D. Khuê Lê-Huu

PhD Candidate
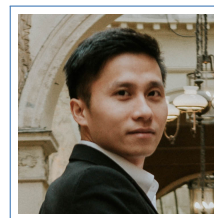
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Education

2014–present **PhD in Applied Mathematics and Computer Science**, *CentraleSupélec*, France.
Thesis: Graphical Models for Computer Vision. *Advisor:* Prof. Nikos Paragios.

2013–2014 **MSc in Applied Mathematics: Vision and Learning**, *CentraleSupélec*, France.

2011–2012 **MSc in Computer Science**, *École Polytechnique de Tours*, France.

2007–2012 **Engineer's Degree**, *INSA Centre Val de Loire*, France.
Major: Automated Systems, Instrumentations and Industrial Computing.

2004–2007 **Specialized Class in Mathematics**, *Quôc–Hoc Huê High School*, Vietnam.

Publications

[1] D. Khuê Lê-Huu and Nikos Paragios. Tight Non-convex Relaxation of MAP Inference. *Under review*, 2017.

[2] D. Khuê Lê-Huu and Nikos Paragios. Alternating Direction Graph Matching. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2017.

[3] D. Khuê Lê-Huu and Nikos Paragios. Dual Decomposition with Accelerated First-Order Scheme for Discrete Markov Random Field Optimization. *Technical report*, 2014.

[4] D. Khuê Lê-Huu, Fareed Ahmed, Julien Olivier, Romuald Boné. An active contour model with improved shape priors using Fourier descriptors. In *Proceedings of the International Conference on Computer Vision Theory and Applications (VISAPP)*, 2013.

Skills

Programming   C, C++, Python, Matlab, Java, VBA, LabVIEW.

Libraries   Eigen, OpenCV, OpenGM, LibSVM, SVMLight, CVX, VLFeat, IMAGINE++, Middlebury MRF, maxflow, ITK, SMIL, CGAL Linear and Quadratic Programming Solver.

Frameworks   Qt, Windows API, Microsoft MFC.

Languages   Vietnamese (native), English (fluent), French (fluent).

Others   LATEX, Web Design and Administration (CSS, HTML, Joomla!, Wordpress, phpBB).

Work Experience

07–09/2017 **Visiting Researcher**, *Computer Vision Laboratory*, Stony Brook University, USA.
● *Project:* Deep Structured Learning for Shape Matching and Histopathology Image Classification. ● *Supervisor:* Prof. Dimitris Samaras.

04–09/2014 **MSc Internship in Applied Mathematics**, *Center for Visual Computing*, Centrale-Supélec, France.
● *Project:* Dual Decomposition with Accelerated First-Order Scheme for Discrete Markov Random Field Optimization. ● *Advisor:* Prof. Nikos Paragios.

03–08/2012 **MSc Internship in Computer Science**, *Pattern Recognition and Image Analysis Group*, Computer Science Lab, Tours University, France.
● *Project:* An Active Contour Model with Improved Shape Priors using Fourier Descriptors.
● *Advisors:* Prof. Romuald Boné and Prof. Julien Olivier.

04–08/2011 **Internship in Computational Fluid Dynamics**, *Center for Innovation through Visualization and Simulation*, Purdue University Northwest, USA.
● *Project:* Modeling of An Internal Floating Roof Tank. ● *Advisor:* Prof. Chenn Q. Zhou.

06–08/2010 **Internship in Acoustics and Materials**, *GREMAN Lab*, CNRS, France.
● *Project:* An Implementation of Nonlinear Elastic Wave Spectroscopy Techniques to Discern Material Damage. ● *Advisors:* Prof. Marc Lethiecq and Prof. Jérôme Fortineau.

Honors & Awards

2008–2011 Vallet Scholarship for Excellent Vietnamese Students in France.

2007 Honorable Mention (top 40), Vietnam Mathematical Olympiad.

2007 First Prize (ranked 1st), Mathematical Olympiad of Thua Thiên – Huê province, Vietnam.

2006 Silver Medal, Mathematical Olympiad for High School Students of the Center and the South, Vietnam.

Interests

Sports I love playing and watching football. I play for CentraleSupélec's football team in the French university championship. I also like chess, table tennis and swimming.

Community I am an administrator of the biggest online mathematical community of Vietnam – the Vietnam Mathematics Forum (`diendantoanhoc.net`). I also spend my free time answering questions on Math StackExchange website, mostly on Olympiad Inequalities.

Reference

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