

CVAUI 2020

4th Workshop on Computer Vision for Analysis of Underwater Imagery

10th January, 2021. Milan, Italy



Sunday 10 January 2021 - Sunday 10 January 2021

Program

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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