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Intro -- Preface -- Organization -- Contents -- AI System Engineering: Math, Modelling and Software -- DSD: The Data Source Description Vocabulary -- 1 Introduction -- 2 Related Work -- 3 The Data Source Description Vocabulary (DSD) -- 4 Use Cases and Applications of DSD -- 5 Evaluation Against the FAIR Principles -- 5.1 Automatic Evaluation -- 5.2 Manual Evaluation -- 6 Conclusion and Outlook on Future Work -- References -- Analyzing the Innovative Potential of Texts Generated by Large Language Models: An Empirical Evaluation -- 1 Introduction -- 2 Background -- 3 Methods -- 4 Results -- 5 Conclusion and Outlook -- References -- LocBERT: Improving Social Media User Location Prediction Using Fine-Tuned BERT -- 1 Introduction -- 2 Related Work -- 3 Predicting User Location -- 3.1 Data -- 3.2 LocBERT -- 4 Experimental Results and Discussion -- 5 Conclusion -- References -- Measuring Overhead Costs of Federated Learning Systems by Eavesdropping -- 1 Introduction -- 2 Related Work -- 3 Design -- 4 Reference Implementation -- 5 Challenges -- 6 Results -- 6.1 Bytes Sent -- 6.2 Synchronisation Time -- 6.3 The Cost of Eavesdropping -- 7 Conclusion and Future Work -- References -- Cyber-Security and Functional Safety in Cyber-Physical Systems -- A Context Ontology-Based Model to Mitigate Root Causes of Uncertainty in Cyber-Physical Systems -- 1 Introduction -- 2 Literature Review -- 3 Context Ontology-Based Uncertainty Mitigation (COUM) Model -- 3.1 Justification -- 3.2 Proposed Meta-Model -- 3.3 COUM Model -- 4 Care-o-Bot System Case Study -- 5 Results and Discussion -- 6 Conclusion and Future Directions -- References -- Architecture for Self-protective Medical Cyber-Physical Systems -- 1 Introduction -- 2 Related Work -- 3 Security and Privacy Challenges -- 4 Self-protective MCPS Architecture -- 5 Sample Scenario -- 6 Discussion -- 7 Conclusion. References -- An Approach for Safe and Secure Software Protection Supported by Symbolic Execution -- 1 Introduction -- 2 Control State ASMs -- 3 Threat Model -- 4 PUF-Based Software Protection Method -- 4.1 Approach -- 4.2 Method -- 5 Security Evaluation -- 6 Summary -- References -- Towards Increasing Safety in Collaborative CPS Environments -- 1 Introduction -- 2 Motivation -- 3 Challenges -- 4 Framework Architecture -- 5 Proof of Concept -- 6 Related Work -- 7 Conclusion -- References -- An Intermediate Representation for Rewriting Cypher Queries -- 1 Introduction -- 2 Related Work -- 3 Abstract Syntax Tree for Cypher Queries -- 3.1 Types of AST Nodes -- 3.2 AST Classes -- 4 Implementation -- 5 Conclusion -- References -- An Effective Feature Selection for Diabetes Prediction -- 1 Introduction -- 2 Related Work -- 3 Proposed Method -- 3.1 Data Collection -- 3.2 Pre-processing -- 3.3 Prediction -- 4 Experimentation -- 4.1 Result -- 5 Conclusion -- References -- Author Index.

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