

Yannis Kalantidis

Education

- 2009–2014 **Ph.D. in Computer Science**, *School of Electrical and Computer Engineering*, National Technical University of Athens, Greece.
2002–2009 **Diploma/M.Eng. in Electrical and Computer Engineering**, National Technical University of Athens, Athens, Greece.

Working Experience

- Feb 2017 – Present **Research Scientist**, *Facebook AI*, Menlo Park, CA,
Research and development on video representations, web-scale learning, visual relationship detection, multi-modal learning.
Jan 2015 – Dec 2016 **Research Scientist**, *Yahoo Research*, San Francisco, CA,
(2 years) Research and development on web-scale visual search, classification from noisy data, video representation, adversarial & unsupervised learning. Collaborated with Stanford on the Visual Genome project [IJCV, 2016] (<https://visualgenome.org/>).

Scientific Publication, Patent & Citation Records

- Publications Papers published in CVPR, ICCV, ECCV, IJCV, CVIU, ACM MM, ICMR, WSDM, CHI and other.
Citations Google Scholar citations: **1118 citations**, **h-index: 13**, **i10-index: 15** (July 2018)
Patents 2 US Patents, 4 US Patent Applications & 2 Defensive Publications.

Selected Recent Publications

- Y. Kalantidis** and Y. Avrithis. *Locally Optimized Product Quantization for Approximate Nearest Neighbor Search*. CVPR, 2014.
Y. Avrithis, **Y. Kalantidis**, E. Anagnostopoulos and I. Z. Emiris. *Web-scale image clustering revisited*. ICCV (oral), 2015.
Y. Kalantidis, C. Mellina and S. Osindero. *Cross-dimensional Weighting for Aggregated Deep Convolutional Features*. ECCV VSM Workshop, 2016.
Y. Kalantidis, A. Farahat, L. Kennedy, R. Baeza-Yates and D.A. Shamma. *Visual Congruent Ads for Image Search*. ICPR, 2016.
Y. Kalantidis, L. Kennedy, H. Nguyen, C. Mellina and D.A. Shamma. *LOH and behold: Web-scale visual search, recommendation and clustering using Locally Optimized Hashing*. ECCV VSM Workshop, 2016.
R. Krishna, ..., **Y. Kalantidis et al.** *Visual Genome: Connecting Language and Vision Using Crowdsourced Annotations*. IJCV 2017.
P. Garrigues, S. Farfadi, H. Izadinia, K. Boakye and **Y. Kalantidis**. *Tag Prediction at Flickr: a View from the Darkroom*. NIPS LSCV Workshop, 2016 (**Best paper award**).
L. Jiang, **Y. Kalantidis**, L. Cao, S. Farfadi, J. Tang and A. Hauptmann. *Delving Deep into Personal Photo & Video Search*. WSDM, 2017.
S. Chancellor, **Y. Kalantidis**, J.A. Pater, M. De Choudhury, D.A. Shamma *Multimodal Classification of Moderated Online Pro-Eating Disorder Content*, CHI, 2017.
L. Jiang, L. Cao, **Y. Kalantidis**, S. Farfadi and A. Hauptmann. *MemexQA: Visual Memex Question Answering*. ArXiv, 2017.
J. Zhang, **Y. Kalantidis**, M. Rohrbach, M. Paluri A. Elgammal, M. Elhoseiny. *Large-Scale Visual Relationship Understanding*. ArXiv, 2018.
Y. Chen, **Y. Kalantidis**, J. Li, Y. Shuicheng, J. Feng. *Multi-Fiber Networks*. ECCV, 2018.

Research Interests

- Computer Approximate nearest neighbor search [LOPQ, CVPR 2014]
Vision Web-scale clustering [AGM, ECCV 2012] [IQ-Means, ICCV 2015]
& Aggregated Deep Convolutional Features [Crow, ECCV-W 2016]
Deep Deep embeddings for Personal Media Search [WSDM 2017, AAAI 2017]
Learning Distributed hashing and visual recommendations [LOH, ECCV-W 2016]
Clothing segmentation, recognition and classification [CsCR, ICMR 2013]
Question answering for personal media search [MemexQA, Arxiv 2017]
Web-scale Visual Relationship Detection [Arxiv 2018]
Fast Spatio-temporal Video Representations [Multi-Fiber Net, ECCV 2018]

Development projects

- VIRaL Principal developer in the Visual Image Retrieval and Localization tool (On-line demo: <http://viral.image.ntua.gr>).
LOPQ Principal developer in the open source code for Locally Optimized Product Quantization (Available on Yahoo's github: <https://github.com/yahoo/lopq>).
Crow Principal developer in the open source code for Cross-dimensional feature Weighting for convolutional features (Available on Yahoo's github: <https://github.com/yahoo/crow>).

Programming skills

- Programming Python, C/C++, familiar with Spark, Caffe2, Tensorflow, pyTorch.