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SESSION TITLE: Information Science and Knowledge Organization in Motion: The New Data Science Approach and its Underlying Technologies

Scope & rationale: This session discusses theoretical, methodological and practical technology based tools to study and deal with information needs in libraries and organizations. Research on and applications of knowledge based systems, ontologies, machine learning and data management are presented. The session illustrates the applications and impacts of and barriers to the use of these technology-based tools in areas such as smart cities, smart business and industry and presents the role of library services in the support of data management. The papers also reflect on how Information Science and Information Science courses have incorporated and may choose to deal with novel contexts and needs that new technology has offered.

List of papers

- 1. Renato Rocha Souza**, Data Science: A New Field and a Curriculum Proposal
- 2. Mauricio B. Almeida**, Ontologies and Classification: The Unavoidable Interplay Between Human Reasoning and Machine Reasoning
- 3. Renata Maria Abrantes Baracho Porto**, A Community-driven Ontology for Smart Cities, Smart Buildings and Smart Life
- 4. Fernanda Gomes Almeida e Beatriz Valadares Cendón**, Library Support for Research Data Management: A Taxonomy of Services
- 5. Ricardo Rodrigues Barbosa, Maria das Graças Murici**, Information Management and Digital Transformation: Uses and Impacts of New Technologies
- 6. Luiz Carlos Felipe de Oliveira e Beatriz Valadares Cendón**, Big Data in Information Science Literature