

Romain Negrel

PhD student, ETIS lab, France

CONTACT

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BIRTH DATE

23 April 1986

CITIZENSHIP

French

RESEARCH

Lab: **ETIS/ENSEA - University of Cergy-Pontoise - CNRS**, France.
Main themes: *Computer Vision, Content-Based Image Retrieval, Near-duplicate Image Retrieval, Image Signature Extraction, Signature Dimensionality Reduction*

EDUCATION AND EXPERIENCE

Ph.D. in Multimedia Indexing, December 2014
Optimal representations for image search in heritage datasets
University of Cergy-Pontoise, Cergy, France.
Supervisor: [Philippe-Henri Gosselin](#)
Co-supervisor: [David Picard](#)

M.Sc., Intelligent and Communicating Systems (SIC-R), September 2011
Image and Multimedia Information Systems Branch, head of the class
University of Cergy-Pontoise, Cergy, France.

B.Sc., Engineer's Diploma, ENSEA, June 2010
Computer Science Branch
École Nationale Supérieure d'Électronique et de ses Applications (Electrical Engineering and Computer Science, Graduate School), Cergy, France.

"Classes préparatoires",
Technologies and Industrial Sciences, June 2006
Antonin Artaud High School, Marseille, France.

Baccalaureate, Science and Engineering, July 2004
Electronics branch, with honors
Antonin Artaud High School, Marseille, France.

TEACHING

Teaching Assistant, Études Doctorales de UCP, October 2011 - September 2014
IUT of Cergy Pontoise - Site of Neuville-sur-Oise, France
Electrical Engineering and Industrial Computing Department

- Algorithms and Programming (142 hours).
- Programming on embedded system (48 hours)

INVITED TALKS
AND WORKSHOP
WITHOUT
PROCEEDINGS

- [T4] “SHS and Information Science”, Organized by the **Science of Heritage Foundation**, at UFR of Science of Versailles, France, 31 January 2014.
- [T3] Workshop, “Sparse Models and Machine Learning”, Organized by **Signal, Image & Robotics Division** of **IRISA**, Rennes, France, 15-16 October 2012.
- [T2] Workshop **GdR ISIS**, “Preparation of TRECVID’2012 campaign by IRIM consortium”, Organized by Georges Quénot, Matthieu Cord, and Jenny Benois-Pineau, at Télécom ParisTech, Paris, France, 29 Mars 2012.
- [T1] “First doctoral workshop of LabEx PATRIMA”, Organized by the **Science of Heritage Foundation**, at Château de Versailles, Versailles, France, 20 January 2012.

PROFESSIONAL
BACKGROUNDS

- M.Sc Internship**, “Learning for video search in database with the tensors framework”, **ETIS**, Cergy, France, April to September 2011.
- B.Sc Internship**, “Emulation of IP video cameras using animated virtual scenes”, **THALES Training & Simulation**, Cergy, France, March to August 2010.
- Undergraduate Laboratory Internship**, “Software development for 3D reconstruction with stereo multi-view”, **ETIS**, Cergy, France, July to August 2009.
- Undergraduate Internship**, “Library development to generate barcodes”, **P.A Technologies**, Cergy, France, July to August 2008.

ACTIVITY OUTSIDE
RESEARCH

- NOVA-Robotics Association**,
I am president of NOVA-Robotics association whose aim is promote new technologies including participating to the “Coupe de France Robotiques”.
www : nova-robotics.fr.
- Sport**,
swimming and cycling.

LANGUAGES

- French**,
mother tongue
- english**,
read and writte: very good,
spoken good

PUBLICATIONS

JOURNAL PAPERS

- [MM13] Negrel, R., Picard, D., and Gosselin, P.H., “Web-scale image retrieval using compact tensor aggregation of visual descriptors”, *MultiMedia, IEEE, Special issue*, vol. 20, no. 3, pp. 24–33, July to September 2013.

INTERNATIONAL CONFERENCE PAPERS

- [ICIP14] Negrel, R., Picard, D., and Gosselin, P.H., “Dimensionality reduction of visual features using sparse projectors for content-based image retrieval”, *International Conference Image Processing (ICIP)*, **10% best paper**, Paris, France, October 2014.
- [ICPR14] Negrel, R., Picard, D., and Gosselin, P.H., “Efficient dimension reduction of global signature with sparse projectors for image near duplicate retrieval”, *International Conference on Pattern Recognition (ICPR)*, Stockholm, Sweden, August 2014.
- [CBMI14] Negrel, R., Picard, D., and Gosselin, P.H., “Evaluation of second-order visual features for land-use classification”, *Content-Based Multimedia Indexing (CBMI)*, International Workshop, Klagenfurt, Austria, June 2014.
- [ICPR12] Negrel, R., Picard, D., and Gosselin, P.H., “Using spatial pyramids with compacted vlat for image categorization”, *International Conference on Pattern Recognition (ICPR)*, Tsukuba, Japan, November 2012.
- [ICIP12] Negrel, R., Picard, D., and Gosselin, P.H., “Compact tensor based image representation for similarity search”, *International Conference Image Processing (ICIP)*, Orlando, Florida, September 2012.

NATIONAL CONFERENCE PAPERS

- [RFIA12] Negrel, R. Mota, V. F., Gosselin, P.H., Vieira, M. B., et Precioso F., “Indexation des Bases Vidéos à l’aide d’une Modélisation du Flot Optique par Bases de Polynômes”, *Francophone conference on Pattern Recognition and Artificial Intelligence (RFIA)*, Lyon, France, January 2012.