On semi-automated matching and integration of database schemas

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Bibliography

Afsarmanesh, H., Benabdelkader, A., & Hertzberger, L. O. (1998). A flexible approach to information sharing in water industries. In: *Proceedings of the International Conference on Information Technology - CIT98*, Bhubaneswar, India. Tata McGraw-Hill Publishing Company Limited, pp.135-142.

Afsarmanesh, H., & Camarinha-Matos, L. M. (1997). Federated information management for cooperative virtual organizations. In: *Proceedings of the VIII International Conference on Database and Expert System Applications - DEXA'97*, Toulouse, France. Springer Verlag Lecture Notes in Computer Science (LNCS 1308), pp.561-572.

Afsarmanesh, H., & Camarinha-Matos, L. M. (2005). A framework for management of virtual organizations breeding environments. In: *Proceedings of PRO-VE'05-Collaborative Networks and their Breeding Environment, Valencia, Spain*. pp.35-48.

Afsarmanesh, H., Camarinha-Matos, L. M., & Ermilova, E. (2008). Vbe reference framework. In L. M. Camarinha-Matos, H. Afsarmanesh & M. Ollus (Eds.), *Methods and tools for collaborative networked organizations.* (pp. 35-68). 978-0-387-79423-5, New York, Springer.

Afsarmanesh, H., Guevara-Masis, V., & Hertzberger, L. O. (2004). Federated management of information for telecare. In: *Proceedings of the TELECARE 2004 - Int. Workshop on Tele-Care and Collaborative Virtual Communities in Elderly Care*, Porto, Portugal. INSTICC Press, pp.49-62, ISBN:972-8865-10-4.

Afsarmanesh, H., Wiedijk, M., Hertzberger, L. O., Gomes, F. J. N., Provedel, A., Martins, R. C., et al. (1996). Cooperation of cim expert systems supported by peer. *Special issue of Journal of Studies in Informatics and Control, 5*(2), pp.157-169.

Afsarmanesh, H., Wiedijk, M., Tuijnman, F., Bergman, M., & Trenning., P. (1994). *The peer information management language user manual*, Technical Report, CS-94-14, Dept. of Computer Science, University of Amsterdam.

An, Y., Mylopoulos, J., & Borgida, A. (2006). Building semantic mappings from databases to ontologies. In: *Proceedings of the Twenty-First National Conference on Artificial Intelligence - (AAAI-06)*, Boston, Massachusetts, USA. AAAI Press, pp.1557-1560, ISBN:978-1-57735-281-5.

Arens, Y., Knoblock, C. A., & Shen, W.-M. (1996). Query reformulation for dynamic information integration. *Journal of Intelligent Information Systems, 6*(2/3), pp.99-130.

Aumueller, D., Do, H. H., Massmann, S., & Rahm, E. (2005). Schema and ontology matching with coma++. In: *Proceedings of the ACM SIGMOD International Conference on Management of Data*, Baltimore, Maryland, USA. ACM, pp.906-908, ISBN:1-59593-060-4.

Banerjee, S., & Pedersen, T. (2002). An adapted lesk algorithm for word sense disambiguation using wordnet. In: *Proceedings of the Third International Conference on Intelligent Text Processing and Computational Linguistics*, Mexico City - Mexico. Springer, pp.136-145.

Batini, C., Lenzerini, M., & Navathe, S. (1986). A comparative analysis of methodologies for database schema integration. *ACM Computing Surveys, 18*(4), pp.323-364.

Bayardo, R. J., Bohrer, W., Brice, R., Cichocki, A., Fowler, J., Helal, A., et al. (1997). Infosleuth: Agent-based semantic integration of information in open and dynamic environments. In: *Proceedings of the ACM SIGMOD International Conference on Management of Data*, Tucson, Arizona, USA. ACM, pp.195-206.

Beneventano, D., & Bergamaschi, S. (2004). The momis methodology for integrating heterogeneous data sources. In: *Proceedings of the IFIP Congress Topical Sessions*, Toulouse, France. Kluwer, pp.19-24, ISBN:1-4020-8156-1.

Bergamaschi, S., Castano, S., Beneventano, D., & Vincini, M. (2001). Semantic integration of heterogeneous information sources. *Data and Knowledge Engineering, 36*(1), pp.215-249.

Bergamaschi, S., Castano, S., Vimercati, S. D. C. d., Montanari, S., & Vincini, M. (1998). A semantic approach to information integration: The momis project. In: *Proceedings of the Sesto Convegno della Associazione Italiana per l'Intelligenza Artificiale - AI*IA98*, Padova, Italy.

Bernstein, P. A., Melnik, S., Petropoulos, M., & Quix, C. (2004). Industrial-strength schema matching. *SIGMOD Record, 33*(4), pp.38-43.

BizTalk. (2010). *Microsoft corporation: Biztalk mapper*, Last accessed 2010, from http://www.microsoft.com/biztalk.

Blondel, V. D., Gajardo, A., Heymans, M., Senellart, P., & Dooren, P. V. (2004). A measure of similarity between graph vertices: Applications to synonym extraction and web searching. *SIAM Review, 46*(4), pp.647-666.

Brachman, R. J., & Schmolze, J. G. (1985). An overview of the kl-one knowledge representation system. *Cognitive Science, 9*(2), pp.171-216.

Brodie, M. L., & Ceri, S. (1992). On intelligent and cooperative information systems: A workshop summary. *International Journal of Intelligent and Cooperative Information Systems, 2*(2), pp.249-290.

Budanitsky, A., & Hirst, G. (2001). Semantic distance in wordnet: An experimental, application-oriented evaluation of five measures. In: *Proceedings of the Workshop on WordNet and Other Lexical Resources, Second meeting of the North American Chapter of the Association for Computational Linguistics*, Pittsburgh, USA. pp.29-34.

Bukhres, O., & Elmagarmid, A. (Eds.). (1996). *Object-oriented multidatabase systems: A solution for advanced applications*. Englewood Cliffs, NJ: Prentice Hall.

Bunke, H. (2000). Graph matching: Theoretical foundations, algorithms and applications. In: *Proceedings of the International Conference on Vision Interface*, Montreal, Quebec, Canada. pp.82-88.

Busse, S., Kutsche, R.-D., Leser, U., & Weber, H. (1999). *Federated information systems: Concepts, terminology and architectures,*Technical report, 99-9, Technische Universitat Berlin.

Camarinha-Matos, L. M., & Afsarmanesh, H. (1999a). The prodnet goals and approach. In: *Proceedings of PRO-VE'99- Infrastructures for Virtual Enterprises*, Porto, Portugal. Kluwer Academic Publishers, pp.97-108, ISBN: 0-7923-8639-6.

Camarinha-Matos, L. M., & Afsarmanesh, H. (1999b). The virtual enterprise concept. In: *Proceedings of the Infrastructures for Virtual Enterprises*, Porto, Portugal. Kluwer Academic Publishers, pp.3-14, ISBN:0-7923-8639-6.

Camarinha-Matos, L. M., & Afsarmanesh, H. (2003). Designing the information technology subsystem for enterprise integration. In P. Bernus, L. Nemes & G. Schmidt (Eds.), *Invited chapter in handbook on enterprise architecture* (pp. 617-680), ISBN: 3-540-00343-6, Springer.

Camarinha-Matos, L. M., & Afsarmanesh, H. (2008a). Classes of collaborative networks. In G. Putnik & M. M. Cunha (Eds.), *Encyclopedia of networked and virtual organizations*. Idea Group.

Camarinha-Matos, L. M., & Afsarmanesh, H. (2008b). Concept of collaboration. In G. Putnik & M. M. Cunha (Eds.), *Encyclopedia of networked and virtual organizations*. Idea Group.

Camarinha-Matos, L. M., Afsarmanesh, H., & Erbe, H. (Eds.) (2000). *Advances in networked enterprises - virtual organizations, balanced automation, and systems integration*. ISBN: 0-7923-7958-6, Boston, Kluwer Academic Publishers.

Camarinha-Matos, L. M., Afsarmanesh, H., & Ollus, M. (2005). Ecolead: A holistic approach to creation and management of dynamic virtual organizations. In: *Proceedings of PRO-VE'05- Collaborative Networks and their Breeding Environments*, Valencia, Spain. Springer, pp.3-16.

Chaudhri, V. K., Farquhar, A., Fikes, R., Karp, P. D., & Rice, J. P. (1998). Okbc: A programmatic foundation for knowledge base interoperability. In: *Proceedings of the Artificial intelligence/Innovative applications of artificial intelligence*, Madison, Wisconsin, USA. American Association for Artificial Intelligence, pp.600-607.

Chawathe, S., Garcia-Molina, H., Hammer, J., Ireland, K., Papakonstantinou, Y., Ullman, J., et al. (1994). The tsimmis project: Integration of heterogeneous information sources. In: *Proceedings of the 10th Meeting of the Information Processing Society of Japan, Tokyo, Japan*.pp.7-18.

Chiticariu, L., Hernández, M. A., Kolaitis, P. G., & Popa, L. (2007). Semi-automatic schema integration in clio. In: *Proceedings of the International Conference on Very Large Data Bases (VLDB) (Demo Track)*, Vienna, Austria. pp.1326-1329.

Chiticariu, L., Kolaitis, P. G., & Popa, L. (2008). Interactive generation of integrated schemas. In: *Proceedings of the ACM SIGMOD International Conference on Management of Data*, Vancouver, BC, Canada. ACM, pp.833-846.

Cleverdon, C. W., & Keen, E. M. (1966). *Factors determining the performance of indexing systems*. Cranfield, England, Aslib-Cranfield research project.

Cohen, W., Ravikumar, P., & Fienberg, S. E. (2003). A Comparison of String Distance Metrics for Name-Matching Tasks. In: *Proceedings of the IJCAI-2003 Workshop on Information Integration on the Web, Acapulco, Mexico*. pp.73-78.

Dhamankar, R., Lee, Y., Doan, A., Halevy, A., & Domingos, P. (2004). Imap: Discovering complex semantic matches between database schemas. In: *Proceedings of the ACM Sigmod Conference on Management of Data*, Paris, France. ACM, pp.383-394, ISBN:1-58113-859-8.

Do, H. H., Melnik, S., & Rahm, E. (2002). Comparison of schema matching evaluations. In: *Proceedings of the NODe 2002 Web and Database-Related Workshops on Web, Web-Services, and Database Systems*. Springer Lecture Notes in Computer Science (LNCS 2593), pp.221-237, ISBN:3-540-00745-8.

Do, H. H., & Rahm, E. (2002). Coma - a system for flexible combination of schema matching approaches. In: *Proceedings of the International Conference on Very Large Databases (VLDB)*, Hong Kong, China. pp.610-621.

Doan, A. H., Domingos, P., & Halevy, A. (2001). Reconciling schemas of disparate data sources - a machine-learning approach. In: *Proceedings of the ACM SIGMOD International Conference on Management of Data*, Santa Barbara, California, USA. ACM, pp.509-520.

Doan, A. H., Madhavan, J., Domingos, P., & Halevy, A. (2002). Learning to map between ontologies on the semantic web. In: *Proceedings of the World-Wide Web Conference*, Honolulu, Hawaii, USA. pp.662-673.

Dou, D., McDermott, D., & Qi, P. (2003). Ontology translation on the semantic web. In: *Proceedings of the International Conference on Ontologies, Databases and Applications of Semantics - ODBASE'03*. Springer Lecture Notes in Computer Science (LNCS 2888), pp.952-969.

Duchateau, F., Bellahsene, Z., & Hunt, E. (2007). Xbenchmatch: A benchmark for xml schema matching tools. In: *Proceedings of the International Conference on Very Large Databases (VLDB)*, Vienna, Austria. pp.1318-1321, ISBN:978-1-59593-649-3.

Eclipse. (2010). *Eclipse*, Last accessed 2010, from http://www.eclipse.org/.

Ehrig, M., & Staab, S. (2004). Qom - quick ontology mapping. In: *Proceedings of the International Semantic Web Conference (ISWC)*, Hiroshima, Japan. Springer Lecture Notes in Computer Science (LNCS 3298), pp.683-697.

Ehrig, M., & Sure, Y. (2004). Ontology mapping - an integrated approach. In: *Proceedings of the European Semantic Web Symposium (ESWS)*, Heraklion, Crete, Greece. Springer Lecture Notes in Computer Science (LNCS 3053), pp.76-91, ISBN:3-540-21999-4.

Ehrig, M., & Sure, Y. (2005). Foam - framework for ontology alignment and mapping - results of the ontology alignment evaluation initiative. In: *Proceedings of the K-CAP (International Conference on Knowledge Capture) 2005 Workshop on Integrating Ontologies*, Banff, Canada. pp.72-76.

Elmagarmid, A., & Pu, C. (1990). Guest editors' introduction to the special issue on heterogeneous databases. *ACM Computing Surveys, 22*(3), pp.175-178.

Embley, D. W., Xu, L., & Ding, Y. (2004). Automatic direct and indirect schema mapping: Experiences and lessons learned. *SIGMOD Record, 33*(4), pp.14-19.

Fellbaum, C. (1998). *An electronic lexical database.*, Cambridge, MA, MIT press.

Foggia, P., Sansone, C., & Vento, M. (2001). A performance comparison of five algorithms for graph isomorphism. In: *Proceedings of the IAPR TC-15 Workshop on Graph-based Representations in Pattern Recognition*, Ischia, Italy. pp.188-199.

Gal, A. (2006). Managing uncertainty in schema matching with top-k schema mappings. *Journal on Data Semantics VI: Special Issue on Emergent Semantics, v. 4090*, pp.90-114.

Gal, A. (2007). Why is schema matching tough and what can we do about it? *SIGMOD Record, 35*(4), pp.2-5.

Garcia-Molina, H., Papakonstantinou, Y., Quass, D., Rajaraman, A., Sagiv, Y., Ullman, J., et al. (1997). The tsimmis approach to mediation: Data models and languages. *Journal of Intelligent Information Systems, 8*(2), pp.117-132.

Giunchiglia, F., Shvaiko, P., & Yatskevich, M. (2004). S-match: An algorithm and an implementation of semantic matching. In: *Proceedings of the European Semantic Web Symposium (ESWS)*, Heraklion, Crete, Greece. Springer Lecture Notes in Computer Science, pp.61-75, ISBN:3-540-21999-4.

Goh, C., Bresson, S., Madnich, S., & Siegel, M. (1999). Context interchange: New features and formalisms for the intelligent integration of information. *ACM Transactions on Information Systems, 17*(3), pp.270-293.

GraphML. (2010). *Graphml*, Last accessed 2010, from http://graphml.graphdrawing.org/.

Gregor, R. M. M. (1988). A deductive pattern matcher. In: *Proceedings of the National Conference on Artificial Intelligence (AAAI)*, Saint Paul, Minnesota, USA. Morgan Kaufmann Publisher, pp.403-408.

Gruber, T. R. (1993). A translation approach to portable ontologies. *Knowledge Acquisition, 5*(2), pp.199-220.

Guevara-Masis, V., Unal, O., Kaletas, E. C., Afsarmanesh, H., & Hertzberger, L. O. (2004). Using ontologies for collaborative information management: Some challenges & ideas. In: *Proceedings of the Third Biennial International Conference on Advances in Information Systems (ADVIS)*, Izmir, Turkey. Springer Lecture Notes in Computer Science (LNCS 3261), pp.107-116, ISBN:3-540-23478-0.

GXL. (2010). *Graph exchange language (gxl)*, Last accessed 2010, from http://www.gupro.de/GXL/.

Hammer, J., & McLeod, D. (1993). An approach to resolving semantic heterogeneity in a federation of autonomous, heterogeneous database systems. *International Journal of Intelligent & Cooperative Information Systems, World Scientific, 2*(1), pp.51-83.

Hammer, M., & McLeod, D. (1979). *On database management system architecture*, Technical Report MIT/LCS/TM-141, MIT Lab for Computer Science.

Hammer, M., & Mcleod, D. (1981). Database description with sdm: A semantic database model. *ACM Transactions on Database Systems, 6*(3), pp.351-386.

Heimbigner, D., & McLeod, D. (1985). A federated architecture for information management. *ACM Transaction on Information Systems, 3*(3), pp.253-278.

Hirst, G., & St-Onge, D. (1998). Lexical chains as representations of context for the detection and correction of malapropisms. In C. Fellbaum (Ed.), *Wordnet: An electronic lexical database and some of its applications.*, Cambridge, MIT Press.

Huhns, M., Jacobs, N., Ksiezyk, T., Shen, W., Singh, M., & Cannata, P. (1992). Enterprise information modeling and model integration in carnot. In C. J. Petrie (Ed.), *Enterprise integration modeling* (pp. 290-299). MIT Press.

Jaccard, P. (1912). The distribution of flora in the alpine zone. *The New Phytologist, 11*(2), pp.37-50.

Jaro, M. A. (1995). Probabilistic linkage of large public health data files. *Statistics in Medicine, v. 14*, pp.491-498.

JGraph. (2010). *Jgraph*, Last accessed 2010, from http://www.jgraph.com/.

JGraphT. (2010). *Jgrapht*, Last accessed 2010, from http://jgrapht.sourceforge.net/.

Jiang, J. J., & Conrath, D. W. (1997). Semantic similarity based on corpus statistics and lexical taxonomy. In: *Proceedings of the International Conference on Research in Computational Linguistics.*, Taipei, Taiwan. pp.19-33.

JWNL. (2010). *Jwnl*, Last accessed 2010, from http://jwordnet.sourceforge.net/.

Kahng, J., & McLeod, D. (2001). Dynamic classificational ontologies. In M. A. Arbib & G. J.S. (Eds.), *Computing the brain: A guide to neuroinformatics* (pp. 241-254). Academic Press.

Kamel, M. N., & Kamel, N. (1992). Federated database management system: Requirements, issues and solutions. *Computer Communications, 15*(4), pp.270-280.

Kirkpatrick, B. (1998). *Roget's thesaurus of english words and phrases.*, Harmondsworth, Middlesex, England, Penguin.

Kleinberg, J. M. (1999). Authoritative sources in a hyperlinked environment. *Journal of the ACM, 46*(5), pp.604-632.

Leacock, C., & Chodorow., M. (1998). Combining local context with wordnet similarity for word sense identification. In C. Fellbaum (Ed.), *Wordnet: A lexical reference system and its application.* Cambridge, MIT Press.

Lenzerini, M. (2002). Data integration: A theoretical perspective. In: *Proceedings of the Twenty-first ACM SIGMOD-SIGACT-SIGART Symposium on Principles of Database Systems - PODS*, Madison, Wisconsin. ACM, pp.233-246, ISBN:1-58113-507-6.

Lesk, M. (1986). Automatic sense disambiguation using machine readable dictionaries: How to tell a pine code from an ice cream cone. In: *Proceedings of the 5th International Conference on Systems Documentation*, Toronto, Ontario, Canada. pp.24-26.

Levenshtein, V. I. (1966). Binary codes capable of correcting deletions, insertions, and reversals. *Cybernetics and Control Theory, 10*(8), pp.707-710.

Levy, A. Y., Rajaraman, A., & Ordille, J. J. (1996). Querying heterogeneous information sources using source descriptions. In: *Proceedings of the International Conference on Very Large Database (VLDB)*, Bombay, India. Morgan Kaufmann, pp.251-262, ISBN:1-55860-382-4.

Li, W., & Clifton, C. (2000). Semint: A tool for identifying attribute correspondence in heterogeneous databases using neural networks. *Journal of Data and Knowledge Engineering, 33*(1), pp.49-84.

Litwin, W., & Abdellatif, A. (1986). Multidatabase interoperability. *Computer, 19*(12), pp.10-18.

Madhavan, J., Bernstein, P. A., & Rahm, E. (2001). Generic schema matching with cupid. In: *Proceedings of the International Conference on Very Large Databases (VLDB)*, Roma, Italy. Morgan Kaufmann, pp.49-58, ISBN:1-55860-804-4.

McGuinness, D. L., Fikes, R., Rice, J., & Wilder, S. (2000). An environment for merging and testing large ontologies. In: *Proceedings of the Seventh International Conference on Principles of Knowledge Representation and Reasoning (KR2000)*, Breckenridge, Colorado. pp.483-493.

Melnik, S., Garcia-Molina, H., & Rahm, E. (2002). Similarity flooding: A versatile graph matching algorithm and its application to schema matching. In: *Proceedings of the International Conference on Data Engineering (ICDE)*, San Jose, CA, USA. IEEE Computer Society, pp.117-128.

Melnik, S., Rahm, E., & Bernstein, P. A. (2003). Rondo: A programming platform for generic model management. In: *Proceedings of the ACM SIGMOD International Conference on Management of Data*, San Diego, California, USA. ACM, pp.193-204, ISBN:1-58113-634-X.

Mena, E., Illarramendi, A., Kashyap, V., & Sheth, A. (2000). Observer: An approach for query processing in global information systems based on interoperation across pre-existing ontologies. *Distributed and Parallel Databases Journal, 8(2)*, pp.223-271.

Miller, R. J., Haas, L. M., & Hernandez, M. A. (2000). Schema mapping as query discovery. In: *Proceedings of the International Conference on Very Large Databases (VLDB)*, Cairo, Egypt. Morgan Kaufmann, pp.77-88, ISBN:1-55860-715-3.

Mitra, P., Wiederhold, G., & Decker, S. (2001). A scalable framework for the interoperation of information sources. In: *Proceedings of the International Semantic Web Working Symposium (SWWS)*, California, USA. IOS press, pp.317-329, ISBN:1-58603-255-0.

Monge, A. E., & Elkan, C. (1996). The field matching problem: Algorithms and applications. In: *Proceedings of the Second International Conference on Knowledge Discovery and Data Mining*, Portland, Oregon, USA. AAAI Press, pp.267-270, ISBN:1-57735-004-9.

Noy, N., & Musen, M. (2001). Anchor-prompt: Using non-local context for semantic matching. In: *Proceedings of the Workshop on Ontologies and Information Sharing at the International Joint Conference on Artificial Intelligence (IJCAI)*. pp.63-70.

Noy, N. F., & Musen, M. A. (2000). Prompt: Algorithm and tool for automated ontology merging and alignment. In: *Proceedings of the Seventeenth National Conference on Artificial Intelligence (AAAI-2000)*, Austin, Texas, USA. AAAI Press/The MIT Press, pp.450-455, ISBN:0-262-51112-6.

Noy, N. F., & Musen, M. A. (2003). The prompt suite: Interactive tools for ontology merging and mapping. *International Journal of Human-Computer Studies, 59*(6), pp.983-1024.

Ozsu, T., & Valduriez, P. (1999). *Principles of distributed database systems*. ISBN: 0-13-659707-6, New Jersey, Prentice Hall.

Papakonstantinou, Y., Garcia-Molina, H., & Ullman, J. (1996). Medmaker: A mediation system based on declarative specifications. In: *Proceedings of the International Conference on Data Engineering (ICDE)*, New Orleans, Louisiana, USA. IEEE Computer Society, pp.132-141, ISBN:0-8186-7240-4.

Papakonstantinou, Y., Garcia-Molina, H., & Widom, J. (1995). Object exchange across heterogeneous information sources. In: *Proceedings of the International Conference on Data Engineering (ICDE)*, Taipei, Taiwan. IEEE Computer Society, pp.251-260, ISBN:0-8186-6910-1.

Patwardhan, S. (2003). *Incorporating dictionary and corpus information into a context vector measure of semantic relatedness.*Master's thesis, University of Minnesota.

Pedersen, T., Banerjee, S., & Patwardhan, S. (2005). *Maximizing semantic relatedness to perform word sense disambiguation.*, Research Report UMSI 2005/25, University of Minnesota Supercomputing Institute.

Pottinger, R., & Bernstein, P. A. (2008). Schema merging and mapping creation for relational sources. In: *Proceedings of the International Conference on Extending Database Technology (EDBT)*, Nantes, France. ACM, pp.73-84, ISBN:978-1-59593-926-5.

Pottinger, R. A., & Bernstein, P. A. (2003). Merging models based on given correspondences. In: *Proceedings of the International Conference on Very Large Databases (VLDB)*, Berlin, Germany. Morgan Kaufmann, pp.826-873, ISBN:0-12-722442-4.

Protege. (2010). *Protege*, Last accessed 2010, from http://protege.stanford.edu/.

Rahm, E., & Bernstein, P. A. (2001). A survey of approaches to automatic schema matching. *VLDB Journal, 10*(4), pp.334-350.

Rahm, E., Do, H. H., & Massmann, S. (2004). Matching large xml schemas. *SIGMOD Record, 33*(4), pp.26-31.

Resnik, P. (1995). Using information content to evaluate semantic similarity in a taxonomy. In: *Proceedings of the Fourteenth International Joint Conference on Artificial Intelligence (IJCAI'95)*. Montréal, Québec, Canada. pp.448-453.

Resnik, P. (1999). Semantic similarity in a taxonomy: An information-based measure and its application to problems of ambiguity in natural language. *Journal of Artificial Intelligence Research (JAIR), 11*, pp.95-130.

Rijsbergen, C. J. V. (1979). *Information retrieval*. London, U.K., Butterworth.

Saleem, K., Bellahsene, Z., & Hunt, E. (2008). Porsche: Performance oriented schema mediation. *Information Systems, 33*(7-8), pp.637-657.

Salton, G., & Yang, C. S. (1973). On the specification of term values in automatic indexing. *Journal of Documentation, 29*, pp.351-372.

SecondString. (2010). *Secondstring*, Last accessed 2010, from http://secondstring.sourceforge.net/.

Sheth, A. (1998). Changing focus on interoperability in information systems: From system, syntax, structure to semantics. In M. F. Goodchild, M. J. Egenhofer, R. Fegeas & C. A. Kottman (Eds.), *Interoperating geographic information systems*. Kluwer.

Sheth, A., & Kashyap, V. (1992). So far (schematically), yet so near (semantically). In: *Proceedings of the Proceedings of the IFIP WG2.6 Conference on Semantics of Interoperable Database Systems*, Lorne, Victoria, Australia. North-Holland Publishing, pp.283-312, ISBN:0-444-89879-4.

Sheth, A., & Larson, J. (1990). Federated database systems for managing distributed, heterogeneous, and autonomous databases. *ACM Computing Surveys, 22*(3), pp.183-236.

Shvaiko, P., & Euzenat, J. (2005). A survey of schema-based matching approaches. *Journal of Data Semantics IV, v. 3730*, pp.146-171.

Silberschatz, A., Stonebraker, M., & Ullman, J. D. (1990). Database systems: Achievements and opportunities. *SIGMOD Record, 19*(4).

Sørensen, C. (2005). *This is not an article-just some thoughts on how to write one*, Technical Report 121, London School of Economics and Political Science. United Kingdom.

Spaccapietra, S., Parent, C., & Dupont, Y. (1992). Model independent assertions for integration of heterogeneous schemas. *VLDB Journal, 1*(1), pp.81-126.

Tsichritzis, D. (1981). Integrating data base and message systems. In: *Proceedings of the International Conference on Very large Data Bases (VLDB)*, Cannes, France. IEEE Computer Society, pp.356-362.

Tuijnman, F., & Afsarmanesh, H. (1993). Management of shared data in federated cooperative peer environment. *International Journal of Intelligent and Cooperative Information Systems (IJICIS), 2*(4), pp.451-473.

Unal, O., & Afsarmanesh, H. (2006a). Interoperability in collaborative network of biodiversity organizations. In: *Proceedings of PRO-VE - Network-Centric Collaboration and Supporting Frameworks*, Helsinki, Finland. Springer, pp.515-524.

Unal, O., & Afsarmanesh, H. (2006b). Sasmint system for database interoperability in collaborative networks. Springer Lecture Notes in Computer Science (LNCS 4275), Springer, pp.91-108, ISBN:978-3-540-48287-3.

Unal, O., & Afsarmanesh, H. (2006c). Using linguistic techniques for schema matching. In: *Proceedings of the International Conference on Software and Data Technologies (ICSOFT)*, Setubal, Portugal. INSTICC Press, pp.115-120, ISBN:972-8865-69-4.

Unal, O., & Afsarmanesh, H. (2009). Schema matching and integration for data sharing among collaborating organizations. *Journal of Software, 4*(3), ISSN:1796-217X, pp.248-261.

Unal, O., & Afsarmanesh, H. (2010). Semi-automated schema integration with sasmint. *Journal of Knowledge and Information Systems., 23*(1), ISSN:0219-1377, pp.99-128.

Unal, O., Kaletas, E. C., Afsarmanesh, H., Yakali, H. H., & Hertzberger, L. O. (2005). Collaborative information management system for science domains. In S. Dasgupta (Ed.), *Encyclopedia of virtual communities and technologies*. Idea Group Publishing.

Wang, G., Goguen, J., Nam, Y., & Lin, K. (2004). Critical points for interactive schema matching. In: *Proceedings of the Sixth Asia Pacific Web Conference*, Hangzhou, China. Springer Lecture Notes in Computer Science, pp.654-664, ISBN:3-540-21371-6.

Wiederhold, G. (1992). Mediators in the architecture of future information systems. *IEEE Computer, 25*(3), pp.38-49.

WordNet. (2010). *Wordnet*, Last accessed 2010, from http://www.cogsci.princeton.edu/~wn/.

Wu, Z., & Palmer, M. (1994). Verb semantics and lexical selection. In: *Proceedings of the 32nd Annual Meeting of the Association for Computational Linguistics*, Las Cruces, New Mexico. Association for Computational Linguistics, pp.133-138.

XMLBeans. (2010). *Xmlbeans*, Last accessed 2010, from http://xmlbeans.apache.org/.

Zager, L. (2005). *Graph similarity and matching* S.M. Thesis, Massachusetts Institute of Technology.

Zisman, A. (1995). *Towards interoperability in heterogeneous database systems*, Technical Report 11, Department of Computing, Imperial College of Science, Technology and Medicine.