

Description of the Workshop

The goal of the second DeepVision Workshop is to accelerate the study of deep learning algorithms in computer vision problems. With the increase of acceleration of digital photography and the advances in storage devices over the last decade, we have seen explosive growth in the available amount of visual data and equally explosive growth in the computational capacities for image understanding. Instead of hand crafting features, recent advancement in deep learning suggests an emerging approach to extracting useful representations for many computer vision tasks.

We encourage researchers to formulate innovative learning theories, feature representations, and end-to-end vision systems based on deep learning. We also encourage new theories and processes for dealing with large scale image datasets through deep learning architectures. We are soliciting original contributions that address a wide range of theoretical and practical issues including, but not limited to:

- Large scale image and video understanding with deep models.
 - Video classification
 - Object recognition
 - Object tracking
 - Scene understanding
 - Industrial and medical applications
- Supervised learning in computer vision.
- Unsupervised feature learning and feature selection.
- Midlevel representations with deep learning.
- Learning with limited data, trends and training strategies.
- Deep learning hardware architectures.
- Deep learning in mobile platforms and embedded systems.
- Advancements in deep learning.
- Domain transfer using deep architectures.
- Real time applications.

Organizing Committee

J. Alvarez, **NICTA**, Australia
Y. LeCun, **Facebook AI**, **NYU**, USA
F. Porikli, **ANU/NICTA**, Australia
Yi Li, **Toyota Research Inst. North Am.**, USA

Program Committee (tentative)

Andrej Karpathy, **Stanford University**, USA
Ming Yang, **Northwestern University**, USA
Viren Jain, **Janelia Farm Research Campus**, USA
Xigang Wang, **The Chinese University of Hong Kong**
Hubert Cecotti, **University of California**, USA
Angjoo Kanazawa, **University of Maryland**, USA
Christian Wolf, **Université de Lyon**, France
Pierre Sermanet, **Google**, USA
Michael Pfeiffer, **ETH Zurich**, Switzerland
David Jacobs, **University of Maryland**, USA
Adrew Bagdanov, **Computer Vision Center**, Spain
Joost van de Weijer, **Computer Vision Center**, Spain
Kevin Duh, **Nara Inst. of Science and Tech.** Japan
Sven Behnke, **University of Bonn**, Germany
Andreas Muller, **University of Bonn**, Germany
Fang Wang, **NICTA**, Australia
Gary B. Huang, **University of Massachusetts**, USA
Dan C. Ciresan, **Idisia**, Switzerland
Carlo Gatta, **Computer Vision Center**, Spain
Adriana Romero, **Computer Vision Center**, Spain
David Eigen, **NYU**, USA
Graham Taylor, **University of Guelph**, Canada
Ross Girshick, **Microsoft Research**, USA

Invited Speakers

Matthew Zeiler, **Clarifai**, USA
Graham Taylor, **Univ. Guelph**, Canada
Cees Snoek, **Univ. Amsterdam**, Netherlands
Anton van den Hengel, **Univ. Adelaide**, Australia
Miguel A. Carreria Perpignan, **UC. Merced**, USA
Andrej Karpathy, **Stanford**, USA

Important Dates

Submission deadline:	March 14th
Notification of acceptance:	April 1st
Camera-ready deadline:	May 2nd
Workshop:	July 1st

Contact

Jose M. Alvarez
jose.alvarez@nicta.com.au
NICTA, CRL, 7 London Circuit, Tower A, level 2
Canberra, ACT, 2601 Australia