Vedran Vukotić



Address:

ZIP and place:

Country: France

Nationality:

Croatian, Italian

Place and date of birth:

Zagreb, Croatia, xx.xx.1985.

GSM:

Email: vevukotic at gmail

CURRICULUM VITAE

EDUCATION

INRIA/IRISA Rennes and INSA Rennes

Rennes, France

PhD in Computer Science

Sept. 2017

Thesis: Deep Neural Architectures for Automatic Representation Learning From Multimedia Multimodal Data

Faculty of Electrical Engineering and Computing

Zagreb, Croatia

Master of Science in Computer Science, GPA: 4.347/5 **Thesis:** Deep Neural Networks for Image Classification

Jul. 2014

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Faculty of Electrical Engineering and Computing

Zagreb, Croatia

Bachelor of Computer Science, GPA: 3.788/5

Jul. 2012

Thesis: A Computer Vision Framework for Mobile Platforms

Faculty of Maritime Studies

Rijeka, Croatia

Master of Science in Nautical Studies and Maritime Transport Technology, GPA: 5/5

Oct. 2010

Thesis: Analysis of Static and Dynamic Transverse Ship Stability

PUBLICATIONS

Vedran Vukotić, Vivien Chappelier, Teddy Furon. "Are Classification Deep Neural Networks Good for Blind Image Watermarking?". Entropy, Volume 22, Issue 2, Feb. 2020

V. Vukotić, C. Raymond. "Mining Polysemous Triplets with Recurrent Neural Networks for Spoken Language Understanding". Interspeech. 2019, Graz, Austria, Sept. 2019

Vedran Vukotić, Vivien Chappelier, Teddy Furon. "Are Deep Neural Networks good for blind image watermarking?". IEEE International Workshop on Information Forensics and Security (WIFS) 2018. Hong Kong, China. Dec. 2018

V. Vukotić. "Deep neural architectures for automatic representation learning from multimedia multimodal data". PhD Thesis INSA Rennes. Sept. 2017

V. Vukotić, C. Raymond, G. Gravier. "A Crossmodal Approach to Multimodal Fusion in Video Hyperlinking". IEEE MultiMedia Special Issue: Vision and Language Integration Meets Multimedia Fusion. Apr. 2018

- V. Vukotić, S-L Pintea, C. Raymond, G. Gravier, J. C. van Gemert. "One-Step Time-Dependent Future Video Frame Prediction with a Convolutional Encoder-Decoder Neural Network", ICIAP 2017, Catania, Italy, Sept. 2017
- M. Dinarelli, V. Vukotić, C. Raymond. "Label-dependency coding in Simple Recurrent Networks for Spoken Spoken Language Understanding". Interspeech. 2017, Stockholm, Sweden, Aug. 2017
- V. Vukotić, C. Raymond, G. Gravier, "Generative Adversarial Networks for Multimodal Representation Learning in Video Hyperlinking", ICMR 2017, Bucharest, Romania, Jun. 2017
- R. Bois, V. Vukotić, A-R. Şimon, R. Sicre, C. Raymond, P. Sébillot, G. Gravier, "Exploiting Multimodality in Video Hyperlinking to Improve Target Diversity", International Conference on Multimedia Modeling 2017, Reykjavík, Iceland, Jan. 2017
- V. Vukotić, S-L. Pintea, C. Raymond, G. Gravier, J. Van Gemert, "One-Step Time-Dependent Future Video Frame Prediction with a Convolutional Encoder-Decoder Neural Network". Netherlands Conference on Computer Vision (NCCV) 2016, Lunteren, The Netherlands, Dec. 2016
- V. Vukotić, C. Raymond, G. Gravier, "Multimodal and Crossmodal Representation Learning from Texual and Visual Features with Bidirectional Deep Neural Networks for Video Hyperlinking", ACM workshop on Vision and Language Integration Meets Multimedia Fusion 2016, Amsterdam, The Netheerlands, Oct. 2016
- V. Vukotić, C. Raymond, G. Gravier, "A step beyond local observations with a dialog aware bidirectional GRU network for Spoken Language Understanding", Interspeech 2016, San Francisco, USA, Sept. 2016
- V. Vukotić C. Raymond, G. Gravier, "Bidirectional Joint Representation Learning with Symmetrical Deep Neural Networks for Multimodal and Crossmodal Applications", ICMR 2016, New York, USA, June 2016
- V. Vukotić, C. Raymond, G. Gravier, "Is it time to switch to Word Embedding and Recurrent Neural Networks for Spoken Language Understanding?", Interspeech 2015, Dresden, Germany, Sept. 2015
- V. Vukotić, J. Krapac, S. Šegvić, "Convolutional Neural Networks for Croatian Traffic Signs Recognition", CCVW 2014, Zagreb, Croatia, Sept. 2014
- V. Braut, M. Čuljak, V. Vukotić, S. Šegvić, "Estimating OD Matrices at Intersections in Airborne Video - a Pilot Study", MIPRO, Opatija, Croatia, May 2012

EMPLOYMENT

Lamark / IMATAG

Rennes, France

R&D Engineer / Researcher

Jan. 2018

image watermarking, deep neural networks for CBIMR, SLU, watermarking, etc.

INRIA/IRISA Rennes and INSA Rennes

Rennes, France

PhD Student

Oct. 2014 - Sept. 2017

deep neural architectures for automatic representation learning from multimedia multimodal data

TU Delft

Delft, The Netherlands Sept. 2016 – Dec. 2016

Visiting PhD Student

predicting motion from static images

INRIA/IRISA Rennes, France
Research Intern May. 2014 – Nov. 2014

• evaluation of local and hierarchical methods for feature democratization

Končar INEM Zagreb, Croatia

Software Development Intern

Jan. 2014 – May. 2014

• working on a mesh sensor network for monitoring and aggregating household utilities

Lappeenranta University of Technology

Lappeenranta, Finland

Software Development Intern

Summer 2013

• developing a serious game for mobile devices that aims at improving wellness at the workplace by teaching healthy habits

Septentrio Satellite Navigation

Leuven, Belgium

Software Development Intern

Summer 2012

- building system optimization
- static analysis deployment research

La Quinta Inn & Suites

Tampa, FL, USA

Laundry/Room Attendant

Summer 2009

- CCUSA applicant
- laundry, room cleaning and attending

Faculty of Maritime Studies

Rijeka, Croatia

Undergraduate Assistant – Computing and Electronic Communications

2006 - 2007

- helping students attending the course
- assisting during lectures and exams

Faculty of Maritime Studies

Rijeka, Croatia

Undergraduate Assistant – Mathematics

2005

- helping students attending the course
- holding Wolfram Mathematica laboratory exercises

Lošinjska Plovidba

Rijeka, Croatia

Deck Cadet/Working 3rd Officer

2003 - 2004

• navigation and cargo operations on board a Ro-Ro container vessel connecting European ports

HONORS & AWARDS

"Stanko Turk" award for the best diploma thesis in the field of the computer science 2014

Received Mali Lošinj city scholarship 2010

Received Croatian state scholarship for talented students 2005

Skills & Interest

Languages: Fluent English, Italian and Croatian, basic French

Interests: deep learning, multimedia, NLP, computer vision, machine learning, DIY