

Samuel Boudet

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PHD STUDENT

Medical signal and image processing

Single, 25 years old
Clean driving license



Profile

Motivated for all opportunity concerning research on signal and image processing, applied to medicine

Thanks to my education of applied mathematics and data processing, I have a strong ability to model and analyse. During the last years, my work in the medical field has given me the possibility to apply my knowledge. My interest for science and innovation leads me to continue research on private or public field.

Mobility: Europe, Japan, United States

Availability: December 2008

Education

2005 - 2007

PhD student at HEI (Lille, France) in collaboration with the private hospitals St Vincent and St Philibert. Design of **automatic artifacts filtering methods on EEG recordings**. Work also used on Brain Computer Interfaces for **the emphasizing of evoked potentials on the P300 speller**.

2002-2005 and 2004-2005

INSA of Rouen (France)
(National Institute of Applied Sciences)
Mathematic Engineering department

Research Master
Fundamental and applied mathematics

Rouen University (France)

- **Signal Processing**
- **Image Processing**
- **Probability/Statistics**
- **Numerical analyze**
- **Optimization**
- **Stochastic**
- **Medical imaging**
- **Optimization**

2000 - 2002

First cycle in the INSA of Rouen

- **Physic** : electronic, thermodynamic, mechanic, electromagnetism
- **Chemistry**
- **Mathematic/Data processing**
- **Human sciences** : Communication, languages

1999 - 2000

French baccalaureate with honors with specialization natural sciences and mathematics

Languages

French Native speaker

English Fluent (Toeic 815)

Spanish Medium level

Japanese Basics

<p>Work experiences</p> <p><i>January – June 2008</i></p> <p><i>October 2004-August 2005</i></p> <p><i>June - October 2004</i></p> <p><i>July - August 2003</i></p> <p><i>July 2000</i></p>	<ul style="list-style-type: none"> • Teaching activity: Practical session of instrumentation for biomedical engineer and data mining (28h). <i>Hautes Etudes d'Ingénieur (Lille)</i> • Master thesis on the multimodal MRI registration and the creation of a statistical model to localize brain functional areas thanks to injured patient images. <i>Rouen Hospital center in collaboration with the Pitié-Salpêtrière hospital center (Paris).</i> • Design and development of software to manage a wireless electrode system (C#). <i>Digestive physiology laboratory of Broussais Hospital (Paris).</i> • Design and development of a spatio-temporal image surface detection program (Matlab and Visual C++). <i>Digestive physiology laboratory of Broussais Hospital (Paris).</i> • Design and development of a website for the painter Michèle Ratel, http://www.mratel.fr (HTML, Flash, PHP)
<p>Research</p> <p>Journal article</p> <p>International conferences</p> <p>French conference</p> <p>Reviewer</p>	<ul style="list-style-type: none"> • S. Boudet, L. Peyrodie, P. Gallois, and C. Vasseur, Filtering by Optimal Projection and application to automatic artifact removal from EEG, accepted to <i>Signal Processing</i>, Special issue on BSS/ICA (2007) • S. Boudet, L. Peyrodie, P. Gallois, and C. Vasseur, A robust method to filter various types of artifacts on long duration EEG recordings, <i>accepted to 2nd International Conference IEEE-ICBBE</i> (2008) • S. Boudet, L. Peyrodie, P. Gallois, and C. Vasseur, A global approach for automatic artifact removal for standard EEG record, <i>28th Annual International Conference of the IEEE-EMBS</i> (2006), 5719–5722 • S. Boudet, L. Peyrodie, P. Gallois, and C. Vasseur, Mise en évidence des potentiels évoqués par CSP pour le dispositif d'interface P300 Speller, <i>21th conference GRETSI</i> (2007), 621–624 <p>For 3 journal articles in <i>Signal Processing</i> and for an article in the <i>28th Annual International Conference of the IEEE-EMBS</i> (2006)</p>
<p>Data processing</p> <p>Operating Systems</p> <p>Programming</p> <p>Other</p>	<p>WINDOWS, UNIX, LINUX</p> <p>Advanced level on C/C++, Matlab Visual Basic, C#, Java and Fortran 77 <i>Programming in Basic since 13 years old.</i></p> <p>Mathematic (Maple, Mathematica), Office software (LateX, Office), Modeling (UML), Network (Able to manage a laboratory network), Data base (Access, SQL), Website designing (HTML, PHP, Flash), Automatism (Labview)</p>
<p>Activities</p> <p>Arts</p> <p>Sports</p>	<p>Piano</p> <p>Social dance, Judo, roller</p>