Loïc SIMON

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2007-2011	Ecole Centrale Paris, France PhD candidate in Computer Vision, in MAS laboratory, under the supervision of Pr. Nikos Paragios, on Image-Based Building Modeling using Shape Grammars.
2006-2007	Ecole Normale Superieure de Cachan, France Master's Degree : Mathematics, Vision and Learning.
2005-2006	Ecole Normale Superieure de Cachan, France Agregation (highly selective national French contest) in Mathematics, rank 37.
2003-2005	Ecole Normale Superieure de Cachan, France Bachelor and 1 st year of Master in Applied Physics.
	University of Orsay, France Bachelor and 1^{st} year of Master in Theoretical Mathematics.

Research Experience

May-Aug 2010	BIWI Laboratory at ETHZ, Zürich, Switzerland Invited PhD student. Supervisor: Pr. Luc Van Gool.
Apr-Aug 2007	Ecole Centrale Paris, France Internship, on Bayesian 3D reconstruction of Buildings. Supervisor: Pr. Nikos Paragios.
Apr-Aug 2005	Supelec, Paris, France Internship, on Positive Impulsed Deconvolution: Application to Skin Tomography. Supervisor: Pr. Jean-François Giovanelli.

Teaching Experience

Mathematics

Mathematics theory	Probability theory. Addressed to 1 st year students at Ecole Centrale Paris. Supervisor:Pr. Erick Herbin, 2007-2011.				
	Optimization and Simulation. Addressed to 1 st year students at Ecole Centrale Paris. Supervisor: Pr. Pascal Laurent, 2007-2008.				
Applied	Computer Vision. Addressed to 2 nd year students at Ecole Centrale Paris.				

Supervisor: Pr. Iasonas Kokkinos, 2008-2011.

Signal Processing. Addressed to 2nd year students at Ecole Centrale Paris.

Supervisor: Pr. Iasonas Kokkinos, 2008-2011.

Student projects

Supervised many such projects at Ecole Centrale Paris.

Publications

Journals Random Exploration of the Procedural Space for Single-View 3D Modeling of

Buildings,

L. Simon, O. Teboul, P. Koutsourakis, and N. Paragios,

IJCV (Special issue on Image Grammars), 2010.

Conferences Shape Grammar Parsing via Reinforcement Learning,

O. Teboul, I. Kokkinos, L. Simon, P. Koutsourakis, and N. Paragios,

CVPR 2011 in Colorado Spring, USA.

Segmentation of Building Facades using Procedural Shape Prior,

O. Teboul, L. Simon, P. Koutsourakis, and N. Paragios,

CVPR 2010 in San Francisco, USA.

Single View Reconstruction Using Shape Grammars for Urban Environments,

P. Koutsourakis, L. Simon, O. Teboul, G. Tziritas and N. Paragios,

ICCV 2009 in Kyoto, Japan.

In progress Procedural Reconstruction of Buildings: Towards Large Scale Reconstruction of

Urban Environments, L. Simon, PhD Dissertation,

To be defended on: 25th of July 2011.

3 pending publications in Computer vision and medical imaging.

Specific Skills

Programming Languages

C++, Python, Matlab, OpenCV, QT, OpenGL, OpenSceneGraph, GLSL. French (mother tongue), English (fluent), Spanish (prior knowledge).

Personal Interests

Handball (university contest), cycling, reading.