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ConclusionPart III. Services and their Integration; Chapter 6. Primitive Services for Managing Mathematical Knowledge; Tasks, Scenarios, and Required Primitive Services; Editing; Validating; Human- and Machine-Comprehensible Publishing; Information Retrieval; Arguing about Problems and their Solutions; Conclusion; Chapter 7. Integrating Assistive Services into Interactive Documents; State of the Art and Related Work; Requirements for Integrating Services into Documents; The JOBAD Architecture; In-Document Client Services; Symbol-based Client Services; Expression-based Client Services
Conclusion and Future WorkChapter 8. Transparent Translations in Knowledge Bases; Extracting Structures from Semantic Markup; Migration to More Expressive Languages; Coping with Different Representation Granularities on Import and Export; Recommendations for Running Translations Transparently; Conclusion; Chapter 9. The Semantic Wiki SWiM - An Integrated Collaboration Environment; Wikis and Semantic Wikis (State of the Art); Requirements Analysis and Design Decisions; Architecture; How SWiM Supports OpenMath CD Maintenance Workflows; Related Work; Conclusion and Future Work Chapter 10. Usability Evaluation of an Integrated Environment for Maintaining Semiformal Collections

Sommario/riassunto

Mathematics is becoming increasingly collaborative, but software does not sufficiently support that: Social Web applications do not currently make mathematical knowledge accessible to automated agents that have a deeper understanding of mathematical structures. Such agents exist but focus on individual research tasks, such as authoring, publishing, peer-review, or verification, instead of complex collaboration workflows. This work effectively enables their integration by bridging the document-oriented perspective of mathematical authoring and publishing, and the network perspective of threaded