Bruno CONEJO

2nd year Graduate Student - Ecole Des Ponts ParisTech / Analyst Researcher - Caltech http://imagine.enpc.fr/~conejob/ bconejo@gmail.com

Summary

I am a result-oriented engineer researcher with excellent analytical and organizational skills. My field of expertise is at the boundary of computer vision and machine learning, where I design, implement and publish in top rank conferences algorithms for stereo-matching and graphical models inference. I have demonstrated the ability to quickly learn, apply knowledge and develop new tools, while timely completing tasks in challenging environments. I utilize leadership, communication and interpersonal skills to build successful work relationship.

Skills

Computer vision	Matlab including GUI & MEX	Research Paper writing
Machine Learning	C++	English & French

Research And Industry Experiences

Ecole Des Po Oct 2013 To now	onts ParisTech / Université Paris-Est: LIGM Laboratory PhD student I research on Graphical Models for stereo-matching applications: Speeding-up inference of MRF/CRF (IbyL framework NIPS-2014), Learning the potentials of MRF/CRF (expected 2015), Enhancing MRF/CRF formulation for stereo-matching applications (expected	École des Ponts ParisTech
<u>California Ins</u> Apr 2012 To now	 <u>Analyst researcher</u> I research on remote sensing applications for geology: Stereo matching based on discrete graphical models (PCV-2014 paper) Estimation of topography evolution from LiDAR or DTM time series (AGU Participation in the redaction of proposals. 	-2013 poster),
<u>Sagem Defe</u> Jan 2010 - Jul 2011	 <u>nse Securite, Safran Group: International Industrial Company</u> <u>System engineer</u> within a project team of 30 members I conducted functional analysis and conception of new periscope products: Managed a team of two engineers and interfaced with clients on a weekly Analyzed clients needs and expectations, Designed functional architecture and wrote the engineering specifications 	
Nov 2007 - Dec 2009	 Lead image processing engineer within a project team of 80 members I lead design and development of image processing algorithms for new periscope Managed a team of three engineers, Was responsible for cost control, quality and timely delivery, Created and adapted algorithms of panoramic reconstruction and tone members 	
Educatio		

Education

2012: Master's Degree, Applied Mathematics - M.V.A - E.N.S Cachan Mathematics for machine learning and computer vision

2007: Master's Degree, *Electrical Engineering* – Information Processing Systems – Telecom Bretagne Mathematics and Physics for Information Technology

Main Publications

NIPS: Inference by learning: Speeding-up graphical model optimization via a coarse-to-fine cascade of pruning classifier. B. Conejo, N. Komodakis, S. Leprince, and J. P. Avouac. In Advances in Neural Information Processing Systems 27, pages 1–9. 2014.

PCV: Fast global stereo matching via energy pyramid minimization. B. Conejo, S. Leprince, F. Ayoub, and J. P. Avouac. ISPRS Ann. Photogramm. Remote Sens. Spatial Inf. Sci., 2014.

AGU: A 2D and 3D registration framework for remote sensing data, B Conejo, S Leprince, F Ayoub, J Avouac, AGU Fall Meeting, 2013.

Referees





