

## Affective Signals SS 2021 - Outline

Nr.	Date	Topic	Perspective	Papers for presentation
1	15.04.2021	Course Introduction: Topics & Requirements		
2	22.04.2021	Preparation for Hands-On-Sessions and Theoretical Overview		
3	29.04.2021	Facial Expressions I	Psychology - Teaser Technical Background	<i>OpenFace 2.0: Facial Behavior Analysis Toolkit</i>
4	06.05.2021	Facial Expressions II	Implementation: Hands-on Application	<i>Deep learning-based classification of posttraumatic stress disorder and depression following trauma utilizing visual and auditory markers of arousal and mood</i>
	13.05.2021	HOLIDAY		
5	20.05.2021	Eyes I	Psychology - Teaser Technical Background	<i>Rendering of eyes for eye-shape registration and gaze estimation.</i>
6	27.05.2021	Eyes II	Implementation: Hands-on Application	<i>DeepVision: Deepfakes Detection Using Human Eye Blinking Pattern</i>
	03.06.2021	HOLIDAY		
7	10.06.2021	Voice I	Psychology - Teaser Technical Background	<i>openSMILE – The Munich Versatile and Fast Open-Source Audio Feature Extractor</i>
8	17.06.2021	Voice II	Implementation: Hands-on Application	<i>Using Speech to Predict Sequentially Measured Cortisol Levels During a Trier Social Stress Test</i>
9	24.06.2021	Heart Beat I	Psychology - Teaser Technical Background	<i>Using Contactless Heart Rate Measurements for Real-Time Assessment of Affective States (starting from page 158)</i>
10	01.07.2021	Heart Beat II	Implementation: Hands-on Application	<i>Automatic human stress detection based on webcam photoplethysmographic signals</i>
11	08.07.2021	Breathing	Psychology - Teaser Technical Background	<i>Respiratory Rate Estimation from Face Videos</i>
12	15.07.2021	Breathing II	Implementation: Hands-on Application	<i>Non-contact monitoring of respiration in the neonatal intensive care unit</i>
13	22.07.	Biases (Cultural & Gen	Psychology - Teaser Technical Paper I Technical Paper II	<i>Investigating Bias and Fairness in Facial Expression Recognition</i> <i>Gender de-biasing in speech emotion recognition</i>