

# CVAUI 2020

**4<sup>th</sup> Workshop on Computer Vision for Analysis of Underwater Imagery**

10<sup>th</sup> January, 2021. Milan, Italy



**Sunday 10 January 2021 - Sunday 10 January 2021**

## Program

CVAUI 2020 Program  
4th Workshop on Computer Vision for Analysis of Underwater Imagery  
10 January 2021  
**All times are given in CET**

A downloadable program is available [here](#).

14:00-14:15 | Introduction | Maia Hoeberechts & Alexandra Branzan Albu  
14:15-15:15 | Invited talk | *Working with Robots at Depth* | Micheal Jenkin

15:15-15:20 | Break

**Technical talks: Underwater Robotics**

15:20-15:40 | *Deep Sea Robotic Imaging Simulator* | Yifan Song, David Nakath, Mengkun She, Furkan Elibol, and Kevin Köser  
15:40-16:00 | *Optimization of Multi-LED Setups for Underwater Robotic Vision Systems* | Yifan Song, Jan Sticklus, David Nakath, Emanuel Wenzlaff, Reinhard Koch, and Kevin Köser  
16:00-16:20 | *Learning Visual Free Space Detection for Deep-Diving Robots* | Nikhitha Shivaswamy, Tom Kwasnitschka, and Kevin Köser

16:20-16:25 | Break

**Technical talks: Underwater Image Enhancement**

16:25-16:45 Removal of Floating Particles from Underwater Images Using Image Transformation Networks Lei Li, Takashi Komuro, Koichiro Enomoto, and Masashi Toda

**Technical talks: Species Classification and Enumeration**

16:45-17:05 | *Video-based Hierarchical Species Classification for Longline Fishing Monitoring* | Jie Mei, Jenq-Neng Hwang, Suzanne Romain, Craig Rose, Braden Moore, and Kelsey Magrane  
17:05-17:25 | *Robust Fish Enumeration by Multiple Object Tracking in Overhead Videos* | Hung-Min Hsu, Ziyi Xie, Jenq-Neng Hwang, and Andrew Berdahl

17:25-17:30 | Closing Remarks | Maia Hoeberechts & Alexandra Branzan Albu