

# List of full-time students of doctoral study

## Study Program **Applied Informatics** in the field of **Informatics**

| Doctoral student                   | Thesis topic                                                                                                                                          | Supervisor            |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Ahmadzai, Mirwais, MSc.            | Collaborative learning and data privacy assurance                                                                                                     | doc. Michal Kováč     |
| Alqnatri, Ahmed Lotfi, Ing.        | Research of new methods of computer vision processing in medical applications using artificial intelligence                                           | doc. Giang Nguyen Thu |
| Bahar, Muhammad Nasim, MSc., M.Sc. | Blockchain Service Architecture for Public Payment Services                                                                                           | doc. Michal Ries      |
| Bakonyi, Peter, Ing.               | Data centered network enhancement                                                                                                                     | prof. Ivan Kotuliak   |
| Bartoš, Ján, Ing.                  | Explainable Artificial Intelligence in Precision Oncology                                                                                             | doc. M. Kováč         |
| Beňová, Lenka, Ing.                | Increasing the security of web systems                                                                                                                | doc. Ladislav Hudec   |
| Bilichová, Martina, Ing.           | Methodology development of Artificial Intelligence for automated monitoring of progression to cognitive impairment in patients with Alzheimer disease | doc. Gabriela Czanner |
| Brach, William, Ing.               | Research in the domain of using AI techniques in Distributed Ledger Technology                                                                        | doc. Michal Ries      |
| Dakić, Pavle, Mgr.                 | Representing and Reusing Software Knowledge                                                                                                           | doc. Valentino Vranić |
| Dubec, Jakub, Ing.                 | Communication in the environment of Internet of Things                                                                                                | prof. Pavel Čičák     |
| Dubovský, Martin, Ing.             | Research of new methods of computer vision processing in medical applications using artificial intelligence                                           | prof. Vanda Benešová  |
| Furman, Dmytro, Ing.               | Methodology development for Artificial Intelligence for automated detection of corneal diseases                                                       | doc. Gabriela Czanner |
| Gajdošík Adam, Ing.                | Improving the security of communication networks                                                                                                      | prof. Ivan Kotuliak   |
| Haiderzai, Mohammad Daud, MSc., MS | Patterns in Agile Software Development and Beyond                                                                                                     | doc. Valentino Vranić |
| Halinkovič, Matej, Ing.            | Research methods of using deep neural networks in computer vision                                                                                     | prof. Vanda Benešová  |
| Hanzlík, Peter, Ing.               | Improving the security of communication networks                                                                                                      | prof. Ivan Kotuliak   |
| Hložný Adam, Mgr. *                | Trial wave function optimization for QMC via artificial neural networks                                                                               | prof. Ivan Štich      |
| Janeba, Matej, Ing.                | Digital twin of the road infrastructure with announced non-connectable vehicles                                                                       | prof. Ivan Kotuliak   |
| Jánoš, Igor, Ing.                  | Artificial neural networks training                                                                                                                   | prof. Vanda Benešová  |
| Juraško, Jozef, Ing.               | Cooperative control research for autonomous vehicles                                                                                                  | doc. Peter Trúchly    |
| Kollár, Maroš, Ing.                | Research methods of using deep neural networks in computer vision                                                                                     | prof. Vanda Benešová  |
| Kunštár, Vladimír, Ing.            | Embedded systems using energy harvesting from the environment                                                                                         | doc. Tibor Krajčovič  |
| Lytvyn, Oleksandr, Ing.            | Machine learning and sensitive data protection                                                                                                        | doc. Giang Nguyen Thu |
| Mach, Ján, Ing.                    | Control systems design in the environment of Internet of Things                                                                                       | prof. Pavel Čičák     |

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| Doctoral student                   | Thesis topic                                                                      | Supervisor            |
|------------------------------------|-----------------------------------------------------------------------------------|-----------------------|
| Masaryková, Nina, Ing.             | Research in the field of sensory data fusion for connected and automated vehicles | doc. Peter Trúchly    |
| Mastiľak, Lukáš, Ing.              | Zabezpečenie kvality služby v komunikačných sieťach                               | prof. Ivan Kotuliak   |
| Matovič, Viktor, Ing.              | Patterns in Agile Software Development and Beyond                                 | doc. Valentino Vranič |
| Mikuláš, Matúš, Ing.               | Improving the security of communication networks                                  | prof. Ivan Kotuliak   |
| Momand, Mohammad Yusuf, Ing., MSc. | Patterns in Agile Software Development and Beyond                                 | doc. Valentino Vranič |
| Nemčík, Ján, Ing.                  | Quality of service optimisation in V2X communication                              | prof. Ivan Kotuliak   |
| Novocký, Adam, Ing.                | Architektúra blockchain služieb pre doménu decentralizovaných financií            | doc. Michal Ries      |
| Pavelka, Martin, Ing.              | Automatizácia generovania scenárov pre kybernetický polygón                       | doc. Ladislav Hudec   |
| Perdek, Jakub, Ing.                | Porozumenie a znovupoužitie softvérových znalostí                                 | doc. Valentino Vranič |
| Petrík, Juraj, Ing.                | Rozpoznanie podobnosti textov, programových kódov                                 | doc. Michal Kováč     |
| Petrík, Matej, Ing.                | Výskum v oblasti využitia techník AI v technológii distribuovanej účtovnej knihy  | doc. Michal Ries      |
| Sliacky, Ján, PhD.                 | Algorithm exploration and analysis for timing in tumour heterogeneity process     | prof. Ivan Kotuliak   |
| Sloboda, Tibor, Ing.               | Research methods of using deep neural networks in computer vision                 | prof. Vanda Benešová  |
| Stupavský, Igor, Ing.              | Antisocial behavior in online communities                                         | doc. Valentino Vranič |
| Tašková, Valéria, Ing.             | Design and optimization of digital systems based on RISC-V                        | doc. Ján Lang         |
| Valach, Alexander, Ing.            | Increasing the Internet of Things efficiency                                      | prof. Pavel Čičák     |
| Zemko, Ladislav, Ing.              | Increasing the Internet of Things efficiency                                      | prof. Pavel Čičák     |