

**W34 – 1st Workshop on Interactive and
Adaptive Learning in an Open World**

W34 – 1st Workshop on Interactive and Adaptive Learning in an Open World

When applying learning algorithms to real-world problems, limitations are often related to the lack of representative, non-changing, annotated data rather than sophisticated models and algorithms. To overcome these barriers, the annotation and learning of models needs to be coupled strongly through human-machine interaction. Furthermore, models need to adapt as needed to handle either shifts or completely novel data. The goal of this workshop was to discuss and present the advances in technologies that support annotation, model learning through expert guidance, and continuous model adaptation.

The interactive and adaptive learning (IAL) workshop tried to bridge one of the gaps between results of basic AI research and their real-world applicability - availability of useful and easy-to-produce annotations and working solutions for efficient model adaptation. Hence, the workshop focused on exchange on the following topics: continuous and lifelong learning, interactive segmentation and detection to support annotation, active learning, and open set learning.

We had five invited speakers covering a broad spectrum of topics related to interactive and adaptive learning in an open world. In addition, we invited extended abstract submissions related to the workshop scope, from which we accepted ten abstracts for poster presentation.

The workshop successfully served as a venue for exchanging recent trends in the field of interactive and adaptive learning in an open world. The combination of invited speakers covering a broad technical spectrum as well as a short and informal poster session allowed for detailed discussions and for fostering connections. The audience raised the strong interest in continuing the workshop within the next years.

September 2018

Alexander Freytag
Vittorio Ferrari
Mario Fritz
Uwe Franke
Terrence Boulton
Juergen Gall
Walter Scheirer
Angela Yao
Erik Rodner