victor Veitch (Columbia U.); David Blei (Columbia U.)

- **Greedy InfoMax for Self-Supervised Representation Learning**
Sindy Löwe (U. of Amsterdam); Peter E.D. O'Connor (U. of Amsterdam); Bastiaan S Veeling (U. of Amsterdam)

- **Hardware-Aware Tractable Probabilistic Models for Resource Constrained Embedded Applications**
Laura I Galindez Olascoaga (KU Leuven); Wannes Meert (KU Leuven); Guy Van den Broeck (UCLA); Marian Verhelst (KU Leuven)

- **Estimating counterfactual treatment outcomes over time through adversarially balanced representations**
Ioana Bica (U. of Oxford, The Alan Turing Inst.); Ahmed Alaa (UCLA); Mihaela van der Schaar (U. of Cambridge, The Alan Turing Inst., UCLA)

- **Delayed Bandits with unknown delays.**

Manegue Anne Gael (Manegue Anne Gael); Alexandra Carpentier (Otto-von-Guericke-Universität Magdeburg); Michal Valko (Inria); Claire Vernade (google)

- **PAC-Bayes Generalization Bounds for Invariant Neural Networks**

Clare Lyle (U. of Oxford); Marta Kwiatkowska (Oxford U.); Yarin Gal (U. of Oxford)

- **Benchmarking the performance of Algorithms for working with Small Datasets**
Francisca O Oladipo (Islamic U. in Uganda)

- **A unified construction for series representations and finite approximations of completely random measures**

Xenia Masicoridou (U. of Oxford); Francois Caron (Oxford); Juho Lee (AITRICS)

- **On the Hardness of Robust Classification**

Pascale Gourdeau (U. of Oxford); Varun Kanade (U. of Oxford); Marta Kwiatkowska (Oxford U.); James Worrell (U. of Oxford)

- **Predictive Temporal Embedding of Dynamic Graphs**
Aynaz Taheri (UIC)

- **Topic-Aware Sentence Generation using Variational Autoencoder**

Yu-Ying Lin (National Cheng Kung U.); Hung-Yu Kao (National Cheng Kung U.)

- **Robust Over-the-Air Adversarial Examples Against Automatic Speech Recognition Systems**

Lea Schönher (Ruhr-Universität Bochum); Steffen Zeiler (Ruhr-Universität Bochum); Thorsten Holz (Ruhr-Universität Bochum); Dorothea Kolossa (Ruhr-Universität Bochum)

- **Deep Prototype Models and Human Image Categorization**

Pulkit Singh (Princeton U.); Joshua C Peterson (Princeton U.); Ruairidh Battleday (Princeton U.); Thomas Griffiths (Princeton U.)

- **Augmenting Chemical Datasets by Conformational Oversampling**

Jennifer Hemmerich (U. of Vienna); Ece Asilar (U. of Vienna); Guenter Klambauer (Johannes Kepler U. Linz); Gerhard F. Ecker (U. of Vienna)

- **Hyperparameter Inference in Gaussian Process Regression**

Vidhi Lalchand (Cambridge); Carl Edward Rasmussen (Cambridge)

- **Neural error correction for string representations of novel molecules**

Dzvenyymra Yarish (SoftServe)

- **Within- and Between-Dimension Clustering Using Regularized Tensor Decomposition**

Charlotte Ellison (U.S. Army Corps of Engineers); William Fields (U.S. Army Corps of Engineers); Joshua Parker (U.S. Army Corps of Engineers)

- **Can Avalanche Deposits be Effectively Detected by Deep Learning?**

Saumya Sinha (U. of Colorado, Boulder); Sophie Giffard-Roisin (U. of Colorado); Fatima Karbou (Meteo France); Michael Deschates (Irstea); Nicolas Eckert (Irstea); Anna Karas (Meteo France); Cécile Coléou (Meteo France); Claire Monteleoni (U. of Colorado)

- **Boosting for Dynamical Systems**

Naman Agarwal (Google); Nataly Brukhim (Princeton U.); Elad Hazan (Princeton U.); Zhou Lu (Princeton U.)

Monday Poster Sessions

- **The effect of text representation and domain specific long-range contextual information on a Recurrent Neural Network Language Model**
Linda N Khumalo (U. of the Witwatersrand)
- **A Filter-Based Feature Selection Algorithm Using Entropy of Feature Values on Local Neighborhoods**
Farinaz Pisheh (U. of Houston); Ricardo Vilalta (U. of Houston)
- **FUGUE: Characterizing functional genes across human tissues**
Gowthami Somepalli (U. of Maryland); Sarthak Sahoo (IISc); Sridhar Hannenhalli (Center for Cancer Research, National Cancer Inst.)
- **Interpretable Crowdsourcing for Subjective Dialog Annotations**
Judy Hanwen Shen (MIT)
- **Ignorance in Bliss: Semantic Pairing for Fine-Grained Recognition**
Ankita Shukla (Indraprastha Inst. of Technology - Delhi)
- **Knowledge Hypergraphs: Extending Knowledge Graphs Beyond Binary Relations**
Bahare Fatemi (U. of British Columbia); Perouz Taslakian (Element AI); David Vazquez (Element AI); David Poole (U. of British Columbia)
- **Improving Super-Resolution Methods via Incremental Residual Learning**
Rafia Rahim (National U. of computer and emerging sciences, islamabad); Sibt ul Hussain (National U. of Computer & Emerging Sciences (NUCES-FAST), Islamabad, Pakistan); Muneeb Aadil (Reveal Lab, National U. of Computer and Emerging Sciences)
- **Identification of Patterns in Cystic Fibrosis Physiotherapy with Unsupervised Learning**
Olga Liakhovich (Microsoft); MihaelaCurmei (Microsoft); Tempest van Schaik (Microsoft); Bianca Furtuna(Microsoft); Eleanor Main (UCL); EmmaRaywood (UCL); Nicole Filipow(UCL); Kunal Kapoor (UCL); Helen Douglas (UCL)
- **Approximating Interactive Human Evaluation with Self-Play for Open-Domain Dialog Systems**
Asma Ghandeharioun (MIT); Judy Hanwen Shen (MIT); Natasha Jaques (MIT); Craig Ferguson (MIT); Noah Jones (MIT); Agata Lapedriza Garcia (MIT); Rosalind Picard (MIT Media Lab)
- **Detecting Conditional Independence with Deep Learning for Causal Discovery**
Emily G Saldanha (Pacific Northwest National Laboratory); Svitlana Volkova (Pacific Northwest National Laboratory); Dustin Arendt (Pacific Northwest National Laboratory)
- **Deep Individual Fairness Verification**
Golnoosh Farnadi (Polytechnique Montreal); Behrouz Babaki (Polytechnique Montreal); Michel Gendreau (Polytechnique Montreal)
- **Supervised versus Semi-supervised Machine Learning in the search for new Physics with the ATLAS data at CERN**
Brigitte L Malobola (U. of the Witwatersrand)
- **Algorithmic guarantees for inverse imaging with untrained network priors**
Gauri Jagatap (Iowa State U.); Chinmay Hegde (Iowa State U.)

- **Improving Stream-Based Active Learning with Reinforcement Learning**

Sarah Wassermann (INRIA Paris); Thibaut Cuvelier (CentraleSupélec); Pedro Casas (AIT Austrian Inst. of Technology GmbH)

- **Data Sketching for Faster Training of Machine Learning Models**

Baharan Mirzasoleiman (Stanford U.); Jeff Bilmes (UW); Jure Leskovec (Stanford)

- **Provable Convolutional Sparse Coding via Nonconvex Optimization**

Laixi Shi (Carnegie Mellon Univiversity); Yuejie Chi (CMU)

- **Riemannian Frank-Wolfe Methods**

Melanie Weber (Princeton U.); Suvrit Sra (Massachusetts Inst. of Technology, USA)

- **Rethinking the Value of Asynchronous Solvers for Distributed Deep Learning**

Arissa Wongpanich (UC Berkeley); Yang You (UC Berkeley); James W Demmel (UC Berkeley)

- **Pattern analysis and user profiling from motion sensors data**

Geise Santos (U. of Campinas); Tiago Tavares (U. of Campinas); Anderson Rocha (U. of Campinas)

- **A sparse, data-efficient ECG representation is predictive of myocardial infarction without expert knowledge**

Sunayana Rane (MIT)

- **A Spatiotemporal Approach to Predicting Glaucoma Progression Using a CT-HMM**

Supriya Nagesh (Georgia Inst. of Technology); Alexander F Moreno (Georgia Inst. of Technolog); Hiroshi ishikawa (New York U.); Wollstein Gadi (NYU Langone Health, NYU Eye Center); Joel Schuman (NYU); James Rehg (Georgia Inst. of Technology)

- **Adaptive Masked Weight Imprinting for Few-shot Segmentation**

Mennatullah Siam (U. of Alberta); Boris Oreshkin (Element AI); Martin Jagersand (U. of Alberta)

- **Visual Saliency Against Adversarial Examples**

Amanda S Fernandez (U. of Texas at San Antonio); Richard Tran (U. of Texas at San Antonio); Michael Geyer (U. of Texas at San Antonio); David Patrick (U. of Texas at San Antonio)

- **Medical Image Segmentation: Volumetric Analysis of Traumatic Brain Lesions**

Shruti Jadon (Brown U.(Rhode Island Hospital))

- **Polynomial-time Algorithms for Multiple-arm Identification with Full-bandit Feedback**

Yuko Kuroki (The U. of Tokyo / RIKEN); Liyuan Xu (Gatsby Computational Neuroscience Unit); Atsushi Miyauchi (RIKEN Center for Advanced Intelligence Project); Junya Honda (The U. of Tokyo / RIKEN); Masashi Sugiyama (RIKEN/The U. of Tokyo)

- **Using Variational Autoencoders for Protein Structure Refinement and Design**

Sanaa Mansoor (U. of Washington)

- **Layout Composition from Attributed Scene Graphs**

Subarna Tripathi (Intel AI Lab); Anahita Bhiwandiwalla (Intel AI Lab)

- **Surface and Deep Features Ensemble for Sentiment Analysis of Arabic Tweets**

Hadeel Alnegheimish (Imperial College London); NoraAl-Twairesh (King Saud U.)

Monday Poster Sessions

- **Automated tissue segmentation of micro-CT images by deep learning and its application to comparative morphology**

Evropi Toulkeridou (Okinawa Inst. of Science and Technology Graduate U.); Evan Economo (Okinawa Inst. of Science and Technology Graduate U.); Kenji Doya (Okinawa Inst. of Science and Technology); Daniel Baum (Zuse Inst. Berlin)

- **Predictive Malware Response Action with Memory Forensic and Tree-Shaped Deep Neural Network**

rajchada chanajitt (Waikato U.)

- **Predicting Daily Medicine Expenditures via a Variance-based Generative Adversarial Network**

Shruti Kaushik (Indian Inst. of Technology Mandi); Abhinav Choudhury (Indian Inst. of Technology Mandi); Varun Dutt (IIT, Mandi)

- **Neural Encoder-Decoder based Urdu Conversational Agent**

Mehreen Alam (NUCES)

- **Evaluating Representation Learning Models: Representational Stability Analysis**

Samira Abnar (U. of Amsterdam); Willem Zuidema (U. of Amsterdam)

- **ExpandNets: Exploiting Linear Over-parameterization to Train Compact Networks**

Shuxuan Guo (EPFL); Jose M. Alvarez (NVIDIA); Mathieu Salzmann (EPFL)

- **Minimal IMAP MCMC: Accessible Software for Bayesian Inference of Bayesian Networks**

Mirae L Parker (Massachusetts Inst. of Tech); Tamara Broderick (MIT); Raj Agrawal (MIT)

- **Intelligent Pooling in Thompson Sampling for Rapid Personalization in Mobile Health**

Sabina J Tomkins (Harvard U.); Peng Liao (Harvard U.); Serena Yeung (Harvard U.); Susan Murphy (Harvard U.); Predag Klasnja ()

- **Task-Aware Novelty Detection for Visual Models via Network Saliency**

Valerie Chen (Yale U.); Man-Ki Yoon (Yale U.); Zhong Shao (Yale U.)

- **Replacing Markov Chain Monte Carlo with Generative Flow Neural Networks**

Kimmy K Cushman (Yale U.); George Fleming (Yale U.); Ciaran Hughes (Fermi National Accelerator Laboratory); James Simone (Fermi National Accelerator Laboratory); Joshua Isaacson (Fermi National Accelerator Laboratory); Yin Lin (U. of Chicago); William Jay (Fermi National Accelerator Laboratory)

- **A Multi-model Approach to Extract EDSS Scores from Multiple Sclerosis Consult Notes**

Zhen Yang (U. of Toronto); Chloe Pou-Prom (St. Michael's Hospital); Tony Antoniou (St. Michael's Hospital); Jiwon Oh (St. Michael's Hospital)

- **Granule and mossy cell gene expression study: single cell sequence alignment monitored by electroencephalography scans with Markov Chain and Bayes Estimation**

Qin He (TAU)

- **Infinite ensembles for uncertainty prediction**

Sina Däubener (Ruhr-U., Bochum); Agustinus Kristiadi (U. of Tuebingen); Asja Fischer (Ruhr U., Bochum)

- **Mapping of Narrative Text Fields To ICD-10 Codes Using Natural Language Processing and Machine Learning**

Risuna RW Nkolele (U. of the Witwatersrand)

- **Asymptotic Risk of Minimum Norm Least Squares Estimator in High Dimension under Spike Covariance Model**

Yasamansadat Mahdaviyeh (U. of Toronto)

- **Judge the Judges: A Large-Scale Evaluation Study of Neural Language Models for Online Review Generation**

Cristina Garbacea (U. of Michigan); Samuel Carton (U. of Michigan); Shiyan Yan (U. of Michigan); Qiaozhu Mei (U. of Michigan)

- **Deep Bayesian Bandits for Online Personalized Recommendations**

Dalin Guo (UC San Diego; Twitter, Inc.); Sofia Ira Ktena (Twitter, Inc.); Ferenc Huszar (); Wenzhe Shi (Twitter Inc.); Alykhan Tejani (Twitter, Inc.)

- **Scalable Diffusion Convolution Recurrent Neural Network for Large-Scale Traffic Forecasting**

Tanwi Mallick (Argonne National Laboratory); Prasanna Balaprakash (Argonne National Laboratory); Eric Rask (Argonne National Laboratory); Jane Macfarlane (Lawrence Berkeley National Laboratory)

- **Learning Bio-Markers of Social Cognition in Schizophrenia using fMRI**

Sindhu CM Gowda (U. of Toronto); Navona Calarco (Centre for Addiction and Mental Health); Ashish Khisti (U. of Toronto)

- **Soft Option Critic**

Elita Lobo (U. of Massachusetts Amherst)

- **Factors Influencing Postgraduate Students' Academic Performance: Machine Learning Approach**

Ayodele Esther Awokoya (U. of ibadan)

- **Multi-Decoder Network for Reconstruction of High Field-like MR Images**

Prabhjot Kaur (Indian Inst. of Technology, Mandi); Aditya Sharma (IIT-Hyderabad); Aditya Nigam (IIT mandi); Arnav Bhavsar (IIT Mandi)

- **Smooth background modeling in resonance search with Gaussian process in the Large Hadron Collider**

Yvonne Ng (U. of California, Irvine)

- **Sample-Efficient Reinforcement Learning with Maximum Entropy Episodic Control**

Marta Viseu Sarico (Imperial College London); Kai Arulkumaran (Imperial College London); Andrea Agostinelli (Imperial College London); Anil Anthony Bharath ((Imperial College of London, UK)); Pierre H Richemond (Imperial College)

- **AspeRa: Aspect-Based Rating Prediction Based on User Reviews**

Elena Tutubalina (Kazan Federal U.); Valentin A Malykh (Moscow Inst. of Physics and Technology); Anton M Alekseev (PDMI RAS); Ilya Shenbin (PDMI RAS); Sergey Nikolenko ()

- **FLARe: Forecasting by Learning Anticipated Representations**

Surya Teja Devarakonda (UMass Amherst); Yeahuay Wu (UMass Amherst); Yi R Fung (UMass Amherst); Madalina Fiterau (U. of Massachusetts Amherst)

- **Classification of the Coronary Artery Stenosis Score in Multiplanar Reconstruction Images**

Mariia Dobko (Ukrainian Catholic U.); Bohdan Petryshak (Ukrainian Catholic U.); Oles Dobosevych (Ukrainian Catholic U.)

Monday Poster Sessions

- **Optical Coherence Tomography Image Denoising and Ocular Disease Identification using Convolutional Neural Networks**

Neha Gour (*Indian Inst. of Information Technology Design and Manufacturing, Jabalpur*); Pritee Khanna (*Indian Inst. of Information Technology Design and Manufacturing Jabalpur*)

- **Way Off-Policy Deep Reinforcement Learning of Implicit Human Preferences in Dialog**

Natasha Jaques (*MIT*); Asma Ghandeharioun (*MIT*); Judy Hanwen Shen (*MIT*); Craig Ferguson (*MIT*); Agata Lapedriza Garcia (*MIT*); Noah Jones (*MIT*); Shixiang Gu (*Google Brain*); Rosalind Picard (*MIT Media Lab*)

- **Holistic Detection of Human Trafficking in Online Escort Market**

Aayushi Kulshrestha (*Mcgill U.*); Heather Bosiljevac (*McGill U.*); Reihaneh Rabbany (*McGill U.*)

- **End-to-End layout analysis system for historical scholar publications**

Olha Bakay (*ELEKS*); Kostiantyn Liepieshov (*Ukrainian Catholic U.*); Oles Dobosevych (*Ukrainian Catholic U.*)

- **Selection Bias Invalidates Fairness**

Joshua Loftus (*New York U.*); Margarita Boyarskaya (*New York U.*)

- **Counterfactual Risk Assessments, Evaluation, and Fairness**

Amanda Coston (*Carnegie Mellon U.*); Alexandra Chouldechova (*CMU*); Edward Kennedy (*Carnegie Mellon U.*)

- **Fast Dynamic Perfusion and Angiography Reconstruction using an End-to-end 3D CNN**

Sahar Yousefi (*Leiden U. Medical Center*); Lydiane Hirschler (*Leiden U. Medical Center*); Merlijn van der Plas (*Leiden U. Medical Center*); Mohamed S. Elmahdy (*LUMC*); Hessam Sokooti (*LUMC*); Matthias Van Osch (*Leiden U. Medical Center*); Marius Staring (*Leiden U. Medical Center*)

- **Prediction of Psychotic Delusions using Multisite Resting State Functional Connectivity Data from BSNIP1 Study**

Victoria T Okuneye (*U. of Chicago*)

- **Prediction of health-related quality of life from longitudinal self-reported symptom patterns in adult survivors of childhood cancer**

Farideh Bagherzadeh-Khiabani (*U. of Alberta*); Kevin Krull (*St. Jude Children's Hospital*); Greg Armstrong (*St. Jude Children's Hospital*); Melissa Hudson (*St. Jude Children's Hospital*); Leslie Robinson (*St. Jude Children's Hospital*); Yutaka Yasui (*U. of Alberta*); I-Chan Huang (*St. Jude Children's Hospital*)

- **Incorporating human priors in deep reinforcement learning for robot control**

Manon Flageat (*Imperial College London*); Kai Arulkumaran (*Imperial College London*); Anil Anthony Bharath (*Imperial College of London, UK*)

- **Online Handwriting Recognition using Encoder-Decoder Model**

Abeer Eisa (*U. of Khartoum*); Lina A Abdalla (*U. of Khartoum*)

- **Fairness in Predicting Risk of Prolonged Ventilation among Adult Cardiac Surgery Patients**

Eva Gjekmarkaj (*Carnegie Mellon U.*)

- **Application of Recurrent Auto-Encoders in Oilfield Sensor Validation**

Soumya Gupta (*Schlumberger*); Crispin Chatar (*Schlumberger*); Jose Celaya (*Schlumberger*)

- **Real-time Localized Style Transfer with Semantic Segmentation**

Lironne Kurzman (*U. of British Columbia (UBC)*); David Vazquez (*Element AI*); Issam Hadj Laradj (U. of British Columbia (UBC))

- **Unsupervised Machine Translation from West African Pidgin (Creole) to English**

Orevaoghene Ahia (*Instadeep*); Kelechi Ogueji (*Instadeep*)

- **DropCluster: A structured dropout for convolutional networks**

Liyan Chen (*Stevens Inst. of Technology*); Sergul Aydore (*Stevens Inst. of Technology*)

- **Combinatorial discrete optimization of linear classifiers with binary weights**

Ashrafi Ashrafi (*KU LEUVEN*); Matthew Blaschko (*KU Leuven*)

- **Watching the TV watchers**

Yun Zhang (*Georgia Inst. of Technology*); James Rehg (*Georgia Inst. of Technology*)

- **Visual Analytics for Interpretability on Deep Neural Networks**

Haekyu Park (*Georgia Inst. of Technology*); Fred Hohman (*Georgia Inst. of Technology*); Nilaksh Das (*Georgia Inst. of Technology*); Caleb Robinson (*Georgia Inst. of Technology*); Duen Horng Chau (*Georgia Inst. of Technology*)

- **Hierarchical Interest-Driven Associative Goal Babbling**

Rania Rayyes (*TU Braunschweig*); Jochen Steil (*TU Braunschweig*)

- **Where did the Political News Event Happen? Primary Focus Location Extraction in Different Languages**

Maryam Bahojb Imani (*U. of Texas*); Latifur Khan (*U. of Texas*)

- **Uncovering insights on kidnaps in Uganda using text mining**

Dorothy Kabarozi (*Efficiency Uganda*); Namugumya Sandra (*Makerere AI Research Laboratory*)

- **Modeling Opioid Abuse Indicators and Interventions in Appalachia**

Savannah J Thais (*Princeton U.*)

- **Soccer Match Statistics Predictor Using Machine Learning**

Suanny Fabyne S Vieira (*Centro de Informática, U.e Federal da Paraíba, Brazil*); Thaís do Régo (*Centro de Informática, U.e Federal da Paraíba, Brazil*); Juan Albuquerque (*Centro de Informática, U.e Federal da Paraíba, Brazil*); Thiago Filipe Rocha (*Centro de Informática, U.e Federal da Paraíba, Brazil*)

- **Boosting Relational Restricted Boltzmann Machines**

Navdeep Kaur (*U. of Texas*); Gautam Kunapuli (*UT Dallas*); Sriraam Natarajan (*UT Dallas*)

- **Rosalind: gene prioritization with tensor factorization**

Saeed Paliwal (*Benevolent AI*); Daniel Neil (*BenevolentAI*); Alex DeGiorgio (*Benevolent AI*); Alix Lacoste (*BenevolentAI*)

- **Cost-Sensitive Training for Autoregressive Models**

Irina Saparina (*National Research U. Higher School of Economics*); Anton Osokin (*HSE*)

- **Comparison of Neural Network Models for Entity-level Classification of Adverse Drug Reactions**

Ilseyar Alimova (*Kazan Federal U.*); Elena Tutubalina (*Kazan Federal U.*)

Monday Poster Sessions

- **AdaBoost-Models Ensemble Learning to forecast Time serieswith high variance and nonlinear Trend**
Belona Mary SONNA MOMO (AIMS)
- **Network-Based Approaches for Anti-Money Laundering**
Megan Yetman (Capital One); Jaime Y Kang (Capital One)
- **Learning Lexical Coreferability**
Yehudit K Meged (Bar Ilan U.); Ido Dagan (U. of Bar Ilan, Israel)
- **Analysis of Computation Resource Usage of Deep Learning Models on Breast Histopathology Images Classification Task**
Sadura Priscilla Akinrinwa (The Federal U. of Technology, Akure); Stephen Oni (Federal U. of Technology, Akure)
- **Using Stacked BDLMs for Fusion of Eye and Mouse Dynamics based User Authentication**
Yudong Liu (Western Washington U.); Yusheng Jiang (Western Washington U.); JohnDevenere (Western Washington U.)
- **Adversarial Manipulation of Attention-based Explanations**
Mansi Gupta (Petuum); Danish Pruthi (Carnegie Mellon U.); Bhuwan Dhingra (CMU); Zachary Lipton (Carnegie Mellon U.); Graham Neubig (Carnegie Mellon U.)
- **Goal-Conditioned Dynamic Graph Model for Task and Motion Planning**
M. Clara De Paolis Kaluza (Northeastern U.); Chris Paxton (NVIDIA); Animesh Garg (Stanford U.); Animashree Anandkumar (Caltech); Rose Yu (Northeastern U.)
- **Using Embeddings of Line Graph Powers to Retrieve Item Substitutes**
Dora Jambor (Shopify Inc.); Putra Manggala (Shopify Inc.); BrookeFitzgerald (Shopify)
- **Knowledge-Driven Hallucination for Low-Shot Classification**
Lillian Huang (U. of Maryland); Ser-Nam Lim (Facebook AI); Rama Chellappa (U. of Maryland); Abhinav Shrivastava (U. of Maryland)
- **Neural Collision-Clearance Estimator for Fast Motion Planning**
Chase Kew (Google Robotics); Aleksandra Faust (Google Brain); Brian Ichter (Google Brain); Maryam Bandari (Google X); Tsang-Wei Lee (Google Brain)
- **Deep Convolutional Network for Classifying Indian Summer Monsoons at a Daily Scale**
Moumita Saha (U. of Colorado Boulder); Brandon Finley (U. of Colorado Boulder); Claire Monteleoni (U. of Colorado Boulder)
- **PANR: Property Alignment Using Neural Reasoning**
Qian Yang (Duke U.); Gerardde Melo (Rutgers U.)
- **Online Change-Point Detection for High-Dimensional Data using Graphs**
Yang-Wen Sun (Humboldt-Universität zu Berlin); KaterinaPapagiannouli (Humboldt-Universität zu Berlin); Vladimir Spokoiny (Weierstrass Inst.)
- **Artificial intelligence applied in the real estate market in the Pantanal region**
Maicon Cunha (Inst.o Federal de Educação, Ciência e Tecnologia de Mato Grosso do Sul); Marcia Ferreira Cristaldo (Inst.o Federal de Educação, Ciência e Tecnologia de Mato Grosso do Sul); Leandro de Jesus (IFMS)

- **Attention is not not Explanation**
Sarah Wiegreffe (Georgia Inst. of Technology); Yuval Pinter (Georgia Inst. of Technology)
- **Using comparisons to Reduce cost of data annotation required to train models for bedside monitoring**
Jiaxian Sheng (CMU); Lujie Chen (CMU); Marilyn Hrvnak (U. of Pittsburgh); Michael R Pinsky (U. of Pittsburgh); Yichong Xu (Carnegie Mellon U.); Artur Dubrawski (CMU)
- **Learning 3D Priors With Adversarial Novel View Generation**
Aartika Rai (U. of Massachusetts Amherst)
- **Odium Revelio! – Detecting subtle hate speech in online news comments**
Sakshi Agarwal (U. of California, Irvine); sandya mannarwamy (Conduent Labs)
- **Online Agnostic Boosting**
Nataly Brukhim (Princeton); Xinyi Chen (Google); Elad Hazan (Princeton U.); Shay Moran (Google AI Princeton)
- **A computational framework for Acute Myocardial Infarction Prediction from Real World Data**
Procheta Nag (Simon Fraser U.)
- **Understanding Deep Networks via Extremal Perturbations and Smooth Masks**
Ruth C Fong (U. of Oxford); Mandela Patrick (U. of Oxford); Andrea Vedaldi (Oxford U.)
- **Social Reinforcement Learning to Combat Fake News Spread**
Mahak Goindani (Purdue U.); Jennifer Neville (Purdue U.)
- **Limitations and Biases in Facial Landmark Detection**
Azin Asgarian (Georgian Partners Inc); Shun Zhao (U. Health Network); Ahmed Bilal Ashraf (U. Health Network); Erin Browne (U. of Regina); Ken Prkachin (U. of Northern British Columbia); Alex Mihailidis ("U. of Toronto, Canada"); Thomas Hadjistavropoulos (U. of Regina); Babak Taati (U. Health Network)
- **Construction of knowledge graphs from Spanish text using Linked Data**
AnaB Rios-Alvarado (Autonomous U. of Tamaulipas); Andrea G. Garcia-Perez (Autonomous U. of Tamaulipas); TaniaGuerrero-Melendez (Autonomous U. of Tamaulipas)
- **Sharing is Caring: Exploring machine learning methods to facilitate medical imaging exchange using metadata only**
Salaar Liaqat (U. of Toronto); Joanna D Pineda (U. of Toronto); Jeevaa Velayutham (U. of Toronto); Allen Lee (U. of Toronto); Joshua Reicher (Stanford); Jason Nagels (Hospital Diagnostic Imaging Repository Services); Marzyeh Ghassemi (U. of Toronto, Vector Inst.); Benjamin Fine (U. of Toronto, Trillium Health Partners)
- **Improving Automatic Prediction of Driver Drowsiness In-the-wild using Adversarially Synthesized Examples of Sparsely Occurring Classes**
Aijen Joshi (Boston U.); Sandipan Banerjee (Affectiva); Survi Kyal (Affectiva); Taniya Mishra (Affectiva)
- **Automatic Detection of Driver Emotions and Expressions in Daily Driving Scenarios**
Sarah L Chen (Affectiva); Survi Kyal (Affectiva); Taniya Mishra (Affectiva); Rana Rana El Kalioubey (Affectiva)
- **Anomaly Detection with Machine Learning**
Janet Mutuku (African Inst. for Mathematical Sciences)

Monday Poster Sessions

- **Privacy Preserving Classification of High Dimensional Gene Expression Data**

Ariel Todoki (U. of Washington Tacoma); Martine De Cock (U. of Washington Tacoma); anderson nascimento (UW); Rafael Dowsley (Bar-Ilan U.); Davis Railsback (U. of Washington Tacoma); James Shen (U. of Washington Tacoma)

- **Out-of-Distribution Detection using Neural Rendering Models**

Yujia Huang (California Inst. of Technology); Sihui Dai (California Inst. of Technology); Tan Minh Nguyen (Rice U.); Animashree Anandkumar (Caltech); Richard Baraniuk (Rice U.)

- **Efficient Data Deletion from Learned Models and Privacy Implications**

Mary Anne Smart (UCSD); James Zou (Microsoft); Zachary Izzo (Stanford); Kamalika Chaudhuri (U. of California, San Diego)

- **Adaptive Partitioning of Persistence Diagrams for Template Function Featurization**

Sarah J Tymochko (Michigan State U.); Elizabeth Munch (Michigan State U.); Firas Khasawneh (Michigan State U.)

- **CNN based object detection, tracking and trajectory prediction for autonomous driving**

Sugirtha Thayalan (NIT Trichy); M. Sridevi (NIT Trichy); Hazem Rashed (Valeo); Senthil Yogamani (Valeo Vision Systems)

- **Machine learning for odor molecules psychophysiological effect prediction**

Eliane D Birba (KTH Royal Inst. of Technology)

- **Resource Allocation Optimization In Home Health Care: A Reinforcement Learning Approach**

Sanae Lotfi (Polytechnique Montréal); Ola Mohamed (Africain Inst. for Mathematical Sciences); Loubna Benabou (UQAR); Abderrahim Khalifa (Polytechnique Montreal); Amine BELLAHSEN (Polytechnique Montreal)

- **Multimodal Boredom Predictor for Empathetic Conversational Agent**

Samiha Samrose (U. of Rochester); Kavya Anbarasu (Affectiva); Ajjen Joshi (Affectiva); Taniya Mishra (Affectiva)

- **VolMap: A Real-time Model for Semantic Segmentation of LiDAR surrounding view**

Hager Radi (U. of Alberta)

- **Codon2Vec: A Vector Space Model Approach for Predicting Expression Level from Genetic Sequences**

Rhondene J Wint (UC - Merced)

- **Audio Prediction as Intrinsic Reward for Exploration**

Victoria Dean (Carnegie Mellon U.); Shubham Tulsiani (Facebook AI Research); Abhinav Gupta (Carnegie Mellon U. Robotics Inst.)

- **End to End Learning for Autonomous Wheelchairs**

Najmeh Taleb (Blue Horizon AI); Jenny Midwinter (Blue Horizon AI)

- **Explicitly using Subordinating Conjunctions for Sentence Fusion**

Wanlin Xie (Columbia U.); Kathleen McKeown (Columbia U.)

- **Off-Policy Evaluation in Contextual Bandits using Robust Regression**

Anqi Liu (California Inst. of Technology); Hao Liu (California Inst. of Technology); Animashree Anandkumar (Caltech); Yisong Yue (Caltech)

- **Feature Importance Interpretation of Dependent Features in Deep Learning**

Xiaoxiao Li (Yale U.); Nicha Dvornek (Yale U.); James S Duncan (Yale U.)

- **Audio-Visual Emotion Recognition Using a Hybrid Deep Convolutional Neural Network based on Census Transform**

Jadisha Yarif Ramirez Cornejo (U. of Campinas)

- **Temporal Landmarks**

Veronica Chelu (McGill U.); Doina Precup (McGill U.)

- **Prototypical Regularization in Deep Neural Networks**

Cusuh Ham (Georgia Inst. of Technology); James S Smith (Georgia Inst. of Technology); Cole DeLude (Georgia Inst. of Technology)

- **From massive pre-trained models to small low-latency deployment: discovering the simplicity behind over-parameterized neural networks**

Yue Li (Salesforce); Wenhao Liu (Salesforce Metamind)

- **Tissue Classification of Infant Brain MRI Using Local Image Patch CNNs and VQ-VAEs**

Yeon Kim (UCLA); Emily Dennis (U. of Utah); Kathryn Humphreys (Vanderbilt U.); Lucy King (Stanford U.); Ian Gotlib (Stanford U.); David Shattuck (UC Los Angeles)

- **Deep learning automates prognosis of prenatal hydronephrosis using ultrasounds alone**

Marta Skreta (U. of Toronto); Lauren Erdman (Hospital for Sick Children, U. of Toronto); Mandy Rickard (Hospital for Sick Children); Carson McLean (U. of Toronto); Aziz Mezlini (Hospital for Sick Children); Anne-Sophie Blais (Hospital for Sick Children); Michael Brudno (U. of Toronto); Anna Goldenberg (U. of Toronto); Armando Lorenzo (Hospital for Sick Children)

- **Semi-Supervised Learning with Normalizing Flows**

Pavel Izmailov (New York U.); Polina Kirichenko (New York U.); Marc Finzi (New York U.); Andrew Gordon Gordon Wilson (New York U.)

- **An MRI Inter-Modality Reconstruction Network using Multiscale Feature Transformation**

Preethi Srinivasan (IIT Mandi); Prabhjot Kaur (IIT); Aditya Nigam (IIT Mandi); Arnab Bhavsar (IIT Mandi)

- **Towards Emotional Intelligence in Embodied Social AI Systems**

De'Aira G Bryant (Georgia Inst. of Technology)

- **Fairness in Contextual Bandits with Partial Monitoring for Optimized Diagnostic**

Awa SAMAKE (AIMS-Rwanda / Mila); Audrey Durand (Université Laval); Joelle Pineau (McGill / Facebook)

- **SLIDE : In Defense of Smart Algorithms over Hardware Acceleration for Large-Scale Deep Learning Systems**

Beidi Chen (Rice U.)

- **Medical images processing modality classification using k-means clustering and discrete Bayesian Networks**

Birtukan Destaw Bayleyegn (Addis Abeba U.); Eskender Girmay Gebremicheal (Jomo Kenyatta U.); Seblework Destaw Bayleyegn (Wollo U.)

- **Policy Transfer of Autonomous vehicle controllers via Multi-agent adversarial noise**

Kathy Jang (UC Berkeley)

- **Optimal Learning of Change in a Populations of Parameters**

Ramya Korlakai Vinayak (U. of Washington); Weihao Kong (Stanford U.); Sham Kakade (U. of Washington)

Monday Poster Sessions

- **Learning Dynamic Context Graphs for Societal Event Prediction**
Songgaojun Deng (STEVENS Inst. OF TECHNOLOGY); Huzefa Rangwala (George Mason U.); YueNing (Stevens Inst. of Technology)
- **Multimodal Understanding of Passenger Intents in Autonomous Vehicles**
Eda Okur (Intel Labs); Shachi H Kumar (Intel Labs); Saurav Sahay (Intel); Lama Nachman (Intel Labs)
- **Bayesian nonparametric shared multi-sequence time series segmentation**
Olga Mikheeva (KTH Royal Inst. of Technology); Ieva Kazlauskaitė (U. of Bath); Hedvig Kjellström (KTH Royal Inst. of Technology); Carl Henrik Ek (U. of Bristol)
- **Enhancing Adversarial Example Transferability with an Intermediate Level Attack**
Qian Huang (Cornell U.); Isay Katsman (Cornell U.); Ziqi Gu (Cornell U.); Horace He (Cornell U.); Serge Belongie (Cornell U.); Ser-Nam Lim (Facebook AI)
- **Intrinsic motivation in creative activity: A human behavioral experiment for identifying the factors that influence intrinsic motivation.**
Shoko Ota (Okinawa Inst. of Science and Technology); Kenji Doya (Okinawa Inst. of Science and Technology)
- **Using domain adaptation in Neural Language Model**
Lavisha Aggarwal (Amazon Research)
- **Augmentation at Test-Time: Cheap Increases in Off-the-Shelf Accuracy**
Divya Shanmugam (MIT); Roshni Sahoo (MIT)
- **Light Weight Single-Shot Refinement Neural Network for Object Detection**
Aishwarya Gupta (U. of Utah); Manasa Kolla (Conduent); Hardi Desai (Conduent)
- **Understanding multitask learning in deep networks under various weighting strategies**
Ting Gong (intel Corp.); Suchismita Padhy (Intel AI Lab); Tyler P Lee (Intel AI Lab); Cory Stephenson (Intel); Venkata Renduchintala (Intel AI Lab); Oguz H Elibol (Intel Corp.)
- **Dueling Posterior Sampling for Preference-Based Reinforcement Learning**
Ellen R Novoseller (California Inst. of Technology); Yanan Sui (Stanford U.); Yisong Yue (Caltech); Joel Burdick (Caltech)
- **Deep Attention Models for Human Tracking Using RGBD**
Srishti Yadav (Simon Fraser U.); maryam rasouli (sfu)
- **Automating Stylistic Bias Detection in Sentiment Analysis**
Lauren Fratamico (MIT); Judy Hanwen Shen (MIT); Iyad Rahwan (MIT); Alexander Rush (Harvard)
- **SuperGLUE: A Stickier Benchmark for General-Purpose Language Understanding Systems**
Yada Pruksachatkun (NYU); Alex Wang (NYU); Nikita Nangia (NYU); Amanpreet Singh (Facebook); Julian Michael (U. of Washington); Felix Hill (DeepMind); Omer Levy (Facebook); Samuel R. Bowman (New York U.)
- **Community Detection with Graph Convolutional Networks using Semi-supervised Node Classification**
Naw Safrin Sattar (U. of New Orleans); Shaikh M. Arifuzzaman (U. of New Orleans)

- **DDxNet: A Multi-Specialty Diagnostic Model for Clinical Time-Series**
Deepta Rajan (ibm research); Jayaraman J. Thiagarajan (LLNL); Sameeksha Katoch (Arizona State U.)
- **Towards an EmoCog Model for Multimodal Empathy Prediction**
Bita Azari (Simon Fraser U.); Zhitian Zhang (Simon Fraser U.); Angelica Lim (Simon Fraser U.)
- **Preference modeling with context-dependent salient features**
Amanda Bower (U. of Michigan); Laura Balzano (U. of Michigan)
- **Predicting Dynamic Embedding of user and item for Personalized recommendation**
Shalini Pandey (U. of Minnesota)
- **Task-Aware Learned Image Compression**
Prachi Gupta (New York U.); Siddharth Garg (New York U.)
- **An Evolutionary Multi-Objective Approach to Improved Decision-Making in Livestock Feed Formulation**
Senorpe Asem-Hiablie (Penn State U.); Daniel Uyeh (Kyungpook National U.)
- **Non convex combinations in Multiple Kernel Learning**
Gaelle Loosli (PobRun - LIMOS)
- **The Medical Deconfounder: Assessing Treatment Effects with Electronic Health Records**
Linying Zhang (Columbia U.); Yixin Wang (Columbia U.); Anna Ostropolets (Columbia U.); Jami Mulgrave (Columbia U.); David Blei (Columbia U.); George Hripcak (Columbia U.)
- **Tackling corporate climate change response with machine learning: Analysis of business performance in the context of climate change risks and opportunities**
Shruti Kulkarni (Indian Inst. of science); Patil Balachandra (Indian Inst. of science)
- **Deep learning-based Time-series Clustering for Identifying Product Usage Patterns**
Chaitali Gupta (Salesforce Inc.); Anna Novakovska (Salesforce); Robin Glinton (Salesforce)
- **Contextual Bandits in a Non-stationary Environment**
Qingyun Wu (U. of Virginia); Hongning Wang (U. of Virginia); Huazheng Wang (U. of Virginia)
- **Adversarial Bipartite Matching**
Sima Behpour (U. of Pennsylvania); Brian Ziebart (UIC)
- **Machine Learning Techniques to Predict Diabetes in indigenous village no Pantanal, Brazil.**
Marcia Ferreira Cristaldo (Inst.o Federal de Educação, Ciência e Tecnologia de Mato Grosso do Sul); Leandro de Jesus (IFMS); Pablo Salomão (Inst.o Federal de Educação, Ciência e Tecnologia de Mato Grosso do Sul); Elitania de Oliveira (Inst.o Federal de Educação, Ciência e Tecnologia de Mato Grosso do Sul)
- **Monotonic Gaussian Process Flow and Compositional Uncertainty**
Ieva Kazlauskaitė (U. of Bath); Ivan Ustyuzhaninov (U. of Tübingen); Carl Henrik Ek (U. of Bristol); Neill Campbell (U. of Bath)
- **Adversarial Attacks and Defenses for Generative Models**
Rishika Agarwal (U. of Illinois Urbana Champaign); Sanmi Koyejo (Illinois/Google)

Monday Poster Sessions

- **Quark Gluon Plasma and Cold Nuclear Matter modification of Y states in ultra-relativistic heavy-ion collisions**
Santona Tuli (UC Davis and CMS Collaboration, CERN)
- **Exploration via Hierarchical Meta Reinforcement Learning**
Riya Sharma (Technical U. Munich); Navneet M Kumar (TU Munich)
- **ORIN: The Nigerian music database for the automatic music genre classification with Machine Learning Models**
Sakinat O Folorunso (Olabisi Onabanjo U.)
- **Sparse Tropical Matrix Factorization**
Amra Omanović (U. of Ljubljana, Faculty of Computer and Information Science); Polona Oblak (U. of Ljubljana, Faculty of Computer and Information Science); Tomaž Curk (U. of Ljubljana)
- **RGB-D Object Recognition Using Deep Convolutional Neural Networks**
Buket Yüksel (Koç U.)
- **Automatic Summarization Model on Biomedical Papers and MeSH Tagged Concepts**
Li-Ting Tang (National Cheng Kung U.); Hung-Yu Kao (National Cheng Kung U.)
- **Recognition of shape for Preschoolers**
Eluwumi F Buraimoh (U. of Witwatersrand, Johannesburg)
- **Democratizing State of the Art NLP using Parameter Efficient Multitask Learning with Adapter Layers**
Joy Rimchala (Intuit); Tharathorn Joy Rimchala (Intuit)
- **Evaluating Saliency Maps Using Interventions**
Akanksha Atrey (U. of Massachusetts Amherst); Kaleigh Clary (U. of Massachusetts); David Jensen (U. of Massachusetts Amherst)
- **Enabling Global Observations using Machine Learning and Satellite Imagery**
Esther Rolf (UC Berkeley); Jonathan Proctor (UC Berkeley); Tamara Carleton (U. of Chicago); Ian Bolliger (UC Berkeley); Vaishaal Shankar (UC Berkeley); Miyabi Ishihara (UC Berkeley); Benjamin Recht (UC Berkeley); Solomon Hsiang (UC Berkeley)
- **Algebraic Mathematical Word Problem Generation using Neural Language Generation Models**
Vijini K Liyanage (U. of Moratuwa); Surangika Ranathunga (U. of Moratuwa)
- **Towards Artificial Intelligence for Enhancing Quality of Education**
Frehiwot Gebrkrstos Girmay (Aksum U.)
- **Improving Healthcare Outcomes with Machine Learning - Stroke, a case study**
Priya Kumari (Optum); Rebecca S Dysthe (Optum)
- **Adversarial Robustness Curves**
Christina Göpfert (CITEC); Jan Philip Göpfert (Bielefeld U.); Barbara Hammer (CITEC, Bielefeld U.)
- **Triplet-Aware Scene Graph Embeddings**
Brigit Schroeder (UC Santa Cruz); Subarna Tripathi (Intel AI Lab); Hanlin Tang (Intel Corp.)
- **Deep Neural Network Model Compression**
Talotsing T Megouo (African Inst. For Mathematical Science)

- **Uncertainty-Aware Deep Temporal Asymmetric Multi-task Learning**
Hyewon Jeong (KAIST); Tuan Anh Nguyen (KAIST); Eunho Yang (KAIST); Sung Ju Hwang (KAIST)
- **Engagement and learning effectiveness: an explorative study with multimodal data in online learning environment**
Shimeng Peng (Nagoya U.); Lujie Chen (CMU); Fangli Xu (Squirrel AI Learning); KP Thai (Yixue); Richcard Tong (Squirrel AI Learning)
- **CodeCaption: A Dataset for Captioning Data Science Code**
Ioana Baldini (IBM Research); Kavitha Srinivas (IBM Research); Jiri Navratil (IBM Research)
- **Historical image captioning**
Iryna Kostyshyn (Ukrainian Catholic U.); Kostiantyn Liepieshov (Ukrainian Catholic U.); Oles Dobosevych (Ukrainian Catholic U.)
- **Malaria Prevalence and Prediction**
Nkiruka Odu (African U. of Science and Technology, Abuja)
- **Zone-DR: Discovery Radiomics via Zone-level Deep Radiomic Sequencer Discovery for Zone-based Prostate Cancer Grading using Diffusion Weighted Imaging**
Linda Wang (U. of Waterloo); Chris Dulhanty (U. of Waterloo)
- **Efficient Coding for Learned Source Compression**
Putri A van der Linden (U. of Amsterdam); Karen Ullrich (U. of Amsterdam)
- **Representation learning with deep convolutional neural network for clinical diagnosis in raw mass spectrometry-based data**
Khawla Seddiki (U. Laval)
- **Active Feature Elicitation**
Sriram Natarajan (UT Dallas); Srijita Das (U. of Texas); Nandini Ramanan (U. of Texas); Gautam Kunapuli (UT Dallas); Predrag Radivojac (Northeastern U.)
- **Deep Convolutional Neural Networks for Genome and Brain-Wide Molecular Neuroanatomy**
Pegah Abed-Esfahani (CAMH); Benjamin Darwin (SickKids); Jenny Yin (CAMH); Sean Hill (CAMH, U. of Toronto); Jason Lerch (SickKids, U. of Oxford); Leon French (CAMH, U. of Toronto)
- **Model Compression for optimized AI on the edge**
Sangeetha Marshathalli Siddegowda (Qualcomm Research)
- **Predicting the aircraft engine's health condition using classification algorithms and demonstrating the model performance measures**
Oishi Deb (Aston U., Rolls-Royce, Sky)
- **AFAR: A Deep Learning Based Tool for Automated Facial Affect Recognition**
Itir Onal Ertugrul (Carnegie Mellon U.); Laszlo A Jeni (Carnegie Mellon U.); Wanqiao Ding (U. of Pittsburgh); Jeffrey Cohn (U. of Pittsburgh)
- **Learning to be Interpretable**
Katarzyna A Janocha (Imperial College London); Anil Anthony Bharath ((Imperial College of London, UK)); Nick Linton (Imperial College)
- **Bandit Algorithms for Factorial Experiments**
Yutong Yan (McGill U.); Audrey Durand (Université Laval); Joelle Pineau (McGill / Facebook)

Monday Poster Sessions

- **Fake News Detection via NLP becomes harder**
Meghana Moorthy Bhat (The Ohio State U.); Zhixuan Zhou (Hongyi Honor College)
- **Applying Graph Neural Networks on Multimodal Biological Data**
Vaishnavi Subramanian (U. of Illinois at Urbana-Champaign); Tanveer Syeda-Mahmood (IBM Research); Minh Do (UIUC)
- **Debunking Debiasing: A Critique of Bias Measurement in NLP**
Su Lin Blodgett (U. of Massachusetts Amherst); Hanna Wallach (Microsoft Research); Hal Daumé III (U. of Maryland / Microsoft Research); Solon Barocas (Cornell U. / Microsoft Research)
- **Automate Diabetic Retinopathy Screening with Compact Deep Networks**
Mei Chen (Vision AI Corp.)
- **A Compact Network Model for Learning in Distribution Space**
Connie K Kou (NUS); Hwee Kuan Lee (ASTAR); Jorge Sanz (National U. of Singapore); Teck Khim Ng (National U. of Singapore)
- **A method for automated feed generation based on user's research interests**
Ivana Williams (Chan Zuckerberg Initiative)
- **AI TUNA : Automating Tuna Quality Evaluation using a Hierarchical ML Model**
Amina K Mim (Koozyt Inc.); Hideyuki Ono (Koozyt, Inc.); Yasushi Miyajima (Koozyt, Inc.); Atsushi Shionozaki (Koozyt, Inc.)
- **Towards a Morphological Word Representation of Neural Machine Translation for Low-Resource and Morphologically-Rich Languages**
Kristine Mae M. Adlaon (De La Salle U.); Nelson Marcos (De La Salle U.)
- **Greedy Sampling for Approximate Clustering in Presence of Outliers**
Sharvaree Vadgama (U. of Utah); Aditya Bhaskara (U. of Utah)
- **A Genetic Version of the Expectation Maximisation Algorithm for System Identification in a Non-linear Dynamical System**
Thompho Rambuda (CSIR)

- **Adaptive Genetic Algorithm for Improving Prediction Accuracy of a Multi-Criteria Recommender System**
LatifatMiss Abdulsalam (African U. of science and technology); Mohammed Hassan (U. of Aizu); Mohamed Hamada (U. of Aizu)
- **Real World Reasoning in Videos**
Aisha Urooj (U. of Central Florida); Mubarak Shah (U. of Central Florida); Niels da Vitoria Lobo (U. of Central Florida)
- **Examining the Association between Surgical Wait Times and Hospital Length of Stay Using Machine Learning Algorithms**
Habibeh Naderi (Dalhousie U.); Behrouz Haji Soleimani (Dalhousie U.); Lynn Lethbridge (Nova Scotia Health Authority); JoAnne Douglas (Nova Scotia Health Authority); Stan Matwin (Dalhousie U.); Michael Dunbar (Dalhousie U.)
- **Boosted Siamese Network for Large-Scale Classification**
Tong Jian (Northeastern U.); Stratis Ioannidis (Northeastern U.)
- **Brain Segmentation Using Adversarial Learning**
Shivangi Aneja (Technical U. Of Munich)
- **Understanding Generalization in Deep Learning via Tensor Methods**
Jingling Li (UMD); Yanchao Sun (U. of Maryland, College Park); Liu Ziyin (U. of Tokyo); Taiji Suzuki (The U. of Tokyo / RIKEN); Furong Huang (U. of Maryland)
- **Generative and Multi-phase Learning for Computer Systems Optimization**
Yi Ding (The U. of Chicago); Nikita Mishra (The U. of Chicago); Henry (Hank) Hoffmann (The U. of Chicago)
- **Estimating distributional shifts for cross-domain learning**
Isabela Albuquerque (Inst. National de la Recherche Scientifique); Joao B Monteiro (Inst. National de la Recherche Scientifique); Olivier Rosanne (Inst. National de la Recherche Scientifique); Abhishek Tiwari (IITGP); Jean-François Gagnon (Thales Research and Technology); Tiago H Falk (INRS-EMT)
- **Network Modeling of Orchestral Concert Programming**
Anna K Yanchenko (Duke U.)

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