D. Khuê Lê-Huu
PhD Candidate

Center for Visual Computing
CentraleSupélec, France
+33 6 66 67 84 70
khue.le@centralesupelec.fr
www.khue.fr
khuele89
netw0rkf10w

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, Minh Hoai Nguyen, Dimitris Samaras and Nikos Paragios. Dealing with Large Transformations in Data Augmentation for Neural Networks. *In preparation*, 2017.

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

[3] 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.

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

[5] 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, PyTorch, OpenGM, CVX, VLFeat, IMAGINE++, Qt.
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:* Training Neural Networks with Noisy Data: A Multiobjective Optmization Perspective. • *Supervisors:* Prof. Minh Hoai Nguyen and 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

Nikos Paragios
Professor of Applied Mathematics
Director of the Center for Visual Computing, CentraleSupélec, France
✉ nikos.paragios@centralesupelec.fr
☎ +33 1 41 13 17 85