

Multimedia Evaluation Benchmark

MediaEval 2019
10th Anniversary Workshop
27-29 October 2019
EURECOM, Sophia Antipolis, France

Sunday 27 October

Workshop Kickoff

Location: Green 2.0 <https://www.greenpub-sophia.com>

Espace Saint-Philippe Avenue Roumanile 06410 Biot (near Nemea Appart'Hotel Green Side)

Registration 14:00-14:30
14:30-16:30 Experimental methodology icebreaker: Best Practices Bingo
16:30 Hike to Biot (weather permitting) or bus for those who would like not to hike.
18:45 Drinks and dinner Hôtel Restaurant les Arcades, 16 Place des Arcades, Biot (then, bus back to Green 2.0)

Monday 28 October

Location: EURECOM Room 151

9:00 - 09:10 Day 1 Opening

9:10 - 9:45 No-audio Multimodal Speech Detection

Session chair: Gareth Jones, Dublin City University (Ireland)

09:10 - 09:25	No Audio Multimodal speech Overview presentation	Laura-Cabrera Quiros, TU Eindhoven / TU Delft (Netherlands)
09:25 - 09:35	Multimodal Fusion of Appearance Features, Optical Flow and Accelerometer Data for Speech Detection	Andreadis Stelios, CERTH (Greece)
09:35 - 09:45	CNNs and Fisher Vectors for No-Audio Multimodal Speech Detection	Jose Vargas, TU Delft (Netherlands)

9:45 - 10:20 Eyes and Ears Together**Session chair: Gareth Jones, Dublin City University (Ireland)**

09:45 - 10:00	Eyes and Ears Together	Yasufumi Moriya, DCU (Ireland)
10:00 - 10:10	HCMUS at Eyes and Ears Together 2019: Entity Localization with Guided Word Embedding and Human Pose Estimation approach	Van-Tu Ninh and Tu-Khiem Le, DCU (Ireland) for HCMUS
10:10 - 10:20	DCU-ADAPT at MediaEval 2019: Eyes and Ears Together	Yasufumi Moriya, DCU (Ireland)

10:20 - 10:45 Coffee**10:45 - 11:30 GameStory: Video Game Analytics Challenge****Session chair: Duc Tien Dang-Nguyen, University of Bergen (Norway)**

10:45 - 11:00	GameStory Overview presentation	Mathias Lux, Klagenfurt University (Austria)
11:00 - 11:10	DCU-ADAPT at MediaEval 2019: GameStory	Yasufumi Moriya, DCU (Ireland)
11:10 - 11:20	Replay Detection and Multi-stream Synchronization in CS:GO Game Streams Using Content-based Image Retrieval and Image Signature Matching	Van Tu Ninh, DCU (Ireland)
11:20 - 11:30	Automated Replay Detection and Multi-Stream Synchronization	Mathias Lux (for Kevin Mekul), Klagenfurt University (Austria)

11:30 - 13:30 Lunch**Location:** Le Provençal Golf

Walk to the restaurant, located at 95. av. de Roumanille 06410 Biot-Sophia Antipolis

(There is a car available for any non-walkers among us.)

13:30 - 14:25 Pixel Privacy

Session chair: Benjamin Bischke, German Research Center for Artificial Intelligence GmbH & TU Kaiserslautern (Germany)

13:30 - 13:45	Pixel Privacy Overview Presentation	Zhuoran Liu, Radboud University (Netherlands)
13:45 - 13:55	Concealed FGSM Perturbations for Privacy Preservation	Panagiotis Linardos, Dublin City University (Ireland)
13:55 - 14:05	Maintaining Perceptual Faithfulness of Adversarial Image Examples by Leveraging Color Variance	Sam Sweere, Maastricht University (Netherlands)
14:05 - 14:15	Scene Category Protection with Back Propagation and Image Enhancement	Van Tu Ninh, Dublin City University (Ireland) for HCMUS
14:15 - 14:25	Adversarial Photo Frame: Concealing Sensitive Scene Information of Social Images in a User-Acceptable Manner	Zhengyu Zhao, Radboud University (Netherlands)

14:25 - 15:40 Predicting Media Memorability

Session chair: Ricardo Savii, Dafiti Group (Brazil)

14:25 - 14:40	Memorability Overview Presentation	Mihai Gabriel Constantin, UPB, (Romania)
14:40 - 14:50	Predicting Media Memorability Using Ensemble Models	Alan Smeaton, Dublin City University (Ireland)
14:50 - 15:00	Combining Textual and Visual Modeling for Predicting Media Memorability	Alison Reboud and Ismail Harrando, EURECOM (France)
15:00 - 15:10	GIBIS at MediaEval 2019: Predicting Media Memorability Task	Jurandy Almeida, Federal University of São Paulo (Brazil)
15:10 - 15:20	Multimodal Deep Features Fusion For Video Memorability Prediction	Roberto Leyva, University of Essex (United Kingdom)
15:20 - 15:30	Predicting Media Memorability Using Deep features with attention and recurrent network	Van Tu Ninh and Tu-Khiem Le, DCU (Ireland) for HCMUS
15:30 - 15:40	Using Aesthetics and Action Recognition-based Networks for the Prediction of Media Memorability	Mihai Gabriel Constantin, UPB, (Romania)

15:40 - 17:30 Coffee (Room 153) and breakout

Pixel Privacy	Room 150
Predicting Media Memorability	Room 151
No-audio Multimodal Speech Detection	Room 152
Eyes and Ears Together	Room 153
GameStory: Video Game Analytics Challenge	Room 154

17:30 - 17:55 Multimedia Recommender Systems**Session chair: Mathias Lux, Klagenfurt University (Austria)**

17:30 - 17:45	MMRecSys Overview Presentation	Benjamin Kille, TU Berlin (Germany)
17:45 - 17:55	A Regression Approach to Movie Rating Prediction Using Multimedia Content and Metadata	Hossein A. Rahmani, University of Lugano (Switzerland)

17:55 - 18:40 Medico Medical Multimedia**Session chair: Mathias Lux, Klagenfurt University (Austria)**

17:55 - 18:10	Medico Overview Presentation	Duc Tien Dang-Nguyen, University of Bergen (Norway)
18:10 - 18:20	Extracting temporal features into a spatial domain using autoencoders for sperm video analysis	Vajira Thambawita, SimulaMet (Norway)
18:20 - 18:30	Using 2D and 3D Convolutional Neural Networks to Predict Semen Quality	Jon-Magnus Rosenblad, Simula (Norway)
18:30 - 18:40	Using Deep Learning to Predict Motility and Morphology of Human Sperm	Steven Hicks, SimulaMet (Norway)

19:00 Drinks and Dinner**Location:** Green 2.0 <https://www.greenpub-sophia.com>

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Tuesday 29 October

Location: EURECOM Room 151

9:00 - 10:05 Insight for Wellbeing Task: Multimodal personal health lifelog data analysis

Session chair: Koji Zettsu, National Institute of Information and Communications Technology (Japan)

9:00 - 9:15	Insight for Wellbeing Overview Presentation	Minh-Son Dao, National Institute of Information and Communications Technology (Japan)
9:15 - 9:25	DCU team at The 2019 Insight for Wellbeing Task: Multimodal personal health lifelog data analysis	Tu-Khiem Le, Dublin City University (Ireland)
9:25 - 9:35	HCMUS at Insight for Wellbeing Task 2019: Multimodal Personal Health Lifelog Data Analysis with Inference from Multiple Sources and Attributes	Minh-Triet Tran, HCMUS (Vietnam) (Remote)
9:35 - 9:45	Predicting Missing Data by Using Multimodal Data Analytics	Loc Tai Tan Nguyen, University of Information Technology (Vietnam)
9:45 - 09:55	Leveraging Egocentric and Surrounding Environment Data to Adaptively Measure a Personal Air Quality Index	Minh-Tam Nguyen, University of Information Technology (Vietnam)
09:55 - 10:05	Healthism@MediaEval 2019 - Insights for Wellbeing Task: Factors related to Subjective and Objective Health	Xiaoyong Wei, Peng Cheng Lab (China)

10:05 - 10:15 Scene Change (Task Force)

Session chair: Gareth Jones, Dublin City University (Ireland)

10:05 - 10:15	Scene Change	Simon Brugman, Radboud University (Netherlands)
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10:15 - 10:45 Coffee (Room 153)

10:45 - 11:40 Emotion and Themes in Music using Jamendo**Session chair: Ekin Gedik, Delft University of Technology (Netherlands)**

10:45 - 11:00	Emotion and Themes Overview Presentation	Dmitry Bogdanov and Philip Tovstoga, Universitat Pompeu Fabra (Spain)
11:00 - 11:10	Emotion and Theme Recognition of Music Using Convolutional Neural Networks	Yi Shengzhou, The University of Tokyo (Japan)
11:10 - 11:20	Recognizing Song Mood and Theme Using Convolutional Recurrent Neural Networks	Maximilian Mayerl, Universität Innsbruck (Austria)
11:20 - 11:30	Emotion and Theme Recognition in Music with Frequency-Aware RF-Regularized CNNs	Shreyan Chowdhury, Johannes Kepler University (Austria)
11:30 - 11:40	Emotion and Themes Recognition in Music Utilising Convolutional and Recurrent Neural Networks	Shahin Amiriparian, University of Augsburg (Germany)

11:40 - 13:30 Lunch**13:30 - 14:05 Sport Video Classification Task: Table Tennis****Session chair: Minh-Son Dao, National Institute of Information and Communications Technology (Japan)**

13:30 - 13:45	Sports Videos Overview Presentation	Pierre-Etienne Martin, Univ. Bordeaux / LaBRI (France)
13:45 - 13:55	Optical Flow Singularities for Sports Video Annotation: Detection of Strokes in Table Tennis	Jordan Calandre, MIA Laboratory / University of La Rochelle (France)
13:55 - 14:05	Siamese Spatio-temporal convolutional neural network for stroke classification in Table Tennis games	Pierre-Etienne Martin, Univ. Bordeaux / LaBRI (France)

14:05 - 15:30 Multimedia Satellite Task: Flood Severity Estimation**Session chair: Zhengyu Zhao, Radboud University (Netherlands)**

14:05 - 14:20	Multimedia Satellite Task Overview Presentation	Benjamin Bischke, German Research Center for Artificial Intelligence GmbH / TUK (Germany)
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14:20 - 14:30	Transfer Learning and Mixed Input Deep Neural Networks for Estimating Flood Severity in News Content	Pierrick Bruneau, Luxembourg Institute of Science and Technology (Luxembourg)
14:30 - 14:40	Estimation of Flood Level from Social Media Images	Muntaha Sakeena, University of Applied Sciences St. Pölten (Austria)
14:40 - 14:50	Multimedia Analysis Techniques for Flood Detection Using Images, Articles and Satellite Imagery	Stelios Andreadis, CERTH (Greece)
14:50 - 15:00	Flood level estimation from news articles and flood detection from satellite image sequences	Yu Feng, Leibniz University Hannover (Germany)
15:00 - 15:10	Flood Event Analysis based on Pose Estimation and Water-related Scene Recognition	Tu-Khiem Le, Dublin City University (Ireland)
15:10 - 15:20	AI-based flood event understanding and quantifying using online media and satellite data	Alessandro Farasin, Politecnico di Torino (Italy)
15:20 - 15:30	Flood Severity Estimation from Online News Images and Multi-Temporal Satellite Images using Deep Neural Networks	Benjamin Bischke, German Research Center for Artificial Intelligence GmbH / TUK (Germany)

15:30 - 17:30 Coffee (Room 153) and breakout

Emotion and Themes in Music	Room 150
Multimedia Satellite Task	Room 151
Sport Video Classification	Room 152
Medico	Room 153
Insight for Wellbeing Task	Room 154

17:30 - 18:00 MediaEval Distinctive mentions and closing

Wednesday 30 October
Bonus Day

9:00 - 10:00

9:00 - 9:15	Present your projects on flooding and/or disaster management.	Benjamin Bischke, German Research Center for Artificial Intelligence GmbH & TUK (Germany)
9:15 - 9:30	Present your projects on flooding and/or disaster management.	Pierrick Bruneau, Luxembourg Institute of Science and Technology (Luxembourg)
9:30 - 9:45	Present your projects on flooding and/or disaster management.	Alessandro Farasin, Politecnico di Torino (Italy)
9:45 - 10:00	Present your projects on flooding and/or disaster management.	Yu Feng, Leibniz University Hannover (Germany)

10:00-12:00

Organizers meeting: Recap of this year and presentation of plans for next year.

In parallel: MMSat Work session

Recap of this year and presentation of plans for next year.	MMSat Work Session (planning)	
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12:00-14:00 Lunch

14:00-15:00

Organizers meeting: Moving forward with Evaluation Methodology

In parallel: MMSat Work session