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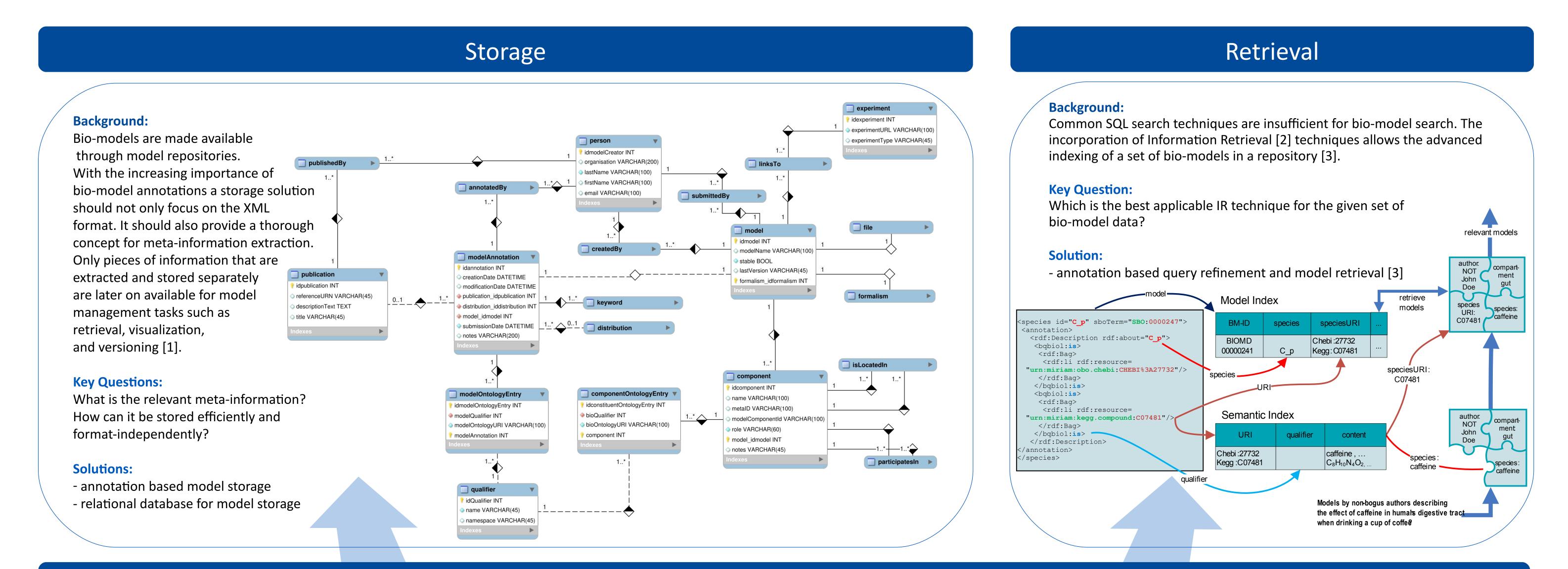




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Managing Bio-Models: Model Storage, Retrieval, Ranking and Versioning

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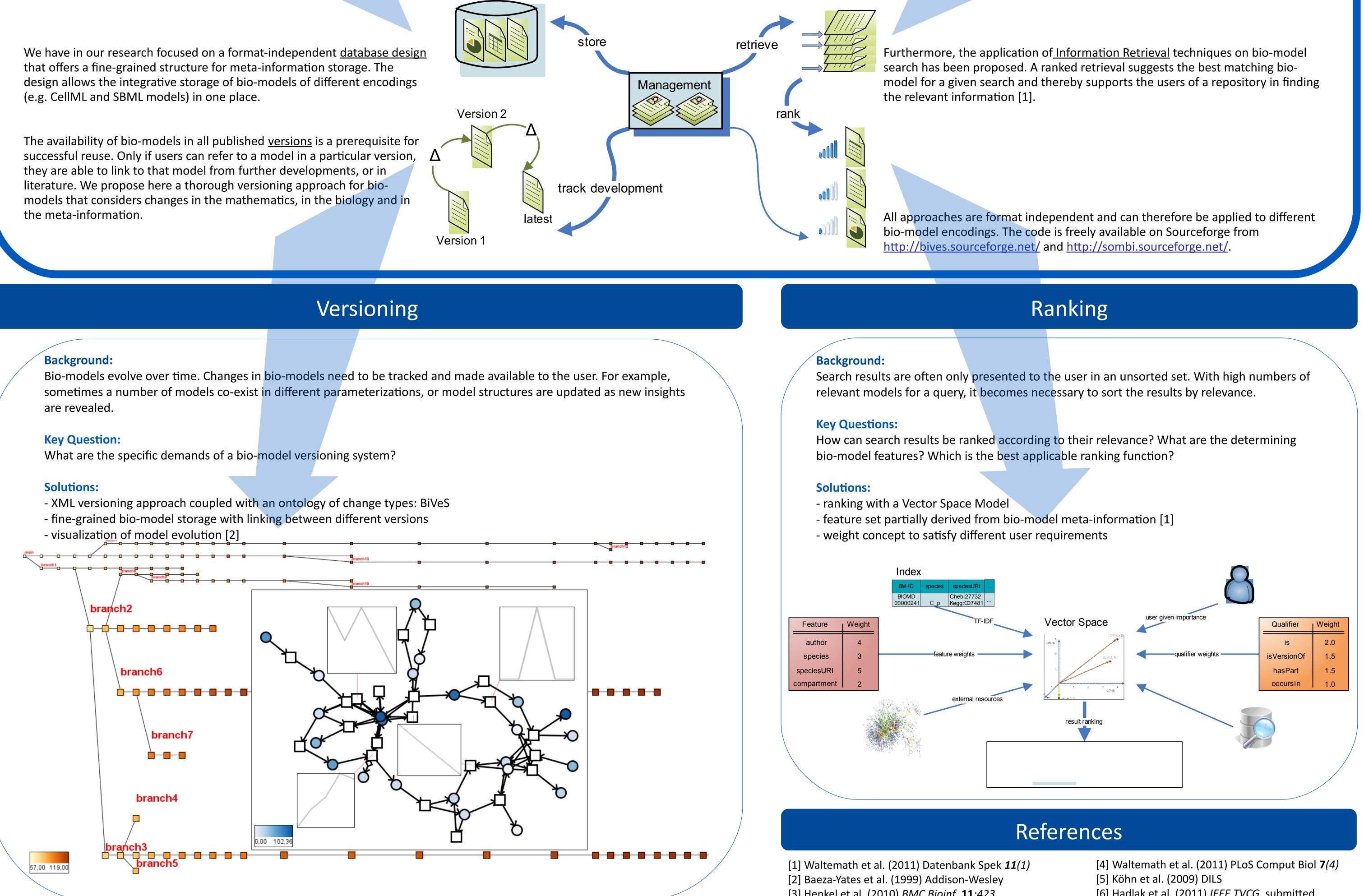
Bio-model management

The number of publicly available bio-models is increasing rapidly. Model reuse and simulation result reproduction have therefore become important tools for the systems biology community [4]. Different model repositories provide access to model code and model meta-information. However, the application of further standard database and information systems techniques can enhance the reuse of available bio-models [5].

Definition (Bio-Model): A computational model of a biological system, annotated with meta-information and stored in XML format [1].

Definition (Meta-Information): Annotations that provide additional (third-party) knowledge about the modeled system and enhance the computer-processed understanding, e.g. model author, model entity descriptions, or modification dates.

that offers a fine-grained structure for meta-information storage. The



[3] Henkel et al. (2010) BMC Bioinf, 11:423

[6] Hadlak et al. (2011) IEEE TVCG, submitted

