

**Thomas Hurtut**  
Presently looking for a PostDoc position

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EDUCATION 

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**Ph.D. 2008, Télécom Paris & Ecole Polytechnique de Montréal**  
supervised by Francis Schmitt, Yann Gousseau and Farida Cheriet

**M.Sc.A 2003, Ecole Polytechnique de Montréal**  
supervised by Farida Cheriet

**Supélec, France**

RESEARCH 

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**Doctoral** *Pictorial content analysis and indexing of 2D artworks*  
(committee members : Alberto del Bimbo, Jean-Marc Chassery, Jean-Michel Morel)

- Focused on two specific aspects : the pictorial effect induced by the linear strokes content and the spatial organization of colors in an artwork.
- Evaluation results conducted on 7 databases gathering a total of 65000 artworks
- Proposed a parameter-free detection of strokes closed boundary in line drawings
- Proposed an adaptive matching criterion for image indexing

PROFESSIONAL EXPERIENCE 

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**2003-2004** *Research Associate at LIS3D, Biomedical imaging lab., Montreal Canada*

- participated to the development of a 3D simulation software for medical surgeries
- integrated four main software modules : GUI, 3D viewer, mechanical simulation and API management
- intensively used some C++/Qt/UML programming tools and frameworks

TEACHING EXPERIENCE 

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**Ecole Polytechnique de Montréal :**

300h designer, INF4720 graduate course (summer 2008)

3h lecturer, INF6801 graduate course (winter 2008)

3h lecturer, INF4710 graduate course (fall 2007)

3h lecturer, INF6801 graduate course (winter 2007)

45h lecturer, INF1005A undergraduate course (fall 2006)

45h practical work supervisor, INF1005A undergraduate course (fall 2005)

## PUBLICATIONS

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### Journals

*Adaptive image retrieval based on the spatial organization of colors*  
Hurtut Thomas, Gousseau Yann and Schmitt Francis  
Computer Vision and Image Understanding, in press 2008

*Pictorial content analysis of line-drawings using geometrical information*  
Hurtut Thomas, Gousseau Yann, Cheriet Farida and Schmitt Francis  
in preparation

### Conferences

*Pictorial analysis of line-drawings*  
Hurtut Thomas, Gousseau Yann, Cheriet Farida and Schmitt Francis  
Computational Aesthetics (CAe'2008), Lisbon Eurographics

*Automatic closed edge detection using level lines selection*  
Hurtut Thomas, Cheriet Farida  
International Conference on Image Analysis and Recognition (ICIAR'2007), Montreal

*A novel collaborative website and artworks database management system for artist-run centres*  
Hurtut Thomas, Cheriet Farida and Chronopoulos Maria  
International Conference on Hypermedia and Interactivity in Museums (ICHIM'07), Toronto

*Spatial color image retrieval without segmentation using thumbnails and the Earth Mover's Distance*  
Hurtut Thomas, Dalazoana Haroldo, Gousseau Yann and Schmitt Francis  
Color in Graphics, Imaging and Vision (CGIV'2006), Leeds IS&T's Conference

*Enhancement and Segmentation of Scar Color Images after a Scoliosis Surgery*  
Hurtut Thomas, Cheriet Farida, Joncas Julie, Dansereau Jean  
IEEE Conference on Digital Imaging Computing : Technique and Applications (DIC-TA'2003), Sydney

### Thesis

*Recherche et analyse d'oeuvres d'art 2D selon le contenu pictural*  
Hurtut Thomas  
Ph.D. Thesis, defence scheduled on March 4<sup>th</sup> 2008

*Segmentation automatique d'image couleur pour le suivi des cicatrices suite à une chirurgie de la scoliose*  
Hurtut Thomas  
M.Sc.A. Thesis, 2003

## SCHOLARSHIP

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**FQRNT Ph.D. research scholarship, 2005-2007**

## REFERENCES

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### **Francis Schmitt**

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