

ACM multimedia



MeMAD

Methods for Managing  
Audiovisual Data



ReTV

Re-Inventing TV for  
the Interactive Age



COMCAST

# AI4TV 2020 Workshop

<https://memad.eu/ai4tv2020/> - #ai4tv

October 12, 2020

# Organizers



**Raphael Troncy**  
Assistant Professor,  
EURECOM



**Jorma Laaksonen**  
Aalto University



**Hamed R. Tavakoli**  
Nokia Technologies



**Lyndon Nixon**  
MODUL Technology



**Vasileios Mezaris**  
CERTH-ITI



**Mohammad Hosseini**  
Comcast

# Workshop Topics: *AI Technologies for TV Content*

- Multimodal content analysis: scene segmentation, person recognition, object detection, speaker gender recognition, speaker diarization, topic identification
- Multimodal embeddings for multimedia (audio, visual, text, knowledge graph)
- Automatic multimedia summarization
- Automatic deep captioning and content description
- Interactive multimodal search in archives
- Hyperlinking and enrichment of TV content
- Anomaly and violation detection in TV media contents
- Automated TV content and camera compliance
- Media-rich fake news detection
- Breaking the language barrier of TV content using multimodal translation
- Gender studies on TV and radio programs

# Workshop Program (Time in ET, UTC-4)

- 08:00-08:15: *Welcome by the chairs*
- 08:15-09:00: **Keynote Talk**  
*AI in the Media Spotlight* - Alexandre Rouxel  
(EBU, Switzerland).
- 09:00-09:20: Lyndon Nixon – *Predicting your future audience's popular topics to optimize TV content marketing success*
- 09:20-09:40: Syeda Maryam Fatima Taqvi – *Neural Style Transfer Based Voice Mimicking for Personalized Audio Stories*
- 09:40-10:00: Konstantinos Apostolidis – *Video Analysis for Interactive Story Creation: The Sandmännchen Showcase*
- 10:00-10:15: Coffee break



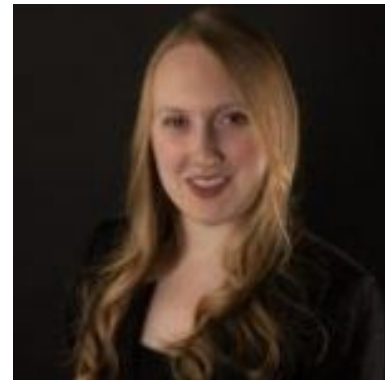
# Workshop Program (Time in ET, UTC-4)

- 10:15-11:00: **Keynote Talk**

*And, Action! Towards Leveraging Multimodal Patterns for Storytelling and Content Analysis* - Natalie Parde

(University of Illinois at Chicago, USA)

- 11:00-11:20: Dejan Porjazovski – *Named Entity Recognition for Spoken Finnish*
- 11:20-11:40: Niranjan Pedanekar – *Avoid Crowding in the Battlefield: Semantic Placement of Social Messages in Entertainment Programs*
- 11:40-12:00: Vishal Kaushal – *Realistic Video Summarization through VISIOCITY: A New Benchmark and Evaluation Framework*
- 12:00-12:15 *Wrap up, Next steps and Closing* by all workshop participants



# Keynote Talk: Alexandre Rouxel (EBU, Switzerland)

- **“AI in the Media Spotlight”**

Alexandre Rouxel is a Data Scientist and Project Coordinator at the EBU in the Technology and Innovation department. At the EBU, he is coordinating projects on metadata, cloud computing and machine learning for media applications. Before joining the EBU, he cumulated 20 years' experience as algorithms and systems design engineer acquired within successful Nasdaq listed companies. He has extensive experience in developing standards and innovative products from research to market. He is data enthusiast, eager at designing and promoting efficient algorithms and systems for extracting and valorising information from massive amounts of data.



## **Keynote Talk: Prof. Natalie Parde (University of Illinois at Chicago, USA)**

- **“And, Action! Towards Leveraging Multimodal Patterns for Storytelling and Content Analysis”**

Natalie Parde is an Assistant Professor in the Department of Computer Science at the University of Illinois at Chicago, where she also co-directs UIC’s Natural Language Processing Laboratory. Her research interests are in natural language processing, with emphasis in interactive systems, multimodality, creative language, and grounded language learning. She serves on the program committees of EMNLP, the Association for Computational Linguistics (ACL), and the North American Chapter of the ACL (NAACL), among other conferences and workshops, and as a review panelist for the National Science Foundation. In her spare time, Dr. Parde enjoys engaging in mentorship and outreach for underrepresented CS students.

