

Dissertation topics 2023/2024

| Contact person | Topics for doctoral theses | Contact |
|--|--|----------------------|
| Department of Information Technologies | | |
| prof. Josef Basl | Innovation of Enterprise Information Systems IT Applications for Industry 4.0 Green Aspects of IS/IT Innovation Digital Innovation of Companies | basl@vse.cz |
| doc. Miloš Maryška | Internet of Things Industry 4.0 Data and Business Analytics | milos.maryska@vse.cz |
| prof. Václav Řepa | Business Process Engineering Information Modelling of Organizations Information Modelling of Real-World Systems Information Modelling in Public Administration Information Modelling in Evidence-Based Health Care | repa@vse.cz |
| Department of Information and Knowledge Engineering | | |
| prof. Petr Berka | Knowledge Acquisition Methods | berka@vse.cz |
| prof. Jiří Ivánek | Fuzzy Logic Operators for Data-Mining and Expert Systems | ivanek@vse.cz |
| doc. Tomáš Kliegr | Rule Learning | kliegr@vse.cz |
| prof. Jan Rauch | Knowledge Discovery in Databases | rauch@vse.cz |
| prof. Vojtěch Svátek | Ontological Engineering Linked Data on the Web Semantic Aspects of Data / Text Mining | svatek@vse.cz |
| Ing. Jiří Vomlel, Ph.D. | Bayesian networks for Educational Applications | jiri.vomlel@vse.cz |
| Department of System Analysis | | |
| doc. Zdeněk Smutný | Research in social informatics (or related fields such as computer–mediated communication; human–computer interaction; ICT and society; internet studies; science, technology and society) – is also suitable for graduates of master's programs in sociology, psychology, anthropology, media and communication studies or statistics | zdenek.smutny@vse.cz |
| doc. Vlasta Svátá | IT Audit (regulations, case studies, software support, challenges, trends) IT Process Assessment (CMMI, COBIT, maturity levels, capability levels, process automation) EGIT (Enterprise Governance of IT), (frameworks, implementation, measures, assessment) Internal Audit (challenges, regulations, quality assessment, trends) | svata@vse.cz |

| Department of Econometrics | | |
|---|--|-----------------|
| prof. Petr Fiala | Analysis of network economy and supply chains Models of revenue management Models of auctions Biform games - theory and practice | pfiala@vse.cz |
| prof. Jan Pelikán | Discrete models in operations research Models of production and logistics | pelikan@vse.cz |
| prof. Josef Jablonský | Intertemporal data envelopment analysis models Data envelopment analysis network models | jablon@vse.cz |
| prof. Martin Dlouhý | Operational research applied to health service Resource allocation and data envelopment analysis | dlouhy@vse.cz |
| prof. Michal Černý | Econometric analysis of special data: symbolic, interval, high-frequency, streams etc. Inference in partially identified models Imprecise inputs in optimization models Financial data and risk-management applications | cernym@vse.cz |
| doc. Tomáš Formánek | Modelling macroeconomic impacts of the potential euro introduction in the Czech Republic Credit risk analysis in the banking sector Semi-parametric methods in spatial econometric analysis applications | formanek@vse.cz |
| doc. Jan Zouhar | Linear and nonlinear econometrics models for short panel data Regression modelling of multilevel data | zouharj@vse.cz |
| Department of Statistics and Probability | | |
| prof. Josef Arlt | Time Series Analysis | arlt@vse.cz |
| doc. Ivana Malá | Statistical Analysis of Interval Censored Data | malai@vse.cz |
| | Regression models for censored data | |
| | Robust models and their application in statistical modelling | |
| Department of Economic Statistics | | |
| prof. Jakub Fischer | Productivity Measurement | fischerj@vse.cz |
| doc. Jaroslav Sixta | Input-Output Accounts: Development and Extensions Measurement of Modern Society within National Accounts Framework | sixta@vse.cz |