

## Redouane KHEMMAR

Born on 14<sup>th</sup> February 1975  
French nationality

## Personal address

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**Work Web site:** <http://lsiit-miv.u-strasbg.fr>

**Web site:** [www.3d-reconstruction.org](http://www.3d-reconstruction.org)

## EDUCATION

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- 2002 – 2005** **PhD degree on Image Processing** Louis Pasteur University, Strasbourg, France  
*Thesis title:* “**Controlled Extraction of Image Features and Automatization of 3D Reconstruction. Application to the Automated Vision-based Dimensional Measuring**” PhD obtained on the 8<sup>th</sup> December **2005**.  
*Supervisors:* Ernest Hirsch (Prof.) and Alex Lallement (Professor Assistant - MCF)  
*Affiliations:* Image Sciences, Computer Sciences and Remote Sensing Laboratory (LSIIT), Team of Models, Images and Vision (MIV)  
*Keywords:* Computer Vision, 3D reconstruction, Process Automatization, Planning, Situation Graph Trees, Active Contours Segmentation, Design of Experiments, Dimensional Inspection and Quality Control.
- 2001 – 2002** **DEA (European Master. Sc.)** Poitiers University, France  
Postgraduate Degree on Information Processing, Computer Science, Image and Automatic. Specialization in Image Processing.  
*Traineeship title:* “**Application of fixed Information Criteria to the Image Compression – JPEG 2000**” Dissertation passed on the 8<sup>th</sup> July, 2002.  
*Laboratory:* Signal, Image and Communications (SIC)  
*Supervisor:* Pr. Christian Olivier and François Marmoiton.  
*Keywords:* Information Criteria, Image Compression, Coding source, Quantification, DCT.
- 1998 – 2000** **DEA** Hadj Lakhdar University, Batna, Algeria  
Postgraduate Degree on Electronics. Specialization in Industrial Control.
- 1994-1997** **State Engineering Degree** Hadj Lakhdar University, Batna, Algeria  
A three years specialization in Electronics, including Industrial Control as my main field of study.  
*Engineering Project title:* “**Static Environment Modelling for a Moving Robot (Automated Guided Vehicle)**” Dissertation passed on the 28<sup>th</sup> October 1997.  
*Supervisor:* Dr. Ahmed Louchene  
*Keywords:* Environment Modelling, Artificial Vision.
- 1992 – 1994** **State DEUG Degree** Oum El Bouaghi University, Algeria  
A two years study of Mathematics & Physics.
- 1992** “**Baccalauréat**” High School Hadj Belkacem, Ain-beida, Algeria  
Secondary school diploma. Specialization in Mathematics.

## EMPLOYMENT & PROFESSIONAL EXPERIENCE

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- 2005 – 2006**    **Part time Teaching Assistant (ATER)**    Mathematics & Data Processing Department, Strasbourg.  
▪ **Systems:** Thirst year Licence.  
▪ **Algorithmic and programming:** Second year Licence.  
▪ **C++ programming:** Thirst year Licence.
- 2002 – 2005**    **Lecturer (Moniteur)**    Louis Pasteur University, Strasbourg, France  
▪ **Algorithmic and programming:** For students in first year DEUG MIAS (Mathematics, Data Processing & Applications to Sciences) in the Mathematic and Data Processing Department.  
▪ **Algorithmic and programming in C:** For students in first year DEUG STPI (Sciences & Techniques for Engineer) of the IPST.
- 1998 – 2000**    **Maintenance Engineer**    SATO Company, Oum El Bouaghi, Algeria  
Maintenance & networks installation.

## SOFTWARE SKILLS

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<b>Operating systems</b>	Linux, Unix (HP-UX), Windows.
<b>Computer Languages</b>	Good level: x86 assembly, High level: C, C++/Java, Matlab, CAO (Catia Dassault), PAO, Bash, Caml, Html.
<b>Networks</b>	Local network (LAN), TCP/IP, Web development (html, Dreamweaver, etc.)
<b>Theoretical Knowledge</b>	Signal and Image processing, Automatic Control, Electronics.
<b>Other</b>	Good knowledge <b>L<sup>A</sup>T<sub>E</sub>X</b> , MS-Office, Automated Programming, Integer System, etc.

## LANGUAGES

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Arabic	fluent (mother tongue)
French	fluent
English	fluent (written fluent, reading fluent, spoken intermediate), TOEIC, Communication Skills in Sc. Eng
Deutsch	beginner

## GRANTS & AWARDS

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- 2002-2005**    EGIDE Scholarship from the “Louis Pasteur University” for postgraduate studies
- 1997**    Thirst prize for the state Engineering Degree

## REFERENCES

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- 1. Prof. Ernest Hrsich.** Louis Pasteur University, ENSPS, LSIIT.  
Bd Sébastein Brant, BP 10413, 67412-Illkirch, France.  
*Phone : (+33) 390 244 492. Fax : (+33) 390 244 497. E-Mail: ernest.hirsch@ensps.u-strasbg.fr*
- 2. Prof. Jack-Gérard Postaire.** University of Science of Technologies of Lille.  
Bâtement P2, Bureau 205, IUTA (GMP), Cité scientifique. 59655 Villeuneuve d’Ascq Cedex, France.  
*Phone : (+33) 320 434 288. Fax : (+33) 390 436 567. E-Mail: Jack-Gerard.Postaire@univ-lille1.fr*

## ASSOCIATIVE WORK

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- Member of the European Association for signal, Speech and Image Processing (EURASIP).
- Member of the Alsace Association of PhDs Student and PhDs (ADDAL) – Strasbourg (France).
- Member of the Socialist Party (PS) –France.

## AUTHER EDUCATIONS

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- Practicum Training in Teaching Pedagogy (Alsace Center of Initiation to the Higher Education).
- Thesis New Chapter (TNC), Scientific and Methodological Thesis Interest (ABG-ULP).
- Medical Training to the First Help (FAPS), Illkirch Center of Traumatology (CTO -Strasbourg - France).

## PUBLICATIONS

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### 1. Articles in Refereed Journals

1. A. Lallement, **R. Khemmar**, and E. Hirsch. Automated Delineation of Regions of Interest Through Adaptive Segmentation and Interpretation of Images in view of Dimensional Evaluation of Manufactured Parts. *Journal of Electronic Imaging (JEI)*, Vol. 13(3), pp. 462-473, July 2004.

### 2. Articles in International Conference Proceedings

1. **R. Khemmar**, A. Lallement, and E. Hirsch. Parameter Setting Through Design of Experiments for the Automated Delineation of Regions of Interest. XII European Signal Processing Conference, EUSIPCO (2004), Vienne (Austria), pp. 1135-1138, September 6-10, 2004.
2. **R. Khemmar**, A. Lallement, and E. Hirsch. Design of an Intelligent Self-Reasoning System for the Automated Vision-based Evaluation of Manufactured Parts. Proceedings of QCAV 2005, 7<sup>th</sup> International Conference on Quality Control by Artificial Vision, QCAV (2005), Nagoya (Japan), pp. 241-246, May 18-20, 2005.
3. **R. Khemmar**, A. Lallement, and E. Hirsch. Steps Towards an Intelligent Self-reasoning System for the Automated Vision-based Evaluation of Manufactured Parts. 2<sup>nd</sup> Workshop on Applications of Computer Vision, ACV'06, Graz (Austria), May 12, 2006.

### 3. Articles in National Conference Proceedings

1. **R. Khemmar**, A. Lallement, and E. Hirsch. Système de planification intelligent dédié à l'inspection 3D de pièces manufacturées. ORASIS2005, journées francophones des jeunes chercheurs en vision par ordinateur à Fournol (Clermont-Ferrand), France, Proceedings sur cd-rom, article N°17, du 23 au 27 mai 2005..

### 4. Articles in Unrefereed Publications

1. **Redouane Khemmar**. Coopération contours surfaces. Application à l'extraction contrôlée d'indices images et à la reconstruction 3D. In *Journée Posters de l'École Doctorale des Sciences Pour l'Ingénieur (SPI)*, Illkirch, the 25<sup>th</sup> Septembre, 2003.
2. **Redouane Khemmar**, A. Beya FAR, Alex Lallement and Ernest Hirsch. Intelligent Approaches for the Computer Vision an its Applications. In *Réva2: Reached Reality*, January 29, 2003. Strasbourg.