

CURRICULUM VITAE

PERSONAL INFORMATION

Name
E-Mail
Web Page
Nationality

KACPER, PLUTA
kacper.pluta@esiee.fr
perso.esiee.fr/~plutak
Polish



PROFESSION

- ▷ 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

- ▷ Period
- Employer
- Position
- Main Responsibilities
- Contract Type

2012–2013

Technical University of Łódź
Oracle (PL/SQL) and Delphi developer
Development and maintenance of internal systems
Full time, Determinate duration

- ▷ Period
- Employer
- Position
- Main Responsibilities
- Contract Type

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
- Thesis Subject
- Supervisors

2014–2017

Ph.D. in Computer Science
University Paris-Est
Rigid Motions on Discrete Spaces
Yukiko KENMOCHI and Pascal ROMON

- ▷ Period
- Acquired Qualifications
- Institution
- Program
- Track
- Comments

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)

- ▷ Period
- Acquired Qualifications
- Institution
- Track
- Comments

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

Pluta K., T. Roussillon, D. Cœurjolly, P. Romon, Y. Kenmochi, V. Ostromoukhov: Characterization of bijective digitized rotations on the hexagonal grid. To Appear in *Journal of Mathematical Imaging and Vision*, 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. *Journal of Mathematical Imaging and Vision*, 2017, doi:10.1007/s10851-017-0706-8
- ▷ Journal

Pluta K., Janaszewski M., Postolski M.: New Algorithm for Modeling of Bronchial Trees. *Image Processing & Communications*, 2012, 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. *Lecture Notes in Computer Science*. 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. *Lecture Notes in Computer Science*. 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. *Lecture Notes in Computer Science*. 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. *Lecture Notes in Computer Science*. 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. *Science Bulletin of the College of Computer Science in Łódź*, SMiSKT, 2012, vol 11(1), pp. 152–170
- ▷ Working paper

Domej G., Bouedeau C., Lenti L., Pluta K.: A Global Database of Seismically and Non-seismically Triggered Landslides for 2D/3D Numerical Modeling. Submitted to *Italian Journal of Engineering Geology and Environment*
- ▷ 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. *Polish Edition of Linux+ Magazine*, 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

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

New Algorithm for Modeling of Bronchial Trees, SŁOK, Słok, 2012

- ▷ National Conference

Bronchial Tree Modeling Algorithms, MIŚ, 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, Noisy-le-Grand, 2017

TEACHING

- ▷ Labs (Bachelor 1)

Algorithmic and Programming 1, University Paris-Est Marne-la-Vallée, 36h, 2017/18, **head**: 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, **head**: Sylvain CHerrier

- ▷ Labs (Master 1)

Object-Oriented Programming 1, University Paris-Est Marne-la-Vallée, 48h, 2017/18, **head**: Sylvain CHerrier

- ▷ Labs (Master 1)

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

▷ Lectures & Labs (Master 1)	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
▷ Lectures & Labs (Master 1)	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
▷ Labs (Master 1)	Introduction to Computational Geometry, ESIEE Paris, 8h, 2015/16, head : Nabil Mustafa
▷ Lectures & Labs (Master 1)	Graphical Interface Programming, ESIEE Paris, 16h, 2015/16, head : Nabil Mustafa
▷ Labs (Bachelor 3)	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