0| OPEN INFORMATICS

International Computer Science Program since September 2011

Open informatics is an international computer science program offered by Czech Technical University in Prague, one of the oldest Central European university with strong tradition for research. The program is small and is based on close interaction between the selected bright students and professors who are active and internationally recognized in research. The professors have international experience and are engaged in cooperation with world leading educational institutions. The program offers solid computer science foundations on the bachelor level and a wide range of technical specializations on the masters level.

Bachelor program

Computer and Information Science – The graduates of this specialization are able to formulate realistic computer science problems and to design and implement algorithms for their solution, even in tasks requiring basic elements of artificial intelligence, such as automatic speech recognition and symbolic thinking. Besides the mathematical apparatus the graduate is equipped with knowledge of the architecture of information systems (computers, networks, databases, etc.). The graduate is also well prepared for the study of the master's program.

Master program specializations

Artificial Intelligence – The graduates of Artificial Intelligence are able to design and apply intelligent systems in areas such as automatic planning and scheduling, data analysis, formalization of expert knowledge and their use for automated reasoning. The graduates are able to assess the computational complexity of algorithms needed to guarantee the effectiveness of the proposed systems based on soft-computational (especially bio-inspired), distributed (especially multi-agent) and other AI strategies. These capabilities can be used in computer science practice and research at the post doctoral studies as well.

Computer Vision and Image Processing – This specialization provides knowledge of modern methods of automatic processing and analysis of digital images and video, and methods for image understanding and machine perception. Graduates will find their application in the areas of research and development in commercial and non-commercial sectors.

Computer Engineering – The graduates of Computer Engineering will have studied in-depth computer components and development tools for embedded systems. They will be ready to apply as analysts, developers and verification engineers, and engineers of information and communication technologies for transport equipment, production systems, household and urban infrastructure.

Software Engineering – The graduates of Software Engineering are equipped with highly specialized knowledge necessary for designing critical systems with a high degree of robustness and resilience required. Courses of this specialization provide the graduate with formal methods of system design, development and their management. Such knowledge is essential for complex software projects. The students are offered to specialize toward one

or more application domains, but they are also given deep knowledge of advanced techniques and algorithm development.

Computer Graphics and Interaction – The graduates of Computer Graphics and Interaction will have deep knowledge in the field of computer graphics and HCI – Human Computer Interaction. Graduates will find application mainly in the areas related to visualization (visual data mining, information visualization, visualization of simulation processes, etc.), virtual reality (creation of virtual environments for industrial and medical applications...) and many others. In the field of HCI the graduates will have acquired knowledge of design and testing of user interfaces of software products in terms of their ease of use and user-friendliness.

Why study Open Informatics?

- The program allows you to develop your individuality in a direction that you consider appropriate.
- The program offers a high level of eligibility and allows you to actively form your knowledge profile.
- Education is led by a team of professionals in research with extensive international experience.
- Graduating from the bachelor program provides preparation for master study at top universities.
- The master program is open also to applicants with limited computer science background.
- You will have gained high quality professional expertise, and also other skills needed for your successful application and further career progression (such cooperative work, leadership skills, entrepreneurship).
- The program offers a possibility to join the dynamically growing IT labor market in the Czech Republic.
- Internationally recognized for scientific excellence in artificial intelligence, computer vision, pattern recognition, machine learning, computer graphics, human-computer interaction and intelligent robotics.
- Open informatics provides solid preparation for PhD studies and research career.
- Best students participates on exciting research projects often funded by important global players like Google, IBM, Microsoft, Toyota and others.
- Prague – world famous medieval city center, airport hub with close connections to major European capitals, lots of culture, great bars and one of the best beers in the world.

Fee: 45.000 CZK per semester (approximately 1800 EUR, 2500 USD)

More details at: http://oi.fel.cvut.cz/en/for-study-applicants

Basic info about academic programs: http://www.fel.cvut.cz/en/education/information.html

Application form for admission: http://www.fel.cvut.cz/en/prestudent/ApplicationForm.pdf

Deadline for submission: **31 May 2011**

http://oi.fel.cvut.cz/en/