Lviv Polytechnic National University

Institute of Computer Science and Information Technologies (ICSIT)
The analytical investigation of the IT market in Lviv

- 192: Lviv IT companies analyzed in the project
- 71: IT companies provided their data for the research
- 41: Directors of IT companies have been surveyed
- 20: Expert interviews conducted
- 400: IT-specialists interviewed according to a representative sample. The maximum sampling error is 4.8%
- 56: Requests for public information directed at specialized agencies
- 460+: Hours spent on data analysis
About the Institute

• It was established on the 19th of October 2001.
• The Institute is a leading regional educational and research center.
• The development and implementation of the society supply with information strategies are the main tasks the Institute deals with.
Teaching staff

More than 240 academics, out of whom:
• 32 professors
• 104 Ph.D. holders
• 58 Ph.D students
• assistants
The main research areas

- computer vision (image recognition)
- Internet of Things
- modeling and analysis
- Big data
- databases, datawarehouses
- design of intelligence information computer systems using the advanced technologies and software
Firs and second cycled programs

- Computer sciences
- Software engineering
- System analysis
- Printing and publishing
- Philology (applied linguistics)
Students, choosing the field of “Computer sciences”, gain sufficient knowledge of:

- computerized systems operation, including data processing computer systems and management of information and analytical systems
- information design systems
- artificial intelligence systems, automated system, software and computer systems
- intelligent data processing and decision-making systems
Our departments

- Information Technologies in Printing and Publishing department (ITPP) (success in Tempus)
- Automated Control Systems department (ACS)
- Information Systems and Networks department (ISN)
- Applied Linguistics department (AL)
- Computer Aided Design Systems department (CADS) (success in F7, Tempus, Erasmus)
- Artificial intelligence (success in H2020)
Our partners

- ELEKS Software
- SoftServe
- GlobalLogic
- Teradata
- Technology for business
- Uarnet
- EPAM
- Comarch
- Ericpol
- BIT Impulse
- Codence Innovations Corp
- Crystal, sports and health center, the branch of Rodon Ltd
We are interested in

- Students and staff exchange
- Students practical work
- Master and PhD thesis preparation under two supervisors (two diplomas)
- Join grants preparation (Horizon2020, dual calls...
AI department
Education process

• Join program with Lviv IT-cluster for bachelor students
• In progress join degree Master program with Lviv IT-cluster, the Slovak IT association and School of Economics and Management of Public Administration in Bratislava
Education process

Project defenses:
- [http://ai.lviv.ua/2018/06/07/1_st_year_projects/](http://ai.lviv.ua/2018/06/07/1_st_year_projects/)
- [https://www.facebook.com/ai.lviv.ua/videos/2037379819637433/](https://www.facebook.com/ai.lviv.ua/videos/2037379819637433/)

Awards:
- Winners in All-Ukrainian races of autonomous robots
- Developers of Virtual Museum of Lviv Polytechnic
- Winner of Startup challenge (Clickers)
Educational process – international cooperation

• Erasmus+ with University of Wurzburg, Germany,
• Erasmus+ with Lineau University, Sweden
• Erasmus+ with Technical University of Ostrava, Chech Republic,
• Erasmus+ with University of economy, Bydgoszcz, Poland
• Participation in Summer school from airspace, Wurzburg, Germany
Scientific research and international cooperation – projects

Compiled projects

• Horizon2020 project for cascade funding: “Hub laboratory Internet of things”
• Lviv regional administration: An electronic queue at kindergartens in Lviv region
• Lviv Polytechnic: Teachers publication rate

In progress

• project for young scientists supported by Ministry of education and science: Information technology of formation of socio-communicative environment of territorial communities
• Ukrainian-German enterprise Spheros-Electron: Industrial IoT
Scientific research and international cooperation – projects

Working (open calls)

• Horizon2020: SuperResolution (coordinator – University of Wurzburg)
• Horizon2020: Smart and healthy living at home (coordinator – University of Wurzburg)
• Ukrainian Ministry of education and science: Information technology for medical personalized information processing
• Ukrainian Ministry of education and science: Information technology for smart city information processing and analysis

Looking for partners:
• Horizon2020: Smart city
Scientific research and international cooperation – publication

- The series "Advances in Intelligent Systems and Computing" published by Springer
- 5 monographies
- 9 textbooks
- More than 300 scientific publications
Scientific research and international cooperation – research

• Big data processing and analysis (collection information from devices, databases, decision support system creation)
• Medical personalized data processing, patient state prediction
• Text analysis
• Image analysis

Students project:
• AR & VR
• robotics
Thank you for attention

Questions?