Christophe Rigaud

Ph.D. student - document analysis & computer vision

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Educations

- **Ph.D. in computer vision and document analysis** — La Rochelle, FR
  Laboratory of computer science, image and interaction - L3i — *Oct. 2011 – Present*
  - Jointly supervised by the Computer Vision Center of Barcelona (CVC)
  - Subject: detection and recognition of complex objects from digitalized comic books
    * State of the art of comics content analysis and understanding
    * Publication to scientific conferences and peer reviews
    * Event organisation, trainee supervision, assistant teaching

- **Research Master in Dynamic System and Signals** — Angers, FR
  Industrial Systems Engineering School - ISTIA — *Oct. 2010 – Jul. 2011*
  - Key Courses: image processing, signal processing, statistical processing of information, robotics
  - Project: method and application to optimize windowing of CT images (700h)
    * image interpretation by topologic and photometric a priori knowledges through inference engine

- **Information Technology and Automation Engineer** — Angers, FR
  Industrial Systems Engineering School - ISTIA — *Sep. 2008 – Feb. 2011*
  - Key Courses: Unix & Windows programming, cost analysis, web development, network security, virtual reality, signal processing, monitoring, traceability, data communications, real-time, embedded systems
  - Project: image matching method based on mapping (80h x3)
    * Object recognition and learning process (Scale Invariant Feature Transform)

- **Three-year degree in automatism and industrial network system** — Marseille, FR
  Technical institute - IUT Salon de Provence — *Sep. 2007 – Jul. 2008*
  - Project: creating a virtual instrument (with Labview) for students (135h x2)
    * Oven temperature regulation with air flow perturbation

Experiences

- **Osaka Prefecture University - Intelligent Media Processing** — Osaka, JP
  Research stay — *Jan. 2013 – Mar.2013*
  - Comics character detection - **research**
  - Manga ground truth construction - **collaboration**

- **Computer Vision Center - Document analysis** — Barcelona, ES
  Research stay — *May. 2012 – Jul.2012*
  - Text localisation in comics - **research & publications**
  - Comics ground truth construction - **collaboration**

- **L3i - Computer vision and document analysis** — La Rochelle, FR
  Doctoral researcher — *Oct. 2011 – present*
  - State of the art of comics content understanding - **research**
  - Journal and scientific conference publications - **communication**

- **LISA - Automated systems Engineering** — Angers, FR
  Research internship — *Mar. 2011 – Jul. 2011*
  - State of the art of CT image topologic and photometric interpretation - **research**
  - Windowing optimization and segmentation of abdominal CT images - **diagnostic assistance**

- **Traveltura.com Ltd - 0n-line travel agency** — New Romney, UK
  IT Engineer — *May 2010 – Aug. 2010*
  - IT department management, network assistant - **communication**
  - Web development, hosting, Search Engine Optimisation, web design training - **brainstorming**

- **Bontour - Tour operator** — St. Helier, UK
  Representative - Meeting and greeting European groups — *May 2009 – Aug. 2009*
    - Training on computers, designing templates - **training**
    - Scheduling day tours - **organisation**

Publications

An active contour model for speech balloon detection in comics
Proceedings of the 12th International Conference on Document Analysis and Recognition (ICDAR), 2013
  - Christophe Rigaud, Dimosthenis Karatzas, Joost Van de Weijer, Jean-Christophe Burie, Jean-Marc Ogier

eBDtheque: a representative database of comics
Proceedings of the 12th International Conference on Document Analysis and Recognition (ICDAR), 2013
  - Clément Guérin, Christophe Rigaud, Antoine Mercier et al.

Speech balloon contour classification in comics
Proceedings of the 10th IAPR International Workshop on Graphics Recognition (GREC), 2013
  - Christophe Rigaud, Dimosthenis Karatzas, Jean-Christophe Burie, Jean-Marc Ogier

Redundant structure detection in attributed adjacency graphs for character detection
Proceedings of the 10th IAPR International Workshop on Graphics Recognition (GREC), 2013
  - Hoang Nam Ho, Christophe Rigaud, Jean-Christophe Burie, Jean-Marc Ogier

Automatic Text Localisation in Scanned Comic Books
International Conference on Computer Vision Theory and Applications (VISAPP), pp. 814-819, 2013
  - Christophe Rigaud, Dimos Karatzas, Joost van de Weijer, Jean-Christophe Burie, Jean-Marc Ogier

Robust frame and text extraction from comic books
Graphics Recognition. New Trends and Challenges (LNCS), vol. 7423, pp. 129-138, 2013
  - Christophe Rigaud, Norbert Tsopze, Jean-Christophe Burie, Jean-Marc Ogier

Extraction robuste des cases et du texte de bandes dessines
Colloque International Francophone sur l'Ecrit et le Document (CIFED), pp. 349-360, 2012
  - Christophe Rigaud, Norbert Tsopze, Jean-Christophe Burie, Jean-Marc Ogier

Skills

Languages: French (mother), English (TOEIC 900), Spanish (intermediate), Japanese (elementary).

Programming: Python, Java, C++, UML, Bash, PHP, HTML, CSS, LaTeX, .NET (C#, ASP, VB), SQL.

Software: MS Visual Studio, IPython, MatLab, NetBeans, Eclipse, Gimp, Inkscape, Joomla.

Hobbies: Biking, racket sports, pool, Search Engine Optimisation.

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