

# 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>

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

**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)
---------------	--------------	---

**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)
---------------	---	---

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)	
---	-------------------------------	--

**12:00-14:00 Lunch**

**14:00-15:00**

**Organizers meeting:** Moving forward with Evaluation Methodology

In parallel: MMSat Work session