



ImageCLEF 2018

CLEF, 10-14 September, Avignon, France

<http://www.imageclef.org/2018>

Call for Participation

ImageCLEF 2018 is an evaluation campaign that is being organized as part of the CLEF initiative labs.

The campaign offers several research tasks that welcome participation from teams around the world.

The results of the campaign appear in the working notes proceedings, published by CEUR Workshop Proceedings (CEUR-WS.org) and are presented in the CLEF workshop.

Selected contributions among the participants will be invited for publication in the following year in the Springer Lecture Notes in Computer Science (LNCS) together with the annual lab overviews.

Target communities involve (but are not limited to):

- information retrieval (text, vision, audio, multimedia, social media, sensor data, etc.)
- machine learning, deep learning
- data mining
- natural language processing
- image and video processing
- computer vision
- question answering

Overall coordination

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Contact

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<https://www.facebook.com/ImageClef>

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ImageCLEFlifelog: The availability of a large variety of personal devices, e.g., smartphones, video cameras as well as wearable devices that allow capturing pictures, and videos in every moment of our life is creating the need for systems that can automatically categorize, summarize and retrieve these data. The task addresses the problems of lifelogging data understanding, summarization and retrieval.

Organizers: Duc-Tien Dang-Nguyen (*Dublin City University*), Luca Piras (*University of Cagliari*), Michael Riegler (*University of Oslo*), Liting Zhou (*Dublin City University*), Cathal Gurrin (*Dublin City University*), Mathias Lux (*Klagenfurt University*).

ImageCLEFcaption: Interpreting and summarizing the insights gained from medical images such as radiology output is a time-consuming task. As a consequence, there is a considerable need for automatic methods that can approximate this mapping from visual information to condensed textual descriptions. The task addresses the problem of bio-medical image concept detection and caption prediction from large training data.

Organizers: Carsten Eickhoff (*ETH Zurich*), Alba García Seco de Herrera (*University of Essex*), Henning Müller (*HES-SO*)

ImageCLEFtuberculosis: The task is to provide tuberculosis severity score based on the automatic analysis of lung CT images of patients. Extracting this information from images allows to limit lung washing and laboratory analyses to determine the tuberculosis type and drug resistances, thus reduce use of antibiotics and lower impact on the patient.

Organizers: Vassili Kovalev (*Institute for Informatics Minsk*), Henning Müller (*HES-SO*), Vitali Liauchuk (*Institute for Informatics Minsk*).

ImageCLEF-VQA-Med: With the increasing access to electronic medical records, patients can now review reports associated with their healthcare utilization. Such access can help them better understand their conditions. Given a medical image accompanied with a set of clinically relevant questions, participating systems are tasked with answering the questions based on the visual image content.

Organizers: Sadid Hasan (*Philips Research Cambridge*), Yuan Ling (*Philips Research Cambridge*), Oladimeji Farri (*Philips Research Cambridge*), Henning Müller (*HES-SO*), Matthew Lungren (*Stanford University Medical Center*)

Important dates (may vary depending on the task)

Task registration opens: **November 8, 2017**

Run submission: **May 1, 2018**

Working notes submission: **May 31, 2018**

CLEF long paper submission: **May 7, 2018**

CLEF short paper submission: **May 14, 2018**

CLEF 2018 conference: **September 10-14, Avignon, France**

