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CSCE-675 Digital Libraries: Daily Readings

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I. Streams, Structures, Spaces, Scenarios, Societies (5S): A Formal Model for Digital Libraries [1]

Details:

• Year: 2004

• Type: ACM Trans. Inf. Syst

• Affiliations: Virginia Polytechnic Institute and State University

Take-away points:

- This paper gives formal models for digital libraries.
- The authors give fundamental abstractions of Streams, Structures, Spaces, Scenarios, and Societies (5S), which allows them to dene digital libraries rigorously.
- The applicability, versatility, and unifying power of the 5S model are demonstrated through its use in three distinct applications: building and interpretation of a DL taxonomy, informal and formal analysis of case studies of digital libraries (NDLTD and OAI), and utilization as a formal basis for a DL description language.

REFERENCES

[1] M. A. Gonçalves, E. A. Fox, L. T. Watson, and N. A. Kipp, "Streams, structures, spaces, scenarios, societies (5s): A formal model for digital libraries," *ACM Trans. Inf. Syst.*, vol. 22, pp. 270–312, April 2004. [Online]. Available: http://doi.acm.org/10.1145/984321.984325