**EXAMPLES OF MSATER’S THESIS TOPICS**

**for the Programme “Big Data Systems”**

1. Week Signal Revealing Based on Big Data Tools
2. Development of a Demand Forecasting System
3. Recurrence Quantification Analysis for Detecting Financial Volatility
4. Big Data Techniques with Application in Dynamic Pricing Optimization
5. Self-Organized Scheme for the Microblogging Network Evolution: Formalism and Empirical Study
6. Automation Control in Retail Using Deep Learning Algorithms
7. The Impact of Reputation on Financial Performance of Luxury Retail Companies: an Agent-Based Model of Opinion and Reputation Risk management
8. Recommendation System Development for Potential Factoring Service Customer Identification
9. Application of the Design Thinking Methodology in the Game Industry
10. Research and Development of Recommender Systems for Social Network Communities
11. Smart Fair Collection System Based on Big Data and ITS Technologies
12. Development of Analytical Service for Cryptotraders
13. Big Data Technologies Implementation in Cyber Security
14. Big Data Technologies for Social Network Analysis
15. Time-Series Prediction Using Reinforcement Learning
16. Development of the Concept of Using Video Analytics to Monitor and Analyze the Behavior of Visitors of the Museum Quarter
17. Automated Fact-Based Report Generation
18. Big Data Ethoacoustic
19. Approaches to Analysis and Modeling of the Social Network Dynamics
20. The Analysis of the Interaction between the Clients of a Telecommunications Company
21. Investigation of Big Data Analytics for Forecasting Cryptocurrency Value Patterns
22. Loyalty Program for Retail Based on Geodata and Contextual Information
23. Big Data for Customer Journey Analytics in Online-Education
24. Research and Development of Informational Influence Models in Large-Scale Social Networks with a Glance at Big Data Ethics
25. Development of Data-Driven Approach in Museum Aiming at Improvement of the Visitor Experience
26. Fraud Detection in Financial Transactions Graph
27. Building Computing Environment for Predictive Analytics in Data-Driven Application Systems
28. Transposon recognition by machine-learning methods
29. Efficiency Analysis of Role Restrictions in Remote Banking Systems
30. Settlement, Quality Assurance and Forecasting for Public Transport Planning of Railway Carriages in Austria