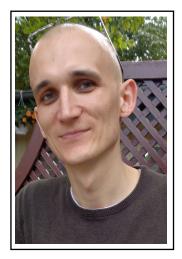
# CURRICULUM VITAE

# PERSONAL INFORMATION

Name E-Mail Web Page Nationality KACPER, PLUTA kacper.pluta@esiee.fr perso.esiee.fr/~plutak Polish



#### **PROFESSION**

⊳ Period

 $\circ \ \mathsf{Employer}$ 

o Position

Main Responsibilities

Contract Type

⊳ Period

Employer

o Position

Main Responsibilities

Contract Type

⊳ Period

Employer

Position

Main Responsibilities

Contract Type

2017

University Paris-Est Marne-la-Vallée

Attaché Temporaire d'Enseignement et de Recherche

Research and teaching

Full time, Determinate duration

2012-2013

Technical University of Łódź

Oracle (PL/SQL) and Delphi developer

Development and maintenance of internal systems

Full time, Determinate duration

2010-2012

Sanitary-Epidemiological Office in Ostrów Wielkopolski

IT administrator

Maintenance of the internal IT infrastructure

Full time, Indeterminate duration

### **EDUCATION**

⊳ Period

Acquired Qualifications

Institution

o Thesis Subject

Supervisors

⊳ Period

Acquired Qualifications

Institution

o Program

o Track

o Comments

⊳ Period

Acquired Qualifications

o Institution

Track

Comments

2014-2017

Ph.D. in Computer Science

University Paris-Est

Rigid Motions on Discrete Spaces

Yukiko KENMOCHI and Pascal ROMON

2013-2014

Master in Computer Science

University Paris-Est Marne-la-Vallée

Labex Bézout - International track in Computer Science and Maths

Signal, Image, Synthèse

Obtained with honors (avec mention très bien)

2009-2013

Bachelor in Computer Science

University of Computer Sciences and Skills in Łódź

Programming and Databases

Several scholarships of Polish ministry of higher education for the best

students

# **PUBLICATIONS**

⊳ Journal	Domej G., Bouedeau C., Lenti L., Pluta K.: Mean Landslide Geometries Inferred From a Global Database of Earthquake- and Non-earthquake-Triggered Landslides. <i>Italian Journal of Engineering Geology and Environment</i> , 2017, vol. 2, pp. 87–108, doi:10.4408/IJEGE.2017-02.O-05
⊳ Journal	Pluta K., T. Roussillon, D. Cœurjolly, P. Romon, Y. Kenmochi, V. Ostromoukhov: Characterization of bijective digitized rotations on the hexagonal grid. To Appear in <i>Journal of Mathematical Imaging and Vision</i> , doi:10.1007/s10851-018-0785-1
⊳ Journal	Pluta K., Romon P., Kenmochi Y., Passat N.: Bijective Digitized Rigid Motions on Subsets of the Plane. <i>Journal of Mathematical Imaging and Vision</i> , 2017, vol. 59(1), pp. 84–105, doi:10.1007/s10851-017-0706-8
⊳ Journal	Pluta K., Janaszewski M., Postolski M.: New Algorithm for Modeling of Bronchial Trees. <i>Image Processing &amp; Communications</i> , 2012, vol. 17(4), pp. 179-190, doi:10.2478/v10248-012-0045-8
⊳ Conference Proceedings	Pluta K., Romon P., Kenmochi Y., Passat N.: Honeycomb Geometry: Rigid Motions on the Hexagonal Grid. <i>Lecture Notes in Computer Science</i> . DGCI, 2017, vol. 10502, pp. 33–45, doi:10.1007/978-3-319-66272-5_4
⊳ Conference Proceedings	Pluta K., Moroz G., Kenmochi Y., Romon P.: Quadric Arrangement in Classifying Rigid Motions of a 3D Digital Image. <i>Lecture Notes in Computer Science</i> . CASC, 2016, vol. 9890, pp. 426–443, doi:10.1007/978-3-319-45641-6_27
⊳ Conference Proceedings	Pluta K., Romon P., Kenmochi Y., Passat N.: Bijectivity Certification of 3D Digitized Rotations. <i>Lecture Notes in Computer Science</i> . CTIC, 2016, vol. 9667, pp. 30–41, doi:10.1007/978-3-319-39441-1_4
⊳ Conference Proceedings	Pluta K., Romon P., Kenmochi Y., Passat N.: Bijective Rigid Motions of the 2D Cartesian Grid. <i>Lecture Notes in Computer Science</i> . DGCI, 2016, vol. 9647, pp. 359–371, doi:10.1007/978-3-319-32360-2_28
⊳ Conference Proceedings	Pluta K., Postolski M., Janaszewski M.: Bronchial Tree Modeling Algorithms. <i>Science Bulletin of the College of Computer Science in Łódź</i> , SMiSKT, 2012, vol. 11(1), pp. 152–170
⊳ Technical Report	Pluta K., Kenmochi Y., Passat N., Talbot H., Romon P.: Topological Alterations of 3D Digital Images under Rigid Transformations. HAL, 2016, hal:hal-01333586
⊳ Abstract with Poster	Domej G., Bourdeau C., Lenti L., Pluta K.: A Global Database of Seismically and Non-seismically Triggered Landslides for 2D/3D Numerical Modeling, Poster session presented at European Geosciences Union, 2017
⊳ Bachelor Thesis	Pluta K.: Algorytmy Modelowania Geometrii Drzew Oskrzelowych w Przestrzeni 3D. University of Computer Science in Łódź, 2013
⊳ Technical Magazine	Pluta K.: Static Content Management Systems. Polish Edition of Linux+ Magazine, 2010
⊳ Technical Magazine	Pluta K.: Preview of eyeOS. Polish Edition of Linux+ Magazine, 2010

⊳ Technical Magazine	Pluta K.: Survey of antivirus software for Linux Desktops. <i>Polish Edition of Linux+ Magazine</i> , 2010
TALKS	
⊳ International Conference	Honeycomb Geometry: Rigid Motions on the Hexagonal Grid, DGCI, Vienna, 2017
⊳ International Conference	Quadrics Arrangement in Classifying Rigid Motions of a 3D Digital Image, CASC, Bucharest, 2016
⊳ International Conference	Bijectivity Certification of 3D Digitized Rotations, CTIC, Marseilles, 2016
⊳ International Conference	Bijective Rigid Motions of the 2D Cartesian Grid, DGCI, Nantes, 2016
⊳ Seminary	Quadrics Arrangement in Classifying Rigid Motions of a 3D Digital Image, INRIA, Nancy, 2016
⊳ National Working Group Day	Bijectivity Certification of 3D Digitized Rotations, Journée du GéoDis, Marseilles, 2016
⊳ National Working Group Day (Poster)	Bijective Rigid Motions of the 2D Cartesian Grid, Journée du GDR-IM, Villetaneuse, 2016
⊳ National Working Group Day	Bijective Rigid Motions of the 2D Cartesian Grid, Journée du GéoDis, Lyon, 2015
⊳ National Project Workshop	Local Characterization of Rigid Motions in 2D Cartesian Grid, KIDICO, Obernai, 2015
⊳ National Working Group Day	Topological Alterations of 3D Digital Images under Rigid Transformations, Journée du GéoDis, Reims, 2014
⊳ National Conference (Poster)	New Algorithm for Modeling of Bronchial Trees, SŁOK, Słok, 2012
⊳ National Conference	Bronchial Tree Modeling Algorithms, SMiSKT, Łódź, 2012
⊳ Doctoral School Students' Workshop	Bijectivity Certification of 3D Digitized Rotations, Noisy-le-Grand, 2016
⊳ Doctoral school Students' Workshop	Honeycomb Geometry: Rigid Motions on the Hexagonal Grid, Noisyle-Grand, 2017
TEACHING	
⊳ Labs (Bachelor 1)	Algorithmic and Programming 1, University Paris-Est Marne-la-Vallée, 36h, 2017/18, <b>head</b> : Antoine Meyer
⊳ Labs (Master 2)	Digital Geometry, University Paris-Est Marne-la-Vallée, 5h, 2017/18, with: Yukiko Kenmochi
⊳ Labs (Master 1)	Linux API, University Paris-Est Marne-la-Vallée, 24h, 2017/18, <b>head</b> :

Sylvain CHerrier

48h, 2017/18, head: Sylvain CHerrier

Object-Oriented Programming 1, University Paris-Est Marne-la-Vallée,

⊳ Labs (Master 1)

Workshop on C Programming, University Paris-Est Marne-la-Vallée, 4h, 2017/18

Introduction to Computational Geometry, ESIEE Paris, 16h, 2016/17, **head**: Nabil Mustafa

⊳ Labs (Master 2)

Digital Geometry, University Paris-Est Marne-la-Vallée, 5h, 2016/17, with: Yukiko Kenmochi

Object-Oriented Programming 1, University Paris-Est Marne-la-Vallée, 48h, 2016/17, **head**: Sylvain Cherrier

⊳ Project (Master 1)

Image Analysis and Synthesis, ESIEE Paris, Leading a group of 3 students for 8 weeks, 2015/16, **head**: Jean Cousty

Introduction to Computational Geometry, ESIEE Paris, 8h, 2015/16, **head**: Nabil Mustafa

Graphical Interface Programming, ESIEE Paris, 16h, 2015/16, **head**: Nabil Mustafa

Algorithms and Programming, University Paris-Est Marne-la-Vallée, 24h, 2014/15 Fall, **head**: Éric Laporte

## AWARDS

⊳ 2016

Software Award of Symposium on Geometric Processing for DGtal. Laureates (collective price, by alphabetical order): P.H. Cerdan, D. Cœurjolly, R. Denis, P. Gueth, B. Kerautret, J.-O. Lachaud, J. Levallois, K. Pluta, I. Sivignon, T. Roussillon

⊳ 2010

The first award in a competition which consisted of proposing a use of Hewlett-Packard virtualization technologies

#### LANGUAGES

MOTHER TONGUE OTHER LANGUAGES

#### **Polish**

English – professional (scientific) French – sufficient (professional context)

#### ABILITIES

PROGRAMMING LANGUAGES

C/C++, Maple, Wolfram Language, Delphi, Oracle (PL/SQL), Microsoft SQL (T-SQL and SQLJet), DB2 SQL, Python, CUDA, Java, Fortran 95, Shell scripts, XPath, VBA

PROGRAMMING LIBRARIES

Qt, SDL, ITK, VTK, libDGtal, libPink

CASE AND OTHER TOOLS

git, svn, Valgrind, GNU Debugger, Amira

OTHER KNOWN TECHNOLOGIES

XML, LaTeX, HTML, TiKZ, Asymptote

HOBBIES

developing DGtal, reading popular science magazines and books, biking, listening to music, cooking