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Education

INRIA, University of Nice Sophia Antipolis

Sophia Antipolis, France

Jan. 2014 - exp. Nov. 2017

Ph.D. IN COMPUTER SCIENCE (COMPUTER VISION)

· Advisor: Francois Bremond, INRIA

· Reviewer: Matthieu Cord, University Pierre Marie Currie • Reviewer: Leonid Sigal, University of British Columbia

• Examinator: Jean-Marc Odobez, IDIAP

• President: Federic Precioso, University of Nice Sophia Antipolis

Poznan University of Technology M.Sc. in Computer Science and Engineering

Poznan, Poland

Feb. 2007 - Aug. 2009

Poznan University of Technology **B.S. IN COMPUTER SCIENCE AND ENGINEERING**

Poznan, Poland

Oct. 2004 - Feb. 2007

Experience

INRIA Sophia Antipolis, France

PHD STUDENT

Feb. 2014 - PRESENT

· Proposed, implemented and validated several methods for action recognition (multimodal RBG+D desriptor, Brownian Covariance, Spatio-Temporal layout for Fisher Vector) and action detection (Real time Fisher Vector representation),

Published 9 scientific papers,

• The code of the proposed methods was successfully transferred to Toyota.

Disney Research Pittsburgh, PA, USA

RESEARCH INTERNSHIP Jan. 2016 - Apr. 2016

· Supervisors: Peter Carr, Slawomir Bak,

- Proposed cross-view Fisher Vector representation for People Re-Identification,
- · Published 1 scientific paper,
- 1 patent request was filed.

INRIA Sophia Antipolis, France

RESEARCH INTERNSHIP

TEACHING ASSISTANT

Apr. 2013 - Sep. 2013

• Supervisor: François Bremond,

- Proposed multimodal RGB-D descriptor for action recognition,
- Published 1 scientific paper.

Wroclaw University of Technology

Wroclaw, Poland

· Teaching "Algorithms and Data Structures"

Apr. 2012 - Mar. 2013

· Teaching "Operating Systems"

Poznan University of Technology

Poznan, Poland

RESEARCH ENGINEER

Jan. 2010 - Apr. 2012

- BirdWatch project at Intelligent Decision Support System Laboratory,
- Implemented and validated bird species detection system for mobile devices (ARM),
- · Teaching "Software Engineering"
- Published 1 book chapter.

Skills

Programming Python, Matlab, Java, C/C++

Frameworks PyTroch, Scikit-Learn, Numpy, Pandas, Caffe, MatConvNet

Languages English (Fluent), French (Intermediate), Russian (Intermediate), German (Beginner), Polish (Native)

NOVEMBER 7, 2017 MICHAŁ KOPERSKI · RÉSUMÉ

Mentoring

MASTER STUDENTS

Srijan Das, co-advised by F. Bremond, Action Recognition
Killian Barrere, co-advised by F. Bremond, Action Recognition

INRIA INRIA

Professional activities

REFEREE AND REVIEWER

- IEEE Transactions on Multimedia
- · British Machine Vision Conference

Publications

JOURNAL ARTICLES

Online Recognition of Daily Activities by Color-Depth Sensing and Knowledge Models

Carlos Crispim-Junior, Alvaro Gomez Uria, Carola Strumia, Michal Koperski, Alexandra König, Farhood Negin, Serhan Cosar, Anh Tuan Nghiem, Duc Phu Chau, Guillaume Charpiat, Francois Bremond

Sensors vol. 17 (June 2017) p. 1528. 2017

CONFERENCE PROCEEDINGS

Groups Re-identification with Temporal Context

Michal Koperski, Slawomir Bak, Peter Carr

The 2017 ACM on International Conference on Multimedia Retrieval (ICMR), 2017, Bucharest, Romania

Action Recognition based on a mixture of RGB and Depth based skeleton

Das Srijan, Michal Koperski, Francois Bremond, Gianpiero Francesca

The 14th IEEE International Conference on Advanced Video and Signal Based Surveillance (AVSS), 2017

Semi-supervised understanding of complex activities from temporal concepts

Carlos Fernando Crispim-Junior, Michal Koperski, Serhan Cosar, Francois Bremond

The 13th IEEE International Conference on Advanced Video and Signal Based Surveillance (AVSS), 2016, Colorado Springs, United States

Modeling Spatial Layout of Features for Real World Scenario RGB-D Action Recognition

Michal Koperski, Francois Bremond

The 13th IEEE International Conference on Advanced Video and Signal Based Surveillance (AVSS), 2016, Colorado Springs, United States

A hybrid framework for online recognition of activities of daily living in real-world settings

Farhood F Negin, Serhan Cosar, Michal F Koperski, Carlos F Crispim-Junior, Konstantinos Avgerinakis, Francois F Bremond

The 13th IEEE International Conference on Advanced Video and Signal Based Surveillance (AVSS), 2016, Colorado springs, United States

Generating unsupervised models for online long-term daily living activity recognition

F. Negin, S. Cogar, F. Bremond, M. Koperski

2015 3rd IAPR Asian Conference on Pattern Recognition (ACPR), 2015

Minimizing hallucination in Histogram of Oriented Gradients

Javier Ortiz, Slawomir Bak, Michal Koperski, François Brémond

The 12th IEEE International Conference on Advanced Video and Signal-based (AVSS), 2015, Karlsruhe, Germany

Representing Visual Appearance by Video Brownian Covariance Descriptor for Human Action Recognition

Piotr Bilinski, Michal Koperski, Slawomir Bak, Francois Bremond

The 11th IEEE International Conference on Advanced Video and Signal-based (AVSS), 2014, Seoul, South Korea

3D trajectories for action recognition

M. Koperski, P. Bilinski, F. Bremond

The 21st IEEE International Conference on Image Processing (ICIP), 2014

PHD THESIS

Michal Koperski. "Human Action Recognition in Videos with Local Representation". PhD thesis. INRIA, University of Nice Sophia-Antipolis, Nov. 2017.

BOOK CHAPTERS

Jacek Jelonek Lukasz Kirchner. "Distributed standalone mobile data providers for BirdWatch system". In: NAKOM, 2011. ISBN: 978-83-89529-82-4.