

University of Ljubljana
Faculty of Computer and
Information Science



Prospective Student Day

Informativni dan za doktorski študij

Doctoral Study Programme Computer and Information Science

Presented by Tomaž Curk and Danijel Skočaj



Why Become a Doctoral Student at FRI?

Successful Doctoral Students



dr. Mitja Trampuš, 2015

Google



dr. Jure Žbontar, 2016

Facebook



dr. Nejc Škoberne, 2013

CEO & Co-founder of Genialis

dr. Miha Štajdohar, 2012

CTO & Co-founder of Genialis



Asst. Prof. dr. Marinka Žitnik, 2015

Stanford University and UL FRI

Research

- Systems and networks
- Machine perception and multimedia
- Computational biology
- Software engineering and informatics
- Machine learning and artificial intelligence
- Theoretical computer science and mathematical methods

19
Laboratories

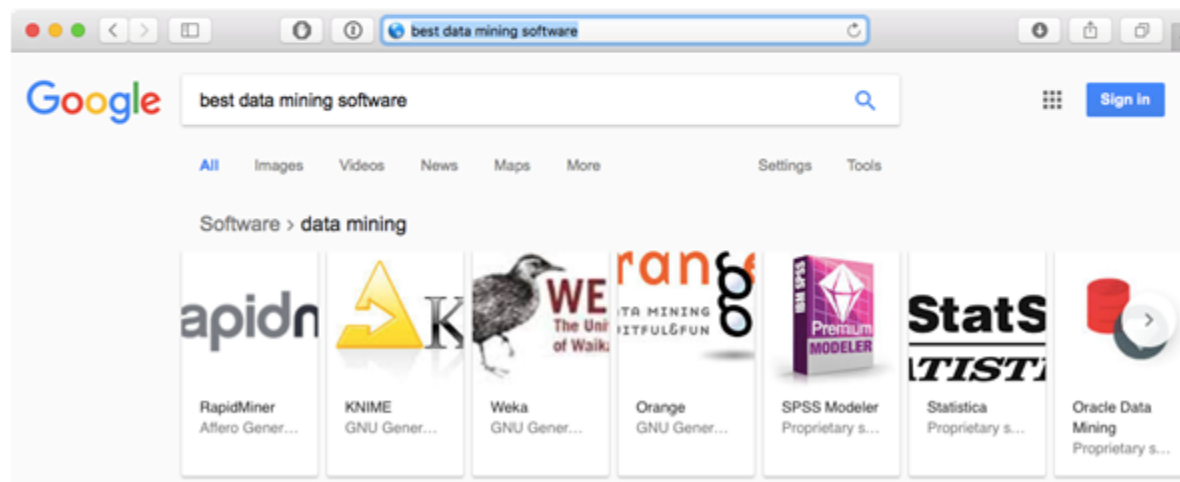
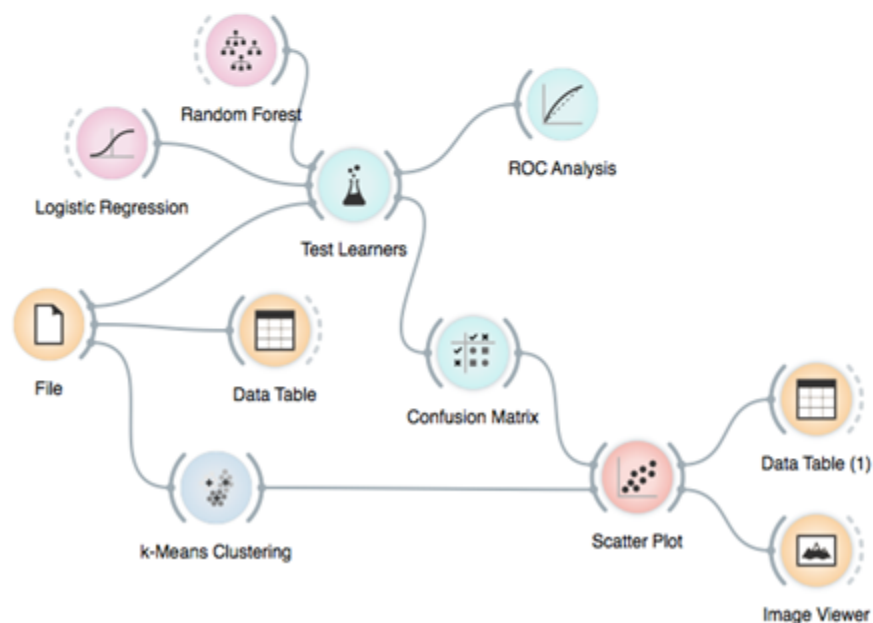
45
Advisors

<https://fri.uni-lj.si/en/doctoral-advisors>

Orange Data Mining

<http://orange.biolab.si>

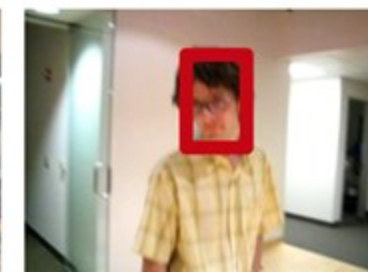
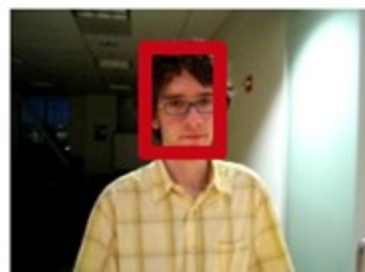
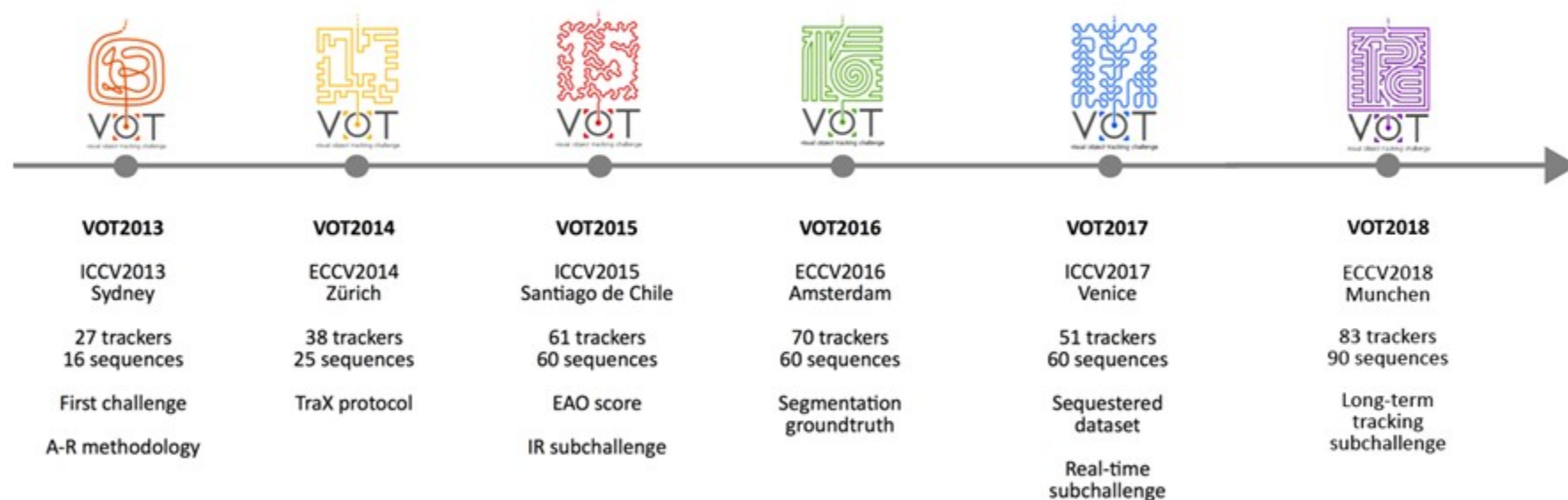
- ✓ 1,000 daily downloads
- ✓ 3,400 Youtube subscribers
- ✓ 400,000 views on Youtube



VOT – Visual Object Tracking initiative

<http://www.votchallenge.net>

- ✓ Workshop papers with 100+ authors
- ✓ Github
 - 130 stars
- ✓ Mailing list
 - 240 subscribers
- ✓ Support forum
 - 150 members





1st Year



2nd Year



3rd Year



4th Year



Elective Courses

2019/2020

- Incremental Learning from Data Streams
- Mathematics for Machine Learning
- Modern Cryptography and Computer Security
- Predictive Analytics for Structured Data
- Advanced Topics in Network Science
- Contemporary Approaches to Algorithm Design
- Heterogeneous Computing Platforms
- Approximate Arithmetic for Media Processing and (C)NNs

2020/2021

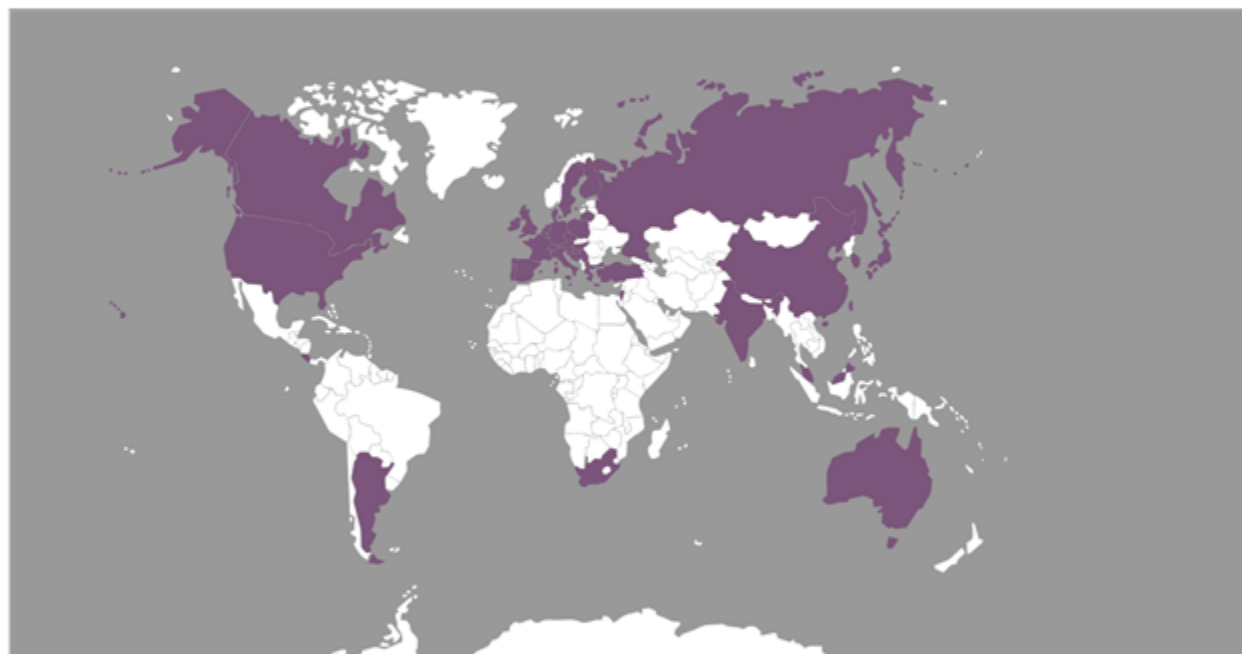
- Information System Integration Methods
- Advanced Algorithms for Search and Planning
- Machine Learning for Natural Language Processing
- Deep Learning for Computer Vision
- Selected Topics in Analysis of Sound Signals
- Selected Topics from Computer Graphics and Visualization
- Security Studies and Ethical Hacking

International Collaborations

Collaborations with world-renowned institutions:

- **Joint Research Centre of European Commission (Italy)**
– doctoral partnership on cybersecurity and biometrics;
- **The European Organization for Nuclear Research – CERN (Switzerland);**
- **Chinese Academy of Sciences (China)** – joint Chinese-Slovenian virtual laboratory for high performance computing;
- **Kyungpook National University (South Korea)** – joint research in computer vision and wireless computing and a double degree study;
- **University College London (UK)** – joint research in bioinformatics and mobile computing;
- **Baylor College of Medicine (USA)** – joint research in bioinformatics;
- **University of Birmingham (UK);**
- **Czech Technical University in Prague (Czech republic);**
- **Alpe-Adria University Klagenfurt (Austria)** – joint research in computer compilers and algorithmics;
- **University of Belgrade (Serbia)** – joint research in sport statistics and computational linguistics.

Internal fund for research and study visits abroad!



182 Total number of
collaborating institutions

A photograph of three young adults, two men and one woman, walking through a modern, brightly lit university hallway. They are dressed in casual attire and carrying backpacks. The hallway features large glass windows on the right side, offering a view of a cityscape. The floor is polished and reflects the overhead lights. The overall atmosphere is bright and open.

Open to Foreign Students

How to Apply for the Doctoral Programme?

Apply Online

Apply at eVŠ portal

<http://portal.evs.gov.si/prijava>

Master or pre-bologna
equivalent study programme

Important Dates

Application deadline is

3 June 2019

Enrolment will take place in
September 2019

Application Enclosures

- a well-structured CV
- a certified copy of your bachelor or master's degree
- a GPA certificate of exams and tutorials
- a motivation letter
- 2 recommendation letters
- advisor(s) preference



Open Positions and Scholarships

<https://fri.uni-lj.si/en/career-faculty>

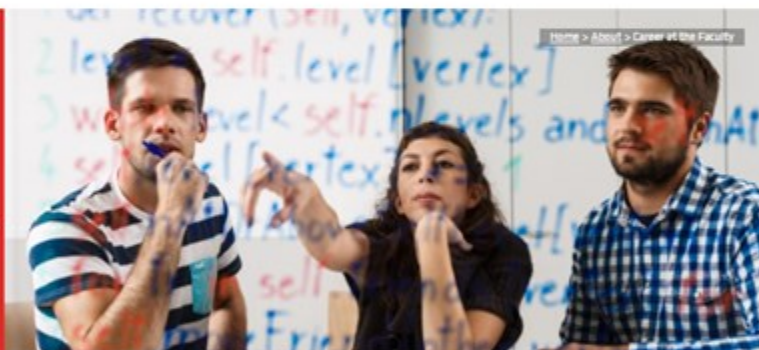
Facebook · Youtube

Library · Studis · E-classroom · Schedules · Intranet · Contact · SL



EDUCATION RESEARCH AFTER SCHOOL EVENTS ABOUT PROSPECTIVE STUDENTS

CAREER AT THE FACULTY



Research laboratories at the Faculty of Computer and Information Science are always open for enthusiastic students. To know more about research in a specific laboratory, feel free to contact them. Current open research positions are listed below.

RESEARCH POSITIONS

Candidates for doctoral study, current doctoral students and postdoctoral researchers can apply for positions currently available in research laboratories listed below:

Bioinformatics Laboratory

Research field:

- Working on data analysis and parallel algorithms for visualization of high dimensional data.

Employment for 1 year: part-time (50 %) employment on the project, part-time (50 %) as teaching assistant.

Contact: [Rina.Zivan](mailto:Rina.Zivan@fri.uni-lj.si)

About

- Mission and Vision
- Management
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- How to reach us
- Where we are
- Catalogue of Information of a Public Nature
- Research Review

- Researcher positions
- Junior researchers
- Teaching assistants
- Slovene Human Resources and Scholarship Fund

Scholarship Opportunities

gorenje

Gorenje, d.d.

- Call for applications for a doctoral scholarship in computer and information science for the topic:
“Artificial intelligence driven test automation of embedded software“
- To improve the efficiency of tests in the future, Gorenje, d. d., is planning to upgrade their current testing process. The set of tests that are currently defined by a testing engineer will be in future generated automatically by a computer.

[Online application form](#)

Contact: **Barbara Mladovan** (Barbara.Mladovan@gorenje.com)

Joint Research Centre (JRC)

**European Commission, DG Joint Research Centre, Directorate E - Space, Security and Migration.
Unit E.3 - Cyber & Digital Citizens' Security, Via Enrico Fermi 2749, 21027 Ispra (VA), ITALY**

JRC employs over 2700 researchers. The JRC Ispra unit employs 42 researchers in three groups that cover cyber security, transport security and law enforcement technology. Research for EU strategy and policy advisors. Researcher position, five year fixed contract, 2 years employed at FRI, 1-3 years employed at JRC. Doctoral supervision by advisor from FRI and co-advisor from JRC.

- **Machine learning for user profiling and anomaly detection from sensory and wireless data in the smart environment**

Contact: **Veljko Pejović** (Veljko.Pejovic@fri.uni-lj.si)

- **Machine learning for image and biometrical data analysis**

Contact: **Peter Peer** (Peter.Peer@fri.uni-lj.si)



Questions & Answers

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www.fri.uni-lj.si/en

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