

# Curriculum Vitae

**Aleksandr Setkov, PhD student**

## CONTACT INFORMATION:

Paris-Sud XI University  
Doctoral School of Informatics,  
Computer Science Laboratory for Mechanics and Engineering Sciences (LIMSI)  
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## AREA OF INTERESTS:

Image processing, Computer Vision, Spatial Augmented Reality

## EDUCATION:

- 2012 to present **PhD research**  
Paris-Sud XI University  
Doctoral School of Informatics,  
Computer Science Laboratory for Mechanics and Engineering Sciences  
(LIMSI), France
- *Ivora (Image and Computer Vision for Augmented Reality): Color invariance and correspondences for the definition of a camera/video-projector system*
- Advisers: Christian Jacquemin, Michèle Gouiffès
- 2012 to present **EIT ICT Labs Doctoral School**
- 2010-2012 **M.Sc. studies** GPA: 5.0/5  
State University of Aerospace Instrumentation (SUAI), Saint-Petersburg,  
Russia
- *A fast disparity estimation method*
- Adviser: Alexey Syschikov
- 2006-2010 **B.Sc. studies** GPA: 5.0/5  
SUAI, Saint-Petersburg, Russia
- *Study of the PnP-based algorithm for the SpaceWire Network using simulation*
- Adviser: Elene Suvorova

## PROFESSIONAL EXPERIENCE:

- 2012 to 2013 Doctoral mission: Art-science project “La lumière ne s’arrête pas là”
- *Checkerboard points detection for robust camera and projector calibration*
  - *3D reconstruction by structured-light methods*
- 2010 to 2012 Undergraduate intern  
Intel Labs, Saint-Petersburg, Russia

- *Implementation of video-processing algorithms on GPU and proprietary Intel Platforms*
- *R&D work in the area of Stereo Matching*
- *R&D work in the area of low-complexity hand tracking systems*

2010-2012 Embedded Networks Engineer  
 Institute of High-Performance Computing and Network Technologies,  
 SUAI, Saint-Petersburg

- *Testing of SpaceWire routers software*
- *Development of the PnP algorithm for SpaceWire Networks*

### **TEACHING:**

2013

- C language/Algorithms – tutored and practical classes  
 Polytech'Paris Sud, Dept. of Informatics, 3rd year of engineering studies
- C++ language – practical classes  
 Polytech'Paris Sud, Dept. of Informatics, 4rd year of engineering studies

### **OTHER INFORMATION:**

2014 6-months research stay at Computer Vision Center at Universitat Autònoma, Barcelona, Spain under the supervision of Maria Vanrell and Ramon Baldrich

2013 Participation to VISION Understanding Machine (VISUM) intelligence summer school, Porto, Portugal

2012 EIT ICT Labs post-graduate course Opportunity Recognition and Entrepreneurial Boot Camp, Helsinki, Finland

2012 Participation to Vision and Sports Summer School, Prague, The Czech Republic

2009 Internship at ESIGELEC high school Rouen, France

### **PUBLICATIONS:**

“Color Invariant Feature Matching For Image Geometric Correction”, Proc. 6th Mirage 2013, Berlin, Germany, June 2013.

“Graph-Cut run-time reduction methods for stereo matching”, Saint-Petersburg State University of Aerospace Instrumentation research conference, 2012, in Russian

"Matching quality investigation of Motion Estimation Algorithms", 9th Conference of Open Innovations Community FRUCT, 2011

“Plug'n'Play technology in SpaceWire network”, 7th Conference of Open Innovations Community FRUCT, 2010

### **SPOKEN LANGUAGES:**

Russian (Native), English (Professional), French (Professional), Spanish (Professional), Italian (Basic), Catalan (Basic)