CURRICULUM VITAE

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CNU Section: 27  Research Team: LIPADE, EA 2517

EDUCATIONAL AND PROFESSIONAL BACKGROUND

<table>
<thead>
<tr>
<th>Organism</th>
<th>Date</th>
<th>Diplôme et Fonction</th>
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<tbody>
<tr>
<td>University Paris Descartes</td>
<td>11 June 2013</td>
<td>“Habilitation à Diriger des Recherches” : Informatics and Image Processing</td>
</tr>
<tr>
<td>University Paris Descartes</td>
<td>since Sept. 2002 - currently</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>University Pierre et Marie Curie</td>
<td>Nov. 1996-Oct. 1997</td>
<td>Master Degree : Artificial Intelligence, Pattern Recognition and Applications</td>
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COLLABORATIONS (FUNDED PROJECTS)

CNES, Toulouse
Laster Technology SA, INRIA and Cité des Sciences et de l'Industrie, France (Local responsible for a French Research Agency project ANR-RIAM-REVES-2007 about Virtual Reality) Grant : 530 000 euros for the project, including 64 000 euros for the LIPADE partner.

IGN, Paris
AGFA Healthcare and TRIBVN SA, French Research Agency project ANR-TECSAN-MICO about Cognitive Microscopy Grant : About 1 million euros for the project, including 300 000 euros for the IPAL partner.

Institut Pasteur, Paris
A*STAR, Biopolis Research Centers Singapore and I2R

Hôpital de la Pitié Salpêtrière, Paris
France Telecom, Paris

| METU (Middle East Technical University), Ankara, Turkey (Local responsible for a PAI Bosphorus – now Hubert Curien program - about Object Categorization) | INRA [French Agronomic Institute via ITAVI], Tours, France, (Local responsible for a French Research Agency project ANR-RNTL-VISAVI-2008 about Bird Visual Perception ) Grant : 700 000 euros for the project, including 97 000 euros for the LIPADE partner |

PUBLICATIONS AND COMMUNICATIONS

Books

Chapters
Edition


International Journal


International Conferences with committee


IEEE International Conference on Image Processing (ICIP), Melbourne, Australia, 4 pages, September 2013.


[C14] N. Loménie, Reasoning with spatial relations over high-content images, IEEE World Congress on Computational Intelligence, WCCI’2010, hosting the International Joint Conference on Neural Networks, IJCNN’2010, Barcelona, Spain, July 2010


Poitiers, France, March 2005,


**International Conferences**


**National Conferences with committee and international audience**


**Research reports**


**Seminars**

- National University of Singapore (NUS), Janvier 2015.
- Columbia University, Department of BioEngineering, New York, Mai 2014
• National University of Singapore (NUS), Juin 2008.
• Simon Fraser University of Vancouver (SFU), Déc. 2007.
• METU (Middle East Technical University), Ankara, Turkey. For Foreign Affairs Minister, as invited lecturer, Juillet 2001, Mai 2007.
• CAOR, Ecole des Mines.

COLLECTIVE RESPONSIBILITIES

• Member of the steering committee of the Bachelor Degree Paris Descartes and responsible for the joint degree at the master level with ENIT, Tunis.
• Leading the Medical Image Understanding team (http://ipal.i2r.a-star.edu.sg/research-axes) at IPAL, CNRS from January 2010 to September 2011.
• Organisation of the Cross-Knowledge meeting between IPAL, NUS, I2R from January 2010 onwards: http://ipal.i2r.a-star.edu.sg/event/cross-knowledge

Serving as expert for French Agencies: ANR, AUF, CIFRE

• Organisation of five ECOI workshops within the EGC conference from 2005 to 2009: Knowledge Extraction and Images http://www.math-info.univ-paris5.fr/~lomn/ECOI.htm

Serving as reviewer: Pattern recognition, Pattern recognition letters, Geoscience and remote sensing letters, Computerized Medical Imaging and Graphics, etc.

Serving as a member of recruiting committee (University Paris 5 (section 26) and Metz)

Serving as a member of 9 Ph.D. defence committees and many mid-term committee reviews:
  • Adel Hafiane, FCM with Spatial and Multiresolution Constraints for Image Segmentation, director Bertrand Zavidovique, President University Paris 11, 2005
  • Julien Richefeu, Motion detection and analysis in digital retina-based vision systems, director Antoine Manzanera, University Paris 6, 2006
  • Elodie Dusch, Modélisation de la réponse impulsionnelle pour la détection de particules en microscopie par fluorescence, director Auguste Genovesio, University Paris 5, 2008
  • Guray Erus, Reconnaissance d’objets cartographiques dans les images satellitaires à haute résolution, director Georges Stamon, University Paris 5 (as co-director 80%), 2008
  • Rabie Hachémi, Vision Artificielle pour l’Analyse de la Perception Animale: Un Outil d’Aide à la Pr ’évision du Comportement Alimentaire, director Nicole Vincent, University Paris 5 (as co-director 50%), 2010
  • Adina Tutac, Formal Representation and Reasoning for Microscopic Medical Image-Based Prognosis. Application to Breast Cancer Grading, director Daniel Racoceanu, University of Besançon and University of Timisoara, 2010
  • Stéphane Rigaud, director Daniel Racoceanu et Joo Hwee Lim, Université Paris 6, (as co-director 50%), 2014.
  • Aymen Sellaouti, director Aline Deruyver, Université de Strasbourg, (as a reviewer) 2014.
  • Chloé Murtin, director David Rousseau, Université de Lyon (as president) october 2016.

ELECTIVE DUTIES

2005-2009  Ass. Professors representative in faculty committees and councils

Before 2007 : representative at the CEVU (Study and University Life Council) of the University and its board.

Since 2007 : representative at the CS (Scientific Council) of the University and its board as well as the local department councils.

2007-2009 : councillor at the Bureau de l’Université (University Board).
**Academic and Teaching Skills**

*Fields*: Image Analysis, Computer Vision, Pattern Recognition, Machine Learning, Artificial Intelligence, Database and Data Mining, Bioinformatics, Computational Biology

*Computer Languages*: C, C++, Java

*Operating Systems*: Linux (mainly used), Unix, Windows

*Languages*: French (mother tongue), English (fluent)

**Illustration of Average Teaching Duties**

<table>
<thead>
<tr>
<th>Discipline</th>
<th>French Level</th>
<th>Hours Teaching A year</th>
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<tbody>
<tr>
<td>Database</td>
<td>M1</td>
<td>24 h tutorial</td>
</tr>
<tr>
<td>Data Mining</td>
<td>M1</td>
<td>40 h lecture / 40 h tutorial</td>
</tr>
<tr>
<td>Bio-Informatics</td>
<td>L3</td>
<td>15h TD</td>
</tr>
<tr>
<td>Computational Biology</td>
<td>L2</td>
<td>15h Cours / 20h tutorial</td>
</tr>
<tr>
<td>Image Analysis &amp; Pattern Recognition</td>
<td>M2</td>
<td>22 h lecture / 15 h tutorial</td>
</tr>
<tr>
<td>Java</td>
<td>L3</td>
<td>15 h lecture / 15h tutorial</td>
</tr>
<tr>
<td>Artificial Intelligence</td>
<td>M2</td>
<td>10 h lecture</td>
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All lectures apart from the programming language ones were designed from scratch. In particular the **Computer Vision** ones were part of our team efforts to build up a master program about Digital Image Handling.