

Ulysseus Research Group thematic focus

Research topic: AI driven supply chain management

Vision holder – TUKE IH: Prof. Radoslav Delina TUKE

Main area of research: Big data and AI driven cognitive supply management. Data technologies, AI algorithms, decision intelligence and automation in commercial or public procurement decision making processes. Currently, we are focusing our research on big data and AI causal driven research on spend management, supply management, automation of procurement decision making or negotiation process, data driven risk management of supply chain & suppliers, category management, predictive procurement, unfair practices in supply chain, procurement/supply chain performance optimisation, AI driven procurement of innovation etc.

Existence of living lab: cloud based transactional data living lab with millions of contractual data from commercial and public procurement environments, esp. from Central Europe. Cooperation with 30+ (access to 100+) companies from Central Europe & public organisations.

Specific research problems & objectives:

- Unfair practices in supply chains – behavioural modelling esp. with causal AI
- Enhancing causal approaches in transactional data
- Nonstandard time series in transactional data research
- Risk assessment of suppliers, automation of risk indicator diagnostics and data driven category management
- Domain specific procurement issues like green indicators, esp. social indicators
- Prediction or automation of procurement esp. operational based on complex negotiation settings (diff.types of auction settings, market situations, ...)
- Data driven Procurement of innovation research and data services
- Data driven diagnostics of potential research topic/results/researchers synergies within Ulyssues
- And many more 😊

Expertise requested:

- Expertise in supply chain or procurement in commercial or public sector for joint scientific publishing
- Exchange and preparation of project proposals for international and national funding
- Development of special methodologies for this specific types of transactional data
- Expertise in causal approaches – econometrics and AI
- Interest in building European transactional data living lab

In the case of interest, we would like to arrange some meeting with more detailed presentation and discussion how to create domain specific research groups and how to manage cooperation and high impact R&I results.

Contact:

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