

CHASSAT Fabrice

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Born the 25th November 1973 in Evry, Essonne France
Military duty free, car licence, single without children.

PHD OF JOSEPH FOURIER UNIVERSITY (Grenoble FRANCE) ENGINEER in COMPUTER and ELECTRONIC SCIENCES

Competences:

Physical science:

Solid and fluids mechanics, geometrical and undulating optic, acoustical, electromagnetism, oscillation, semiconductor principles.

Mathematics:

Fourier and Laplace transform, linear algebra, matrices, minimization and optimization processes, discreet systems.

Electronic:

Actives and passive analogical and numerical components, power, H.F., hyper frequency, Surface-mounted Component, notions of electromagnetic compatibility.

Instrumentation and Automatism:

Sensors, discreet and continue asserving systems, signal detection and estimation theory, image processing, linear filtering.

Computer science:

Operating Systems : MS DOS, WINDOWS (3.x, NT, 95), UNIX.

Language : C, MS Visual C++, Pascal, Assembly 80x86, Micro-controlling device MC68HC11.

Language :

Spanish : fluent; English : fluent; German : read.

Scientific publications and intervention:

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| January 2003. | Takeshi Asahi, Alfredo Lopez, Fabrice Chassat: Continuous Model of Irregular Sampled Data using Multilevel B-Splines submitted in 2003 International Conference on Image Processing <i>Barcelona, Spain.</i> |
| December 2002. | Loïc Forest, Jaime San Martín, Fernando Padilla, Fabrice Chassat, Jacques Demongeot, Cellular modeling of secondary radial growth in conifer trees: Application to <i>Pinus radiata</i>. Submitted for publication in journal of theoretical biology |
| August 2001 | Fabrice Chassat. Lecture: Medical Imagery
<i>Clinica Alemana, Santiago, Chile</i> |
| July 2001 | Fabrice Chassat, lecture: Computer assisted Orthopedy and medical image processing
<i>Clinica Indisa, Santiago, Chile</i> |
| June 2001 | Fabrice Chassat, lecture: 3D information treatment for surgery (localization, 2.5D echography and medical image registration)
<i>Centro de Modelamiento Matemático –Universidad de Chile , Santiago, Chile.</i> |
| June 2001 | Fabrice Chassat, lecture: Computer Assisted Surgery
<i>Departamento Ingeniería Eléctrica y de Imágenes –Universidad de Chile , Santiago, Chile</i> |
| May (29) 2002. | Fabrice Chassat, lecture in the First Journey of Medicine and Information Technology in Chile, South-America : Development of Models for Image fusion and Used of a 6D Localizer : Tools for Help Diagnostic and Surgical Procedure
<i>REUNA, Santiago, Chile.</i> |
| January 2001. | Sebastien Schmerber, Fabrice Chassat, Accuracy Evaluation of CAS System : Laboratory Protocol and Results on 6D Localizers, First Clinical Experiences in Otorhinolarygology
Computer Aided Surgery, Vol 6, pp1-13. |

April (9-10) 1999. Fabrice Chassat, lecture in the First European Symposium on Computer Aided Surgery in Otorhinolaryngology : **Laboratory Accuracy Comparison Of Different Coordinates Measuring Systems for CAS.**
Mainz, Germany.

October 1998 Fabrice Chassat, Stéphane Lavallée, **An experimental protocol for accuracy evaluation of 6D localizers for computer-assisted surgery : Application to four optical localizers.** In **proceedings of the first Medical Image and Computer-Assisted Intervention**, proceedings of MICCAI98', Lectures Notes in Computer Science vol 1496.

Professional experiences:

From June 2001 Post Doctoral position in the Centro de Modelamiento Matematico, **call for offer project proposition and technical chief position of applied computer assisted project for medicine**
Centro de Modelamiento Matematico –Universidad de Chile, Santiago, Chile

September 2001 - September 2002 **Co-direction of master student** Loïc Forest on cellular modeling (**Cellular modelling of secondary radial growth in conifer tree**), and one **engineer student** Cyril Fernet in computation (**DICOM 3.0, norms and functionality**)
Centro de Modelamiento Matematico –Universidad de Chile, Santiago, Chile

November 2001 - February 2002 Dedicated research engineer in IM2 investigation center (CODELCO) study of **image processing for digitalized analyze of copper cathodes**
Centro de Modelamiento Matematico – Universidad de Chile, Santiago, Chile

October 1997 - March 2001. **PhD thesis** in the laboratory of Cognition, Imaging and Modeling Techniques (T.I.M.C.), Computer Assisted Surgery team (CAS) **study modeling and conception of a localizing system (passive stereovision) in six dimensions for surgery.**
Joseph Fourier University of Grenoble, Isère France.

October 1997 - March 2001. **Computer science teaching** in several Universities (**Pascal, MSOffice, Java, C, Basic**).
Joseph Fourier University, Pierre Mendes France University, IUT GTHE, Grenoble, Isère France.

April to September 1997. Training period of third year engineering school (ISTG 3i) and Master diploma in T.I.M.C. laboratory, team CAS on the study of a **localization system in six dimensions by relative measures of directivity** and implementation in optical technology.
Medicine Faculty of Grenoble, Isère.

Year 1996/1997. **Study and development** in a third year project (3i) of a 432Mhz **PLL oscillator** and **conception** of a satellite **receptor in the 10.8 12 Ghz frequency domain** in the **Hyper frequency and guided Optic** laboratory in Grenoble.
Institut des Sciences et Techniques de Grenoble (I.S.T.G.) 3i, Isère.

May, June and July 1996. Training period of second year engineering school (3i) in T.I.M.C. team CAS on a **localizing system in six dimensions by LASER scanning.**
Medicine Faculty of Grenoble, Isère.

Year 1995/1996. **Study and development** in a second year project (3i) of an **emitter/receiver at 457khz** for avalanches victims (A.R.V.A.).
Institut des Sciences et Techniques de Grenoble (I.S.T.G.) 3i, Isère.

Education:

25-29 October 1999. Technalytics Intensive course on **INS and GPS integrated navigations systems.**
Paris, France.

13-21 June 1998. Third **IEEE EMBS summer school on biomedical imaging.**
Île de Berder, Bretagne.

1994 - 1997. **Engineering** school in **Computer science and instrumentation** (3i). Graduate with mention
I.S.T.G., Isère.

1994 - 1997. **Master Diploma in Modelization and Instrumentation in Medicine and Biology** specialization in **Computer Assisted Surgery (CAS)**. Graduate with mention in second place
Medicine Faculty of Grenoble, Isère.

Personal interests :

Mountain

Alpinism, Mountain climbing and free skiing, snow boarding.

Music

Violin, Guitar.

Animated Cartoon and comics, electronic.