Software Engineering and Management Information Technology Department

Proposals
for the cooperation

NTU KhPI, 2021

Agenda

- Who we are

- Our research projects

- International cooperation

- Our proposals for cooperation

Who we are

- ➤ **SEMIT** department was founded by professor A.V. Dabagyan in 1964.
- ➤ **1964** – "Automatic Control of Movement", major "Flight Dynamics and Ballistic Rockets Control"
- ➤ **1977** – "Computer-aided Management Systems ", majors "Computer science" and "Computer-aided Systems Software"
- ➤ **2015** – "Software Engineering and Management Information Technologies", majors "Computer science" and "Software Engineering"
- ➤ **2017** – added major "Information Systems and Technologies"

- ➤ Graduates – more than **2000**
- ➤ Doctors of science – **20**
- ➤ PhD – **80**

Web page:
http://web.kpi.kharkov.ua/asu/en/
https://www.facebook.com/kafedra.piitu/

Team

Our team combines scholars, researchers, post-docs and assistants who inspires students to achieve their goals.

Head of Department:
Prof. Mykhailo GODLEVSKYI ,Dr. of Tech. Science,

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Teaching

We provide Education Programs for Bachelors, Masters and PhDs levels in
1. Computer Science
2. Software Engineering
3. Information Systems and Technologies

Research

➢ Planning the development of the software fulfilment process based on the SPICE INT model
➢ Analysis and synthesis of complex systems
➢ Intelligence monitoring relevant data in management systems
➢ Dynamic systems management under uncertain conditions
➢ Developing an integrated software package

Our research projects

2014-2016:
- Development of information and analytical technologies for strategic management of electronic distribution systems.
- Development of intelligent information technologies for the improvement of the efficiency and quality of processes in the establishment of folding software systems.

2017-2018
- Development of information and analytical technologies for management of efficiency and quality in folding systems for the mind of the European Integration of Ukraine
- Mathematical modeling of folding systems

National Technical University
"Kharkiv Polytechnic Institute"

1885

Software Engineering and
Management Information
Technology Department

Our research projects

2019-2020

➢ Development of models and information-analytical technologies for planning the quality improvement of the software development process.

➢ Development of models and methods of collecting and automated processing of business information in Web.

➢ Development of software solutions for improving the efficiency of managing parallel processes

➢ Software development methods and tools for IT companies personnel training using corporate knowledge

➢ Methodical basics of efficiency increasing of mathematical tool in problems solution for industrial transportation logistic

Our research projects

2021:

➢Models, algorithms and information technology for planning the development of the software fulfilment process based on the SPICE INT model

➢Models and methods of analysis and synthesis of complex systems

➢Development of methods for intelligence monitoring relevant data in management systems

➢Development of a set of models for dynamic systems management under uncertain conditions

➢Methods and tools for developing an integrated software package to improve the quality of software in non-product IT companies

International cooperation

➢ Universite Lumiere Lyon 2, France
➢ Kaunas University of Technology, Lithuania
➢ University of Maribor, Slovenia
➢ Alpen Adria University, Austria
➢ University of Paris 13, France
➢ Hamburg University of Technology, Germany

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Our Proposals

Areas of scientific cooperation:

➤Collecting, processing and analyzing information from open sources.
➤Agent-oriented software development
➤Processing of weak-structured textual data
➤Software engineering process improvement
➤Dynamic systems management under uncertain conditions

Other areas of cooperation:

➤Internship of postgraduate students and teaching staff.
➤Double degree study programs

Contacts

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Cooperation is important for quality!