Curriculum Vitæ

Jean Martinet

Assistant Professor, CNU section 27

First name : MARTINET
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Status : Associate professor (CNU 27)
Institution : CRIStAL – IUT “A” – University of Lille
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1 Career

Since dec. 2007 : Associate professor CNU 27, Image and video indexing.
CRIStAL (UMR Lille 1/CNRS 9189) – IUT “A”
Lille 1 University
Team leader of FOX research team : Since March 2014.
Holder of a Bonus for Scientific Excellence (PES B) : 2010–2014
Holder of a Bonus for Ph.D. and Research Supervising (PEDR B) : 2014–2018
Dec. 2005 - nov. 2007 : Postdoctoral researcher (24 months)
National Institute of Informatics, Tokyo, Japan.
Sept. 2004 - aug 2005 : Teaching and Research Assistant (ATER),
CLIPS-IMAG laboratory (UMR CNRS/UJF/INPG 5524)
Pierre-Mendès-France University, Grenoble III.
Oct. 2001 - dec. 2004 : PhD in Computer Science,
A relational vector space model adapted to images
CLIPS-IMAG laboratory, Joseph Fourier University
Grenoble I (Government grant)
Advisors : Pr. Yves Chiaramella, Dr. Philippe Mulhem,
Reviewers : Pr. J.-M. Pinon, Pr. M. Boughanem, President of jury : Pr. C. Garbay.

2 Research directions

My research activities in FOX¹ research group in CRIStAL² are related to multimedia indexing/retrieval and computer vision. The main objectif is the efficient representation of visual contents (images, videos), in order to allow a content-based search. My works are more specifically directed towards two axis :

1. Fouille et indexation de dOcuments compleXes et multimedia
2. Centre de Recherche en Informatique, Signal et Automatique de Lille
— image representations for indexing and retrieval: bag of words, relations between descriptors, weighting schemes for image parts,
— person recognition by exploring the use of depth and time.
The results of these works are generally implemented in applicative domains such as content-based access to image and video documents, image and video understanding.

3 Teaching activities since 2013

I give the details of my teaching activities since 2013, amounting to an average volume of 230 hours/year.

— **Object-oriented programming and design (IUT M2103, M2104, and M3105)**: Advanced course of object-oriented design and programming, design patterns, Java language. DUT level, 1st year (72 hours/semester, with an average of 25 students/semester) and 2nd year (32 hours/semester, with an average of 90 students/semester). Period: 2013–now.


— **Responsible for student projects**: Coordination of students project (free small-scale software development by groups of 2-3). DUT level, 1st year (16 hours/semester with an average of 50 students/semester). Period: 2010–2014.


The period starts in 2013 from the application of the new National Educational Program (Programme Pédagogique National). I participated in the elaboration of this program during several national meetings, namely regarding object-oriented programming and design (meetings in Dijon, 2011 and Orléans, 2012), and student projects (meeting in Bordeaux, 2012).

4 PhD students supervision

Current

— **Mr Cagan Arslan (Lille 1)** (50%, with Pr. Laurent Grisoni):
  — “Data fusion for man-machine interaction”

— **Miss Jalila Filali (ENSI Tunis)** (50%, with Dr. Hajer Baazaoui):
  — “Image retrieval by learning ontologies and visual features”

Past

— **Mr Rémi Auguste (Lille 1)** (75%, with Pr. Chaabane Djeraba):
  — “Dynamic person recognition in audio-visual TV shows”
  — Rémi has created and is CEO of a collaborative video editing platform (www.weaverize.com).
Miss Amel Aissaoui (Lille 1) (75%, with Pr. Chaabane Djeraba):
— “Bimodal face recognition by merging visual and depth features”
— Amel is now Assistant Professor at University of Sciences and Technology HOUARI BOUMEDIENE, Bab Ezzouar, Algeria.

Mr Ismail El Sayad (Lille 1) (75%, with Pr. Chaabane Djeraba):
— “A higher-level visual representation for semantic learning in image databases”
— Ismail is now Assistant Professor at Lebanese International University (LIU), Beirut, Lebanon.

5 Research projects, relation with industry

— PERCOL (nov 2010 – jun 2014, ANR-10-CORD-0102) – PERson reCOgnition in audiovisual content
— Context of the national REPERE challenge targeting person spotting and naming from TV shows.
— I was leader of the WP “Video analysis for person recognition”.
— Partners: France Telecom (Orange Labs Lannion), LIF (Aix-Marseille University) – project leader, LIA (University of Avignon and the Vaucluse), LIFL (Lille 1 University).
— Total project grant: 397,800 euros.
— Lille 1 University grant: 96,620 euros (funded 2 years of Rémi Auguste PhD).
— URL: http://www.agence-nationale-recherche.fr/?Project=ANR-10-CORD-0102

— TWIRL (jun 2012 - oct 2014, ITEA 2 Call 5 10029) – Twinning virtual World (on-line) Information with Real world (off-Line) data sources
— Ioan Marius Bilasco and I were task leader for two tasks: “Mobile video processing for location and people recognition”, and “Dissemination activities and project website”.
— Partners from 3 countries: Cassidian Cybersecurity (France) – project leader, Pertimm (France), Ipernity (France), Mondiaca (France), Lille 1 University (France), Telecom SudParis (France), TelecomParisTech (France), Smartsoft (Turkey), Tilda (Turkey), Tmob (Turkey), Siveco (Romania), Altfactor (Romania).
— Total project grant: 5,762 Keuros.
— Lille 1 University grant: 245 Keuro (funded a total of 45 person.month for 4 engineers/postdocs).

6 Other activities and contributions

— Workshop organization
  1. International Workshop on Multimedia Analysis of User Behaviour and Interactions (MAUBI), satellite event of the IEEE International Symposium on Multimedia (ISM’08). One-day event, 4 accepted papers. 16 participants.
  2. International Workshop on Multimodal Interactions Analysis of Users a Controlled Environment (MIAUCE), satellite event of the International Conference on Multimodal Interfaces (ICMI’08). 6 accepted papers. 25 participants.


— International conference review for over 30 conferences between 2006 and 2016, including ACM MM’06, IEEE ICME’07, ECIR’08, ICPR’2012, CORIA’13, CORIA’14, VISAPP’14, ICPR’14, MMM’15, ACM MM’16, ICPR’16.

— Organizing committee of CORIA’05 (Grenoble) and CORESA’12 (Lille): participation to local organization and logistics.
— Co-organizer of SIMIE’11 (“Special Session on Simulation and Interaction in Intelligent Environments” – satellite event of the International Conference on Pervasive and Embedded Computing and Communication Systems (PECS’11), Vilamoura, Portugal), March 5-7, 2011.
— Member of Selection Committee (COS Lille 1), 2012.
— Technical expertise for an agreement committee for a start-up creation at Chambre de Commerce et d’Industrie Grand Lille, March 2012.
— Member of the Management Committee of ICT COST Action IC1307 – European Network on Integrating Vision and Language (iV&L Net), since January 2014.
— Reviewer and PhD examination board member for the PhD of Francis Deboeverie, Ghent University - Vision Systems/IPI/TELIN/iMinds, 2014.

7 Selected publications between 2008 and 2016

International journals


International and national conferences/workshops

2016


2015
1. **Space-time Histograms And Their Application To Person Re-identification In TV Shows.** Rémi Auguste, Jean Martinet, Pierre Tirilly. 5th ACM International Conference on Multimedia Retrieval (ICMR 2015), pp. -, June 2015, Shanghai, China.


3. **Introducing FoxPersonTracks : a Benchmark for Person Re-Identification from TV Broadcast Shows.** Rémi Auguste, Pierre Tirilly, Jean Martinet. 13th International Workshop on Content-Based Multimedia Indexing (CBMI 2015), pp. -, June 2015, Prague, Czech Republic.

4. **Pruning near-duplicate images for mobile landmark identification : a graph theoretical approach.** Taner Dansiman, Jean Martinet, Marius Bilasco. 13th International Workshop on Content-Based Multimedia Indexing (CBMI 2015), pp. -, June 2015, Prague, Czech Republic.


6. **Bi-modal face recognition – How combining 2D and 3D clues can increase the precision.** Amel Aissaoui, Jean Martinet. 10e International Conference on Computer Vision Theory and Applications (VISAPP 2015), pp. -, March 2015, Berlin, Germany.

### 2014


### 2013

1. **Human-centered region selection and weighting for image retrieval.** Jean Martinet. 8e International Conference on Computer Vision Theory and Applications (VISAPP 2013), pp. 729-734, Barcelona, Spain. Feb. 2013. URL : http://hal.inria.fr/hal-000812320.

2. **Unsupervised Face Identification in TV Content using Audio-Visual Sources.** Meriem Bendris, Benoit Favre, Delphine Charlet, Géraldine Dannati, Rémi Auguste, Jean Martinet, and Gregory Senay. 11th International Workshop on Content-Based Multimedia Indexing (CBMI 2013). June 2013.

3. **PERCOLI : a person identification system for the 2013 REPERE challenge.** Benoit Favre, Geraldine Dannati, Frederic Bechet, Meriem Bendris, Delphine Charlet, Rémi Auguste, Stéphane Ayache, Benjamin Bigot, Alexandre Delteil, Richard Dufour, Corinne Fredouille, Georges Linarès, Jean Martinet, Gregory Senay, Pierre Tirilly. First Workshop on Speech, Language and Audio in Multimedia, InterSpeech satellite event, August 2013, Marseille, France. URL : http://hal.inria.fr/hal-00812334.

2012
2. Percol0 - un système multimodal de détection de personnes dans des documents vidéo. Frédéric Bechet, Rémi Auguste, Stéphane Ayache, Delphine Charlet, Géraldine Dammati, Benoit Favre, Corinne Fredouille, Christophe Levy, Georges Linarès, Jean Martinet. JEP-TALN-RECITAL 2012, pp. 553-560. 4-8 juin 2012, Grenoble, France. 2012. URL : http://hal.inria.fr/hal-00812159.

2011

2010


6. **Toward a higher-level visual representation for content-based image retrieval.** Ismail El Sayad, Jean Martinet, Thierry Urruty, Samir Amir, and Chabane Djeraba. In ACM International Conference on Advances in Mobile Computing and Multimedia (ACM MOMM), pages 221-228, 2010.