

# D. Khuê Lê-Huu

*PhD Candidate*

Center for Visual Computing  
CentraleSupélec, France

✉ [khue.le@centralesupelec.fr](mailto:khue.le@centralesupelec.fr)

🌐 [www.khue.fr](http://www.khue.fr)

in [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**, Quốc-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 L<sup>A</sup>T<sub>E</sub>X, Web Design and Administration (CSS, HTML, Joomla!, Wordpress, phpBB).

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## 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.

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## Honors & Awards

- 2008–2011 Vallet Scholarship for Excellent Vietnamese Students in France.
- 2007 Honorable Mention (top 40), Vietnam Mathematical Olympiad.
- 2007 First Prize (ranked 1<sup>st</sup>), Mathematical Olympiad of Thua Thiên – Huê province, Vietnam.
- 2006 Silver Medal, Mathematical Olympiad for High School Students of the Center and the South, Vietnam.

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## 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](http://diendantoanhoc.net)). I also spend my free time answering questions on Math StackExchange website, mostly on Olympiad Inequalities.

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## Reference

### Nikos Paragios

Professor of Applied Mathematics

Director of the Center for Visual Computing, CentraleSupélec, France

✉ [nikos.paragios@centralesupelec.fr](mailto:nikos.paragios@centralesupelec.fr)

☎ +33 1 41 13 17 85