Phong D. Vo

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.EDU

Telecom ParisTech
PhD of Signal & Images
Grad. Mar'14 | Paris, France

University of Science
MSc of Computer Science
Grad. Sep'09 | HCMC, Vietnam

BSc of Computer Science
Grad. Sep'07 | HCMC, Vietnam

/*SKILLS*/

Languages
Python • C • C++ • Matlab • Java • Bash • JavaScript • HTML

Tools
Scikit-learn • NumPy • Scipy • OpenCV • Caffe • Android • Node.JS • Angular.JS • CUDA BLAS

Speak & Write
Proficient English • Debutante French

Teamworking
Cooperative • Open-minded • Was in charge of a research group in HCMUS and advised undergraduate projects, which resulted in some publications.

__BACKGROUND__

Maths
Calculus • Probability • Linear Algebra • Optimization

Machine Learning
Deep Neural Networks
Kernel Methods & SVM
Semi-supervised Learning
Transductive Learning
Domain Adaptation
Sparse Coding
Manifold Learning

Computer Vision
Object Classification
Scene Understanding
Image Segmentation
Image Search

DIY@HOME

Robotics & Control
Raspberry Pi & Arduino

+EXPS

Postdoctoral Engineer — Apr'14 – Apr'16
CEA LIST, Paris, France
- Deep convolutional neural networks for representation learning.
- Representation learning under conditions of noise and lack of label.
- Sparse semantic features for efficient image retrieval.

Christ·era Project MUCKE — Apr'14 – Dec'15
CEA LIST & TUWien & Bilkent & AI.I.Cuza
A collaboration between 4 institutes. Project's goal: novel and reliable knowledge extraction models designed for multilingual and multimodal data shared on social networks. I am responsible of visual data representation.

PhD — Oct'10 – Mar'14
Telecom ParisTech, France
Kernel methods are powerful but require careful parameter tuning. Supervised by Prof. Hichem Sahbi, we learnt kernel maps directly from data.
- Kernel Map Learning: learn feature maps from unlabeled & labeled data.
- Regularized kernel learning: induces semantic regularization into kernel inference.
- Manifold learning for data visualization & interactive search with relevance feedback.

CNES Projects VENISE — Oct'10 – Jul'12
CNES & Telecom ParisTech, France
Navigating huge satellite images with mouse and eyes becomes too tired. We aimed to provide an alternative semantic view of image content, which may improve data perception.
- Design algorithm to index satellite images for semantic search.
- Open source development a powerful toolkit for 3D visualization.

Internship — Feb'09 – Aug'09
National Institute of Informatics, Tokyo, Japan
I join the multimedia lab of Prof. Shin'ichi Satoh and tackle TRECVid challenge with activity recognition, tracking, and detection with hundreds hours of surveillance videos.

Teaching — Jan'07 – Sep'10
University of Science (HCMUS), Vietnam
I was a teaching assistant and then lecturer for some courses data structures, artificial intelligence, computer graphics, algorithms.

.:PUBS

arXiV	*On Deep Representation Learning from Noisy Web Images	2015
CBMI	*Effective Training of Convolutional Networks using Noisy Web Images	2015
MM	Large-scale Image Mining with Flickr Groups	2015
ICIP	*Modeling Label Dependency in Kernel Learning for Image Annotation	2014
SIGIR	*Spacious: An Interactive Mental Search Interface	2013
IGARSS	*Semantic Subspace Learning for Mental Search in Satellite Images	2013
ICCSA	Combining Deconvolutional Features and SIFT in Image Classification	2013
BMVC	*Transductive Kernel Map Learning & Application to Image Annotation	2012
ICIP	*Transductive Inference & Kernel Design for Object Class Segmentation	2012
KSE	Improved HOG Descriptors	2011
IMECS	Image Segmentation Incorporating Photometric & Geometric Information	2011
RIVF	Combining Color and Texture for Interactive Segmentation	2010
RIVF	GPU Implementation of Extended GMM for Background Subtraction	2010
KSE	Detecting probable regions of human in still images using raw edges	2009
RIVF	*On Evaluating Sport Event Recognition using Bag-of-Words Model	2009
RIVF	*Dental Radiographs Segmentation Based on Anatomy	2008