

# SebastienCampion

Research Engineer

## contact

15, place de la Mairie  
35250 Saint-Germain  
sur Ille  
France

+0 (33) 6 99 40 49 23  
+0 (33) 9 72 32 60 71

seb@scamp.fr  
<http://scamp.fr>

## languages

french mother tongue  
english & spanish

## skills

♥ Python, Linux  
Git, Cython, C, C++,  
Scientific Computing,  
Machine Learning,  
Java, Javascript, PHP,  
HTML5  
...

## education

1999–2002 **Master's degree in Engineering** of Computer Science and Telecommunications  
ESIR, University of Rennes 1, France  
Specialization in language and computer system.

## experience

- 2007–Now **INRIA** Rennes, France  
Research Engineer in a public science and technology institution, I'm working mainly for the TEXMEX team. Our scientific topics are efficient exploitation, indexing, navigation, and access of very large multimedia databases.  
TEXMEX activities :
- Managing our platform for indexing multimedia contents
    - Near 200TB of multimedia data
    - Large memory servers (up to 256GB of RAM)
    - 10GB/s Network
    - Local computing cluster IGRIDA (1200 cores) contributions
    - Digital TV and Radio capture and analyzes (MPEG2 / IP Multicast)
  - Coarse-grain distributed computing (Sun Grid Engine / OAR)
  - Contributing to scientific experimentations
  - Developing and improving scientific prototypes
  - Elaborating corpora / ground-truth for experimentation evaluations
  - Publishing demo and online web services <http://texmix.irisa.fr>
- National activities :
- Technical director for the INRIA Forge
    - A million of hits per month
    - 14 000 registered users
    - 4 300 hosted projects
    - 1 TB of data
    - 3 x Debian/VMWare OS + NetApp NFS
  - Trainings:
    - *Multimedia machine learning tutorials* for master degrees students
    - *Software development process* for public institute lawyers managed by IEEPI (European intellectual property institute)
- 2002–2007 **Orange Labs** (formerly France Telecom R&D) Rennes, France  
Junior Project Manager for TV/VOD metadata management networks
- Project on metadata aggregation service uses as repos for multimedia contents distributed on Orange's networks (IP, ADSL, Mobile)
  - Mobile TV project: Specification and development of a electronic service guide for mobile terminals[1] through an experimentation handled to DVB-H (Digital Video Broadcasting standard).
  - Development of TV/VOD portal access by Orange ADSL TV Set Top Boxes.
- 2001 **Thomson Grass Valley** Rennes, France  
*Internship (3 months)* Development of a web monitoring tool which centralize logs generated by various audiovisual appliances (encoder, multiplexer, decoder, ...)

## interests

**professional:** digital hacks,, large scale, geopolitics, web design, software design.

**personal:** family life, cooking, piano, sailing.

## publications

### article in peer-reviewed journal

- [1] Service Platform for Converged Interactive Broadband Broadcast and Cellular Wireless  
F. Allamandri, S. Campion, A. Centonza, A. Chernilov, J.P. Cosmas, A. Duffy, D. Garrec, M. Guiraudou, K. Krishnapillai, T. Levesque, B. Mazieres, R. Mies, T. Owens, M. Re, E. Tseklevs, Lizhi Zheng  
Broadcasting, IEEE Transactions on 53.1 (2007) pp. 200–211. 2007

### international peer-reviewed conferences/proceedings

- [3] MODIS: an audio motif discovery software  
Laurence Catanese, Nathan Souviraa-Labastie, Bingqing Qu, Sébastien Campion, Emmanuel Gravier, Frédéric Bimbot  
*InterSpeech*, 2013
- [2] AVSST: an Automatic Video Stream Structuring Tool  
Ibrahim Zein Al Abidin, Patrick Gros, Sébastien Campion  
*NEM SUMMIT*, 2010, Barcelona, Espagne

## patents

- [4] Isabelle Amonou, Christian Bertin, Sébastien Campion. “Procédé d’enregistrement, avec mise à jour, de contenus audiovisuels à diffusion programmée”. Patent EP1441527 (FR). 2003. URL: <https://www.google.com/patents/EP1441527B1>.
- [5] Isabelle Amonou, Christian Bertin, Sébastien Campion. “Procédé d’enregistrement thématique de contenus numériques à diffusion programmée”. Patent EP1441526 (FR). 2003. URL: <https://www.google.com/patents/EP1441526A1>.