

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