

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

PhD 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., 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*, MIŚ, 2012, vol 11(1), pp. 152–170
- ▷ Working paper Pluta K., T. Roussillon, D. Cœurjolly, P. Romon, Y. Kenmochi, V. Ostromoukhov: Characterization of bijective digitized rotations on the hexagonal grid. Submitted to *Journal of Mathematical Imaging and Vision*, hal:hal-01540772
- ▷ 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, EGU, 2017
- ▷ 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 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

- ▷ Lectures & Labs for Master 1 Introduction to Computational Geometry, ESIEE Paris, 16h, 2017 Spring, **head**: Nabil Mustafa
- ▷ Labs for Master 2 Digital Geometry, University Paris-Est Marne-la-Vallée, 5h, 2016 Fall, **with**: Yukiko Kenmochi
- ▷ Lectures & Labs for Master 1 Object-Oriented Programming 1, University Paris-Est Marne-la-Vallée, 48h, 2016 Fall, **head**: Sylvain Cherrier
- ▷ Project for Master 1 Image Analysis and Synthesis, ESIEE Paris, Leading a group of 3 students for 8 weeks, 2015 Fall, **head**: Jean Cousty
- ▷ Labs for Master 1 Introduction to Computational Geometry, ESIEE Paris, 8h, 2015 Fall, **head**: Nabil Mustafa
- ▷ Lectures & Labs for Master 1 Graphical Interface Programming, ESIEE Paris, 16h, 2015 Fall, **head**: Nabil Mustafa
- ▷ Labs for Bachelor 3 Algorithms and Programming, University Paris-Est Marne-la-Vallée, 24h, 2014 Fall, **head**: Éric Laporte

AWARDS

▷ 2016

SGP Software award for DGtal

▷ 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 – basic

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