

BIGMM 2020: IEEE INTERNATIONAL CONFERENCE ON MULTIMEDIA BIG DATA 2020

PROGRAM AUTHORS KEYWORDS

PROGRAM

Days: [Thursday, September 24th](#)
[Friday, September 25th](#) [Saturday, September 26th](#)

Thursday, September 24th

View this program: [with abstracts](#) [session overview](#) [talk overview](#)

08:30-09:30 Session 1: Keynote I

Keynote 1

CHAIR: [Yi Yu](#)

09:30-10:00 Coffee Break

10:00-11:30 Session 2: Best paper candidate

Best paper candidate presentations

CHAIR: [Jianquan Liu](#)

10:00 [Rui Zhang](#), [Yacheng Rong](#) and [Zilong Wu](#)
Trajectory Similarity Assessment on Road Networks via Embedding Learning ([abstract](#))

10:20 [Vinod Chhapariya](#), [Sailaja Rajanala](#) and [Manish Singh](#)

Tag Boosted Hybrid Recommendations for Multimedia Data ([abstract](#))

10:40 [Alexander Berman](#) and [Francis Quek](#)
ThingiPano: A Large-Scale Dataset of 3D Printing Metadata, Images, and Panoramic Renderings for Exploring Design Reuse ([abstract](#))

11:00 [Vikram Patil](#) and [Pradeep K. Atrey](#)
GeoSecure-R: Secure Computation of Geographical Distance using Region-anonymized GPS Data ([abstract](#))

11:30-13:00 Session 3: Content Processing and Understanding I

Content Processing and Understanding I

CHAIR: [Mukesh Saini](#)

11:30 [Adrita Barari](#), [Rajat Katiyar](#), [Payanshi Jain](#), [Juhi Srivastava](#), [Nvs Abhilash](#), [Ankit Sati](#), [Chirag Jain](#) and [Ghulam Mohiuddin Khan](#)
DUPLICATE INSTANCE IDENTIFICATION IN MULTIVIEW AND MULTISCALE SYSTEMS

([abstract](#))

11:50 [Susmita Gangopadhyay](#) and [Ravikiran S.M](#)
Focused Questions and Answer Generation by Key Content Selection ([abstract](#))

12:10 [Pratibha Kumari](#) and [Mukesh Saini](#)
Multivariate Adaptive Gaussian Mixture for Scene Level Anomaly Modeling ([abstract](#))

12:30 [Liang Tan](#), [Lin Li](#), [Yifeng Han](#), [Dong Li](#), [Kaixi Hu](#) and [Dong Zhou](#)
An Empirical Study on Ensemble Learning of Multimodal Machine Translation ([abstract](#))

13:00-14:00 Lunch Break

14:00-15:30 Session 4A: Invited Papers I - Content Understanding

Invited Papers I - Content Understanding

CHAIR: [Arun Buduru](#)

14:00 [Bita Houshmand](#) and [Naimul Khan](#)
Facial Expression Recognition Under Partial Occlusion from Virtual Reality Headsets based on Transfer Learning ([abstract](#))

14:20 [Vishaal Udandarao](#), [Mohit Agrawal](#), [Rajesh Kumar](#) and [Rajiv Ratn Shah](#)

On the Inference of Soft Biometrics from Typing Patterns Collected in a Multi-device Environment ([abstract](#))

14:40 [Sreyasee Das Bhattacharjee](#) and [Junsong Yuan](#)
Semantic Enhanced Sketch Based Image Retrieval with Incomplete Multimodal Query ([abstract](#))

15:00 [Mudit Verma](#) and [Arun Balaji Buduru](#)
Fine-grained Language Identification with Multilingual CapsNet Model ([abstract](#))

14:00-15:30 Session 4B: Invited papers II - Novel Applications

Invited papers II - Novel Applications

CHAIR: [Rajiv Shah](#)

14:00 [Shahid Nawaz Khan](#), [Maitree Leekha](#), [Jainendra Shukla](#) and [Rajiv Ratn Shah](#)
Vyaktiv: Hindi Multimodal Personality Assessment Dataset ([abstract](#))

14:20 [Shivam Rustagi](#), [Aakash Garg](#), [Pranay Raj Anand](#), [Rajesh Kumar](#), [Yaman Kumar](#) and [Rajiv Shah](#)

Touchless Typing Using Head Movement-based Gestures ([abstract](#))

14:40 [Manoranjan Mohanty](#) and [Waheeb Yaquub](#)
SEAMLESS AUTHENTICATION FOR ONLINE TEACHING AND MEETING ([abstract](#))

15:00 [Devashi Choudhary](#) and [Jainendra Shukla](#)

Feature Extraction and Feature Selection for Emotion Recognition using Facial Expression
([abstract](#))

15:30-16:00 Coffee Break

16:00-17:00 Session 5: Invited papers III - Deep Learning based Analysis

Invited papers III - Deep Learning based Analysis

CHAIR: [Saket Anand](#)

- 16:00 [Rohit Keshari](#), [Soumyadeep Ghosh](#), [Saheb Chhabra](#), [Mayank Vatsa](#) and [Richa Singh](#)
Unravelling Small Sample Size Problems in the Deep Learning World ([abstract](#))
- 16:20 [Anil Sharma](#), [Mayank K. Pal](#), [Saket Anand](#) and [Sanjit K. Kaul](#)
Stratified Sampling Based Experience Replay for Efficient Camera Selection Decisions ([abstract](#))
- 16:40 [Ankita Shukla](#), [Gullal S. Cheema](#) and [Saket Anand](#)
Semi-Supervised Clustering with Neural Networks ([abstract](#))

17:00-18:00 Session 6: Invited papers IV - Social Media

Invited papers IV - Social Media

CHAIR: [Koteswar Rao Jerripothula](#)

- 17:00 [Donghuo Zeng](#), [Yi Yu](#) and [Keizo Oyama](#)
Unsupervised Generative Adversarial Alignment Representation for Sheet music, Audio and Lyrics ([abstract](#))
- 17:20 [Jamal Alasadi](#), [Ramanathan Arunachalam](#), [Pradeep K. Atrey](#) and [Vivek K. Singh](#)
A Fairness-Aware Fusion Framework for Multimodal Cyberbullying Detection ([abstract](#))
- 17:40 [Akansha Gautam](#) and [Koteswar Rao Jerripothula](#)
SGG: Spinbot, Grammarly and GloVe based Fake News Detection ([abstract](#))
- 18:00 [Bhaye Malhotra](#) and [Dinesh Kumar Vishwakarma](#)
Classification of Propagation Path and Tweets for Rumor Detection using Graphical Convolutional Networks and Transformer based Encodings ([abstract](#))

Friday, September 25th

View this program: [with abstracts](#) [session overview](#) [talk overview](#)

08:30-09:30 Session 7: Keynote II

Keynote

CHAIR: [Av Subramanyam](#)

09:30-10:00 Coffee Break

10:00-11:30 Session 8: User Engagement

User Engagement

CHAIR: [Av Subramanyam](#)

- 10:00 [Yassin Alkhalili](#), [Tobias Meuser](#) and [Ralf Steinmetz](#)
A Quick Survey of Volumetric Content Streaming Approaches ([abstract](#))
- 10:20 [Uday Kulkarni](#), [Meena S.M.](#), [Praison Joshua](#), [Kevin Rodrigues](#) and [Sunil V Gurlahosur](#)
Integrated Crowd Sourcing Framework Using Deep Learning for Digitalization of Indian Heritage Infrastructure ([abstract](#))
- 10:40 [Vaibhav Mathur](#), [Rishabh Gupta](#), [Suryansh Tibarewal](#) and [Swati Aggarwal](#)
A Realistic Polar Influence Propagation Model for Location based Social Networks ([abstract](#))
- 11:00 [Saurabh Gupta](#), [Asmit Kumar Singh](#), [Arun Balaji Buduru](#) and [Ponnurangam Kumaraguru](#)
Hashtags are (not) judgemental: The untold story of Lok Sabha elections 2019 ([abstract](#))

11:30-13:00 Session 9: Content Processing and Understanding II

Content Processing and Understanding II

CHAIR: [Rameshwar Pratap](#)

- 11:30 [Sejal Bhalla](#), [Dikshant Sagar](#), [Jatin Garg](#), [Prarthana Kansal](#), [Yi Yu](#) and [Rajiv Ratn Shah](#)
PAI-BPR: Personalized Outfit Recommendation Scheme with Attribute-wise Interpretability ([abstract](#))
- 11:50 [Pushpalatha K](#) and [Ananthanarayana V.S.](#)
Multimedia Document Mining using Sequential Multimedia Feature Patterns ([abstract](#))
- 12:10 [Vasisht Duddu](#) and [D. Vijay Rao](#)
Quantifying (Hyper) Parameter Leakage in Machine Learning ([abstract](#))
- 12:30 [Rameshwar Pratap](#), [Karthik Revanuru](#), [Anirudh Ravi](#) and [Raghav Kulkarni](#)
Efficient Compression Algorithm for Multimedia Data ([abstract](#))

13:00-14:00 Lunch Break

14:00-15:30 Session 10A: Short Paper - Content Analysis

Short Paper - Content Analysis

CHAIR: [Rajiv Shah](#)

- 14:00 [Dhruv Verma](#), [Kshitij Gulati](#) and [Rajiv Ratn Shah](#)
Addressing the Cold-Start Problem in Outfit Recommendation using Visual Preference

- Modelling** ([abstract](#))
- 14:15 [Abhijit Uday Kurtakoti](#) and [Satyadhyan Chickerur](#)
Steady Flow Approximation using Capsule Neural Networks ([abstract](#))
- 14:30 [Rahul Madaan](#), [Kanishk Rana](#) and [Arun Balaji Buduru](#)
Assessing risk of attacks in large networked system with Context Sensitive Probabilistic Modelling ([abstract](#))

14:00-15:30 Session 10B: Short Paper - Novel Applications

Short Paper - Novel Applications

CHAIR: [Ayesha Choudhary](#)

- 14:00 [Gaurav Kumar Nayak](#), [Saksham Jain](#), [Venkatesh Babu Radhakrishnan](#) and [Anirban Chakraborty](#)
Fusion of Deep and Non-Deep Methods for Fast Super-Resolution of Satellite Images ([abstract](#))
- 14:15 [Shreya Goyal](#), [Naimul Khan](#), [Chiranjoy Chattopadhyay](#) and [Gaurav Bhatnagar](#)
LayART: Generating indoor layout using ARCore Transformations ([abstract](#))
- 14:30 [Kelvin Lin](#) and [Bhojan Anand](#)
Procedural Generation of Roads with Conditional Generative Adversarial Networks ([abstract](#))
- 14:45 [Yusuke Kondo](#), [Takafumi Sakura](#) and [Toshihiko Yamasaki](#)
Text-to-Clipart using AttnGAN ([abstract](#))

15:30-16:00 Coffee Break

16:00-17:30 Session 11: Undergraduate Student Consortium and Demo

Undergraduate Student Consortium and Demo

CHAIR: [Deepak Gangadharan](#)

- 16:00 [Himanshu Singh](#) and [Rajiv Shah](#)
BOOKiiT - Designing a Venue Booking System ([abstract](#))
- 16:15 [Mohit Mishra](#), [Varun Parashar](#) and [Rushikesh Shimpi](#)
Development and evaluation of an AI System for early detection of Covid-19 pneumonia using X-ray ([abstract](#))
- 16:30 [Sahana B.S.](#), [Sandhya G.](#), [Tanuja R.S.](#), [Sushma Ellur](#) and [Ajina A](#)
Towards a Safer Conversation Space: Detection of Toxic Content in Social Media ([abstract](#))
- 16:45 [Prakhar Goel](#), [Mihir Goyal](#) and [Rajiv Ratn Shah](#)
Arten-Net: An Emotion Classification System for Art ([abstract](#))

- 17:00 [Kritika Rupaulhia](#), [Aman Goyal](#), [Aman Saini](#) and [Akshay Shukla](#)
Multimodal Emotion Recognition in Polish ([abstract](#))
- 17:15 [Aseel Bajhmoum](#), [Saoud Alboqami](#), [Muath Alghamdi](#), [Mohammad Alasmari](#), [Abdulaziz Alshaer](#) and [Tarik Alafif](#)
Crowd Flow Collisions Simulation ([abstract](#))

17:30-18:30 Townhall Meeting

Townhall Meeting

CHAIR: [Chiranjoy Chattopadhyay](#)

Saturday, September 26th

View this program: [with abstracts](#) [session overview](#) [talk overview](#)

08:30-09:30 Session 12: Keynote III

Keynote

CHAIR: [Rajiv Shah](#)

09:30-10:00 Coffee Break

10:00-11:30 Session 13A: Novel Applications

Novel Applications

CHAIR: [Dinesh Vishwakarma](#)

- 10:00 [Anatolij Zabrovskiy](#), [Prateek Agrawal](#), [Roland Mathá](#), [Christian Timmerer](#) and [Radu Prodan](#)
ComplexCTTP: Complexity Class Based Transcoding Time Prediction for Video Sequences Using Artificial Neural Network ([abstract](#))
- 10:20 [Ashima Yadav](#) and [Dinesh Kumar Vishwakarma](#)
A Weighted Text Representation framework for Sentiment Analysis of Medical Drug Reviews ([abstract](#))
- 10:40 [Swaraj Kumar](#), [Sandipan Dutta](#), [Shaurya Chaturvedi](#) and [Mps Bhatia](#)
Strategies for Enhancing Training and Privacy in Blockchain Enabled Federated Learning ([abstract](#))
- 11:00 [Saichethan Reddy](#) and [Saisree Miriyala](#)
Exploring Multi Feature Optimization for Summarizing Clinical Trial Descriptions ([abstract](#))
- 11:15 [Priyankar Choudhary](#), [Neeraj Goel](#) and [Mukesh Saini](#)
Event Detection and Localization for Sparsely Populated Outdoor Environment using Seismic Sensor ([abstract](#))

10:00-13:00 Session 13B: DHPYH

Digital Humanities into the Palm of Your Hand

CHAIR: [Patty Goodman](#)

11:50-13:00 Session 14A: BDH I

BDH I

CHAIR: [Gaurav Bhatnagar](#)

11:50 [Indrajeet Kumar Sinha](#), [Krishna Pratap Singh](#) and [Shekhar Verma](#)
DP-ANN: A new differential private Artificial Neural Network with Application on Health data ([abstract](#))

12:10 [Anupam Prakash](#), [Piyush Sharma](#), [Indrajeet Kumar Sinha](#) and [Upendra Pratap Singh](#)
Spread & Peak Prediction of Covid-19 using ANN and Regression ([abstract](#))

12:30 [Ashima Anand](#) and [Amit Kumar Singh](#)
RDWT-SVD-FIREFLY BASED DUAL WATERMARKING TECHNIQUE FOR MEDICAL IMAGES ([abstract](#))

11:50-13:00 Session 14B: MAISG I

MAISG I

CHAIR: [Ramit Sawhney](#)

11:50 [Srishti Vashishtha](#) and [Seba Susan](#)
UNSUPERVISED FUZZY INFERENCE SYSTEM FOR SPEECH EMOTION RECOGNITION USING AUDIO & TEXT CUES ([abstract](#))

12:10 [Ankit Yadav](#) and [Dinesh Kumar Vishwakarma](#)
Recent Developments in Generative Adversarial Networks: A Review ([abstract](#))

12:30 [Shreya Singal](#), [Tanishq Goel](#), [Shivang Chopra](#) and [Sonika Dahiya](#)
Open Domain Suggestion Mining using Fine-Grained Analysis ([abstract](#))

13:00-14:00 Lunch Break

14:00-15:30 Session 15A: BDH II

BDH II

CHAIR: [Gaurav Bhatnagar](#)

14:00 [Sanoj Kumar](#), [Manoj K. Singh](#), [Musrrat Ali](#) and [Deepika Saini](#)
A robust medical image watermarking framework based on SVD and DE in Integer DCT domain ([abstract](#))

14:20 [Gaurav Kumar](#), [Shrabhan Chatterjee](#) and [Chiranjoy Chattopadhyay](#)
DRDNET: DIAGNOSIS OF DIABETIC RETINOPATHY USING CAPSULE NETWORK ([abstract](#))

14:40 [Nidhi Goel](#) and [Sammarjeet Kaur](#)
A Dilated Convolutional Approach for Inflammatory Lesion Detection Using Multi-Scale Input Feature Fusion ([abstract](#))

14:00-15:30 Session 15B: MAISG II

MAISG II

CHAIR: [Ramit Sawhney](#)

- 14:00 [Taru Jain](#)
Adversarial Machine Learning for Self Harm Disclosure Analysis ([abstract](#))
- 14:20 [Shivam Agarwal](#) and [Siddarth Venkatraman](#)
Deep Residual Neural Networks for Image in AudioSteganography ([abstract](#))
- 14:40 [Deekshith Godavarthi](#), [Aswath S.](#), [Debanik Mishra](#) and [Jayashree R](#)
Analysing Emotions on Lecture Videos using CNN AND HOG ([abstract](#))
- 15:00 [Hitkul Jangra](#), [Omkar Gurjar](#), [Aanshul Sadaria](#), [Kanay Gupta](#), [Shashank Srikanth](#), [Rajiv Ratn Shah](#) and [Ponnurangam Kumaraguru](#)
Are Bots Humans? Analysis of Bot Users in 2019 Indian Lok Sabha Elections ([abstract](#))

15:30-16:00 Coffee Break

16:00-17:00 Session 16: Grand Challenge

Grand Challenge

CHAIR: [Ramit Sawhney](#)

- 16:00 [Shashank Madhusudhan](#), [Siddhant Mahurkar](#) and [Suresh Kumar Nagarajan](#)
Attributional analysis of Multi-Modal Fake News Detection Models ([abstract](#))
- 16:15 [Saksham Bansal](#)
METOO BMGC: A MUTLI-TASK MUTLIMODAL FRAMEWORK FOR TWEET CLASSIFICATION BASED ON CNN ([abstract](#))
- 16:30 [Priyam Basu](#), [Soham Tiwari](#), [Joseph Mohanty](#) and [Sayantan Karmakar](#)
Multimodal Sentiment Analysis of #MeToo Tweets using Focal Loss ([abstract](#))
- 16:45 [Aman Priyanshu](#), [Vedant Rishi Das](#), [Shashank Rajiv Moghe](#), [Harsh Rathod](#), [Sai Sravan Medicherla](#), [Mini Shail Chhabra](#) and [Sarthak Shastri](#)
Stance Classification with Improved Elementary Classifiers Using Lemmatization (Grand Challenge) ([abstract](#))
- 17:00 [Vineet Kumar](#), [Karthikeya Racharla](#) and [Debanriyo Majumdar](#)
Transfer Learning with Augmented Vocabulary for Tweet Classification ([abstract](#))
- 17:15 [Mohammed Azhan](#), [Mohammad Ahmad](#) and [Mohammed Sajjad Jafrri](#)
MeToo: Sentiment Analysis using Neural Networks ([abstract](#))

17:00-17:45 Session 17: BDMAS

BDMAS

CHAIR: [Prasenjeet Tribhuvan](#)

17:00 [Ritwik Mishra](#), [Aanshul Sadaria](#), [Shashank Srikanth](#), [Kanay Gupta](#), [Himanshu Bhatia](#), [Pratik Jain](#), [Ponnurangam Kumaraguru](#) and [Rajiv Ratn Shah](#)

Analyzing Traffic Violations through e-challan System in Metropolitan Cities ([abstract](#))

17:20 [Chetna Kuanr](#)

INFORMAL HUMAN SETTLEMENTS, BIG DATA AND SOCIAL THEORY IN MOROCCO ([abstract](#))

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