Data mining in unusual domains with information-rich knowledge graph construction, inference and search

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Agenda

• Knowledge graphs
• Knowledge graph construction (KGC) over Web data
• What is an unusual domain?
  • Case studies of unusual domains
• Data mining in unusual domains
  • Why do knowledge graphs help?
• KGC for unusual domains
  • Information extraction for text
  • Information extraction for Web
• Knowledge graph inference: entity linking and resolution
• Practical Implementations
• Knowledge graph embeddings
• Answering complex queries over noisy knowledge graphs
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