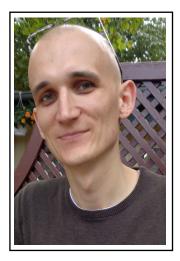
CURRICULUM VITAE

PERSONAL INFORMATION

Name E-Mail Web Page Nationality KACPER, PLUTA kacper.pluta@gmail.com copyme.github.io Polish



PROFESSION

⊳ Period

 $\circ \ Employer$

Position

Main Responsibilities

Contract Type

⊳ Period

Employer

o Position

Main Responsibilities

Contract Type

⊳ Period

o Employer

Position

o Main Responsibilities

o Contract Type

2018-present

Technion - Israel Institute of Technology

Postdoctoral fellow

Research

Full time, Determinate duration

2017-2018

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

EDUCATION

⊳ Period

Acquired Qualifications

Institution

o Thesis Subject

Supervisors

⊳ Period

Acquired Qualifications

Institution

o Program

Track

o 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)

⊳ Period

Acquired Qualifications

Institution

o Track

Comments

2009-2013

Bachelor (Polish engineer's degree) in Computer Science

University of Computer Sciences and Skills in Łódź

Programming and Databases

Several scholarships of the Polish ministry of higher education for the

best students

PUBLICATIONS

Dimension Estimations of Landslide Rupture Zones via Correlations of Characteristic Parameters. *Geosciences*, 2020, vol. 10(5), pp. 198– 221, doi:10.4408/10.3390/geosciences10050198 Domej G., Bouedeau C., Lenti L., Pluta K.: Mean Landslide Ge-ometries Inferred From a Global Database of Earthquake- and Non-earthquake-Triggered Landslides. Italian Journal of Engineering Geology and Environment, 2017, vol. 87-108, 2, pp. doi:10.4408/IJEGE.2017-02.O-05 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 Pluta K., Romon P., Kenmochi Y., Passat N.: Bijective Digitized Rigid Motions on Subsets of the Plane. Journal of Mathematical Imaging and Vision, 2017, vol. 59(1), pp. 84-105, doi:10.1007/s10851-017-0706-8 Pluta K., Janaszewski M., Postolski M.: New Algorithm for Modeling of Bronchial Trees. *Image Processing & Communications*, 2012, vol. 17(4), pp. 179-190, doi:10.2478/v10248-012-0045-8 Passat N., Kenmochi Y., Ngo P., Pluta K.: Rigid Motions in the Cubic grid: a Discussion on Topological Issues. Lecture Notes in Computer Science. DGCI, 2019, vol. 11414, pp. 127-140, doi:10.1007/978-3-030-14085-4_11 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 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 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 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 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 Pluta K., Kenmochi Y., Passat N., Talbot H., Romon P.: Topological Alterations of 3D Digital Images under Rigid Transformations. HAL, 2016, hal:hal-01333586

Domej G., Bouedeau C., Lenti L., Salvatore M., Pluta K.: Shape and

Domej G., Bourdeau C., Lenti L., Pluta K.: A Global Database of Seis-

mically and Non-seismically Triggered Landslides for 2D/3D Numerical Modeling, Poster session presented at European Geosciences Union,

2017

Abstract with Poster

⊳ 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. <i>Polish Edition of Linux+ Magazine</i> , 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				

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⊳ Project (Master 1)

Labs (Master 1)

▶ 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

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

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

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

⊳ 2010

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

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, CUDA

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