Active large-scale learning for visual recognition

Fact Sheet

Project Information

ALLEGRO

Grant agreement ID: 320559

Project closed

Start date
1 April 2013

End date
31 March 2019

Funded under
Specific programme: "Ideas" implementing the Seventh Framework Programme of the European Community for research, technological development and demonstration activities (2007 to 2013)

Total cost
€ 2 493 322,00

EU contribution
€ 2 493 322,00

Coordinated by
INSTITUT NATIONAL DE RECHERCHE EN INFORMATIQUE ET AUTOMATIQUE
France

Objective

A massive and ever growing amount of digital image and video content is available today, on sites such as
Flickr and YouTube, in audiovisual archives such as those of BBC and INA, and in personal collections. In most cases, it comes with

additional information, such as text, audio or other metadata, that forms a rather sparse and noisy, yet rich and diverse source of annotation, ideally suited to emerging weakly supervised and active machine learning technology. The ALLEGRO project will take visual recognition to the next level by using this largely untapped source of data to automatically learn visual models. The main research objective of our project is the development of new algorithms and computer software capable of autonomously exploring evolving data collections, selecting the relevant information, and determining the visual models most appropriate for different object, scene, and activity categories. An emphasis will be put on learning visual models from video, a particularly rich source of information, and on the representation of human activities, one of today's most challenging problems in computer vision. Although this project addresses fundamental research issues, it is expected to result in significant advances in high-impact applications that range from visual mining of the Web and automated annotation and organization of family photo and video albums to large-scale information retrieval in television archives.

Fields of science (EuroSciVoc)

social sciences > media and communications > **graphic design**

natural sciences > computer and information sciences > **software**

natural sciences > computer and information sciences > artificial intelligence > **computer vision**

natural sciences > computer and information sciences > artificial intelligence > **machine learning**

Programme(s)

FP7-IDEAS-ERC - Specific programme: "Ideas" implementing the Seventh Framework Programme of the European Community for research, technological development and demonstration activities (2007 to 2013)

Topic(s)

ERC-AG-PE6 - ERC Advanced Grant - Computer science and informatics

Call for proposal

ERC-2012-ADG_20120216
See other projects for this call

Funding Scheme

ERC-AG - ERC Advanced Grant

Host institution

INSTITUT NATIONAL DE RECHERCHE EN INFORMATIQUE ET AUTOMATIQUE

EU contribution

€ 2 493 322,00

Total cost

No data

Address

DOMAINE DE VOLUCEAU ROCQUENCOURT
78153 Le Chesnay Cedex
France

Activity type

Research Organisations

Principal investigator

Cordelia Schmid (Dr.)

Links

Contact the organisation Website
Participation in EU R&I programmes
HORIZON collaboration network

Beneficiaries (1)

INSTITUT NATIONAL DE RECHERCHE EN INFORMATIQUE ET AUTOMATIQUE

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Last update: 5 April 2023

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