

PUBLICATIONS from Mizoguchi Lab. (not exhaustive)

Last modified: March. 20, 2015

- [2015](#)
- [2014](#)
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- [1985-1990](#)

[*Citations of Selected Papers \(in Google Scholar\)](#)

2015

Ontological theory and tool

Ontology engineering in engineering domains

Ontology engineering in medical domains

Title: Development of CHARM Pad: a Multi-viewpoint Knowledge Browsing System Towards Goal-oriented Learning of Nursing Actions and its Practical Use in Training of Novice Nurses . **(in Japanese)**

Authors: Satoshi Nishimura, Munehiko Sasajima, Yoshinobu Kitamura, Akemi Nakamura, Hiroe Takahashi, Akemi Hirao, Kanetoshi Hattori, Riichiro Mizoguchi
Reference: Transactions of the Japanese Society for Artificial Intelligence, Vol. 30, No. 1, pp.22-36, 2015.

2014

Ontological theory and tool

Ontology engineering in engineering domains

Title: Technical Artifacts: An Integrated Perspective

Authors: Stefano Borgo, Maarten Franssen, Pawel Garbacz, Yoshinobu Kitamura, Riichiro Mizoguchi, Pieter E. Vermaas

Reference: J. of Applied Ontology, Vol. 9, No.3-4 pp. 217-235, IOS Press, 2014.

[Article \(PDF, 317 KB\)](#), [The article page on the publisher site](#)

Ontology engineering in medical domains

Title: Systematic Description of Nursing Actions Based on Goal Realization Model,

Authors: Satoshi Nishimura, Yoshinobu Kitamura, Munehiko Sasajima, and Riichiro Mizoguchi,

Reference: In Proc. of 15th European Conference on Knowledge Management - ECKM 2014, September 4-5, 2014, Santarém, Portugal, Academic Conferences and Publishing International Ltd., pp. 730-739 (2014)

Title: CHARMing Clinical Pathways - Modeling of Clinical Pathways based on the Goal-Oriented Ontological Framework CHARM.

Authors: Satoshi Nishimura, Genma Nishijima, Yoshinobu Kitamura, Munehiko Sasajima, Toshihiro Takeda, Yasushi Matsumura and Riichiro Mizoguchi,

Reference: In Proc. of the 7th International Conference on Health Informatics, March 3-6, 2014. Angers, France, SCITEPRESS, pp. 211-221 (2014).

2013

Ontological theory and tool

Title: Ontology Exploration Tool for Social, Economic and Environmental Development

Authors: Kouji Kozaki, Terukazu Kumazawa, Osamu Saito and Riichiro Mizoguchi

Reference: In Proc. of 7th IEEE International Conference on Digital Ecosystems and Technologies([IEEE DEST2013](#)), 24-26 July 2013, Menlo Park, California, USA, 2013.

[Article \(PDF, 1,665KB\)](#)

Title: Multistep Expansion based Concept Search for Intelligent Exploration of Ontologies

Authors: Kouji Kozaki, Osamu Saito and Riichiro Mizoguchi

Reference: In Proc. of International Workshop on Intelligent Exploration of Semantic Data ([IESD 2012](#)), May 1, 2013, Paris,France, 2013.

[Article \(PDF, 644KB\)](#)

Ontology engineering in engineering domains

Title: Characterizing functions based on phase- and evolution-oriented models

Authors: Yoshinobu Kitamura and Riichiro Mizoguchi

Reference: J. of Applied Ontology, Vol. 8, No. 2, pp. 73-94, IOS Press (2013)

[Article \(PDF, 533 KB\)](#), [The article page on the publisher site](#)

Title: Ontological characterization of functions: Perspectives for capturing functions and modeling guidelines,

Authors: Yoshinobu Kitamura and Riichiro Mizoguchi:

Reference: Artificial Intelligence for Engineering Design, Analysis and Manufacturing (AIEDAM), Vol. 27, No. 3, pp. 259-269, Cambridge Univ. Press (2013)

[Article \(PDF, 496 KB\)](#), [The article page on the publisher site](#)

Title: Ontological Engineering for Navigation Interface of Mobile Services (**in Japanese**)

Authors: Yoshinobu Kitamura, Munehiko Sasajima, and Riichiro Mizoguchi

Reference: J. of Human Interface Society, Vol.15, No.3, pp.19-24 (2013)

Ontology engineering in medical domains

Title: Ontological Model of Abnormal States and its Application in the Medical Domain

Authors: Yuki Yamagata, Hiroko Kou, Kouji Kozaki, Riichiro Mizoguchi, Takeshi Imai, Kazuhiko Ohe

Reference: In Proc. of the 4th International Conference on Biomedical Ontology (ICBO 2013), July 8-9, 2013, Montreal, Qc, Canada, pp.28-33, 2013.

[Article \(PDF, 697KB\)](#)

Title: Ontological Modeling of Interoperable Abnormal States

Authors: Yuki Yamagata, Hiroko Kou, Kouji Kozaki, Riichiro Mizoguchi, Takeshi Imai, Kazuhiko Ohe

Reference: In Proc. of Joint International Semantic Technology Conference (JIST2012), Dec. 2-4, 2012, Nara, Japan, LNCS 7774, pp.33-48, 2013.

[Article \(PDF, 394KB\)](#), [Article\(publisher site\)](#)

Title: Protein Experimental Information Management System (PREIMS) Based on Ontology: Development and Applications

Authors: Junko Sato, Kouji Kozaki, Susumu Handa, Takashi Ikeda, Ryotaro Saka, Kohei Tomizuka, Yugo Nishiyama, Toshiyuki Okumura, Shinichi Hirai, Tadashi Ohno, Mamoru Ohta, Susumu Date, Haruki Nakamura

Reference: IPSJ Transactions on Bioinformatics, Vol.6, pp.9-17, 2013.

[Article\(publisher site\)](#)

Title: CHARM as Activity Model to Share Knowledge and Transmit Procedural Knowledge and its Application to Nursing Guidelines Integration

Authors: Satoshi Nishimura, Yoshinobu Kitamura, Munehiko Sasajima, Akiko Williamson, Chikako Kinoshita, Akemi Hirao, Kanetoshi Hattori, and Riichiro Mizoguchi

Reference: Journal of Advanced Computational Intelligence and Intelligent Informatics, Vol. 17, No. 2 pp. 208-220 (2013)

[Article \(PDF, 3.3 MB\)](#) [The article page on the publisher site](#)

2012

Ontological theory and tool

Title: A Consensus-Building Support System based on Ontology Exploration

Authors: Kouji Kozaki, Osamu Saito and Riichiro Mizoguchi

Reference: In Proc. of International Workshop on Intelligent Exploration of Semantic Data (IESD 2012), October 9, 2012, Galway City, Ireland, 2012.

[Article \(PDF, 1,087KB\)](#)

Title: A Model of Derived Roles

Authors: Kouji Kozaki, Yoshinobu Kitamura, Riichiro Mizoguchi

Reference: In Proc. of the 18th International Conference on Knowledge Engineering and Knowledge Management (EKAW 2012), LNAI7603, Oct. 8-12, 2012, Galway City, Ireland, pp.227-236, 2012.

[Article \(PDF, 394KB\)](#), [Article\(publisher site\)](#)

Title: Towards A Unified Definition of Function

Authors: Riichiro Mizoguchi, Yoshinobu Kitamura, Stefano Borgo

Reference: In Proc. of the 7th International Conference on Formal Ontology in Information Systems (FOIS 2012), July 25-27, 2012, Graz, Austria, M. Donnelly and G. Guizzardi (eds.), IOS Press, pp. 103-116, 2012.

[Article \(PDF, 236KB\)](#)

Title: Dynamic Is-a Hierarchy Generation based on Viewpoints(**in Japanese**)

Authors: Kouji Kozaki, Keisuke Hihara, Riichiro Mizoguchi

Reference: Transactions of the Japanese Society for Artificial Intelligence, Vol. 27, No. 3, pp.235-244 (2012)

[Article\(publisher site\)](#)

Title: A Taxonomy of Roles (**Invited talk**)

Authors: Riichiro Mizoguchi, Koji Kozai, Yoshinobu Kitamura

Reference: Proc. of the Fifth Interdisciplinary Ontology Meeting, pp.117-122, Tokyo, Japan, February 23-24, 2012.

[Article \(PDF, 221KB\)](#)

Title: Towards Perspectives for Capturing Functions

Authors: Yoshinobu Kitamura and Riichiro Mizoguchi

Reference: Proc. of the Fifth Interdisciplinary Ontology Meeting, pp.109-115, Tokyo, Japan, February 23-24, 2012.

Ontology engineering in medical domains

Title: Browsing Causal Chains in a Disease Ontology

Authors: Kouji Kozaki, Hiroko Kou, Yuki Yamagata, Takeshi Imai, Kazuhiko Ohe and Riichiro Mizoguchi

Reference: Poster & Demo Notes of 11th International Semantic Web Conference (ISWC 2012), Boston, USA, November 11-15, 2012

[Article \(PDF, 432KB\)](#)

Title: An Ontology of Gene

Authors: Hiroshi Masuya, Riichiro Mizoguchi

Reference: In Proc. of the 3rd International Conference on Biomedical Ontology (ICBO 2012), KR-MED Series, July 21-25, 2012, Graz, Austria, Ronald Cornet and Robert Stevens (eds.), CEUR Workshop Proceedings, ISSN 1613-0073, available online at CEUR-WS.org/Vol-897/, pp.27-31, 2012.

[Article\(publisher site\)](#)

Title: Identity Tracking of a Disease as a Causal Chain

Authors: Kouji Kozaki, Riichiro Mizoguchi, Takeshi Imai and Kazuhiko Ohe

Reference: In Proc. of the 3rd International Conference on Biomedical Ontology (ICBO 2012), KR-MED Series, July 21-25, 2012, Graz, Austria, Ronald Cornet and Robert Stevens (eds.), CEUR Workshop Proceedings, ISSN 1613-0073, available online at CEUR-WS.org/Vol-897/, pp.131-136, 2012.

[Article\(publisher site\)](#) , [Presentation \(PPTX\)](#)

Title: A Consideration on Identity of Diseases

Authors: Kouji Kozaki, Riichiro Mizoguchi, Takeshi Imai and Kazuhiko Ohe

Reference: Proc. of the Fifth Interdisciplinary Ontology Meeting, pp.75-80, Tokyo, Japan, February 23-24, 2012.

[Article \(PDF, 545KB\)](#)

Title: Semantic Mechanisms in Clinical Omics DB

Authors: Jun Nakaya, Michio Kimura, Riichiro Mizoguchi, Koji Kozaki and Hiroshi Tanaka

Reference: Proc. of the Fifth Interdisciplinary Ontology Meeting, pp.81-91, Tokyo, Japan, February 23-24, 2012.

Ontology engineering in bio-informatics

Title: The Ontological Representation of Genetics

Authors: Hiroshi Masuya and Riichiro Mizoguchi

Reference: Proc. of the Fifth Interdisciplinary Ontology Meeting, pp.149-152, Tokyo, Japan, February 23-24, 2012.

Ontology engineering in services

Title: A Comprehensive Evaluation of the Definitions of Services (**in Japanese**)

Authors: Kouhei SUMITA, Yoshinobu KITAMURA, Munehiko SASAJIMA and Riichiro MIZOGUCHI

Reference: Journal of Japan Industrial Management Association, Vol. 63, No. 3, pp. 138-153 (2012)

[Manuscript \(PDF, 630KB\)](#), [Official index for the article \(on CiNii\)](#)

Title: An Ontological Consideration on Essential Properties of the Notion of “Service” (**in Japanese**)

Authors: Kouhei Sumita, Yoshinobu Kitamura, Munehiko Sasajima, Sunao Takafuji, Riichiro Mizoguchi

Reference: Transactions of the Japanese Society for Artificial Intelligence, Vol. 27, No. 3, pp.176-192 (2012)

[Article \(PDF, 2.9MB\)](#)

Title: Are Services Functions ?

Authors: Kouhei Sumita, Yoshinobu Kitamura, Munehiko Sasajima, Riichiro Mizoguchi

Reference: In Proc. of Third International Conference on Exploring Services Science (IESS 2012), Feb 15-17, 2012, Geneva, Switzerland, Mehdi Snene (ed.), LNBIP 103, Springer pp.58-72, 2012

[Article \(PDF, 694KB\)](#)

2011

Ontological theory and tool

Title: Dynamic Is-a Hierarchy Generation System Based on User's Viewpoint

Authors: Kouji Kozaki, Keisuke Hihara, and Riichiro Mizoguchi

Reference: In Proc. of Joint International Semantic Technology Conference (JIST2011), Dec. 4-7, 2011, Hangzhou, China, LNCS 7185, pp.96-111, 2012.

[Article \(PDF, 1.78MB\)](#)

Title: Dynamic is-a Hierarchy Generation for User Centric Semantic Web

Authors: Kouji Kozaki, Keisuke Hihara, and Riichiro Mizoguchi

Reference: In Proc. of International Workshop on Ontologies come of Age in the Semantic Web (OCAS), Oct. 24th, 2011, Bonn, Germany, (USB-Key) 2011.

[Article \(workshop site\)](#)

Title: Understanding an Ontology through Divergent Exploration

Authors: Kouji Kozaki, Takeru Hirota, and Riichiro Mizoguchi

Reference: Proc. of 8th Extended Semantic Web Conference (ESWC2011), pp.305-320, Heraklion, Greece, MAY 29 - June 2, 2011.

[Article\(PDF 1.85MB, Final draft\)](#) [Article \(publisher site\)](#) [Presentation Video](#)

Title: A Quality Assurance Framework for Ontology Construction and Refinement

Authors: Mamoru Ohtai, Kouji Kozaki, and Riichiro Mizoguchi

Reference: Proc. of 7th Atlantic Web Intelligence Conference (AWIC2011), pp.207-216, Fribourg, Switzerland, January 26-28, 2011.

[Article\(PDF 1.38MB, Final draft\)](#) [Article \(publisher site\)](#)

Title: The Counting Problem in the Light of Role Kinds

Authors: Claudio Masolo, Laure Vieu, Yoshinobu Kitamura, Kouji Kozaki and Riichiro Mizoguchi

Reference: Proc. of Tenth International Symposium on Logical Formalizations of Commonsense Reasoning (Commonsense 2011), Stanford University, CA, USA, March 21-23, 2011.

[Article\(PDF 237KB\)](#)

Title: An Extension of the Environment for Building/Using Ontologies "Hozo" toward Practical Ontology Engineering - Focused on Theoretical Issues(**in Japanese**)

Authors: Mamoru Ohta, Kouji Kozaki and Riichiro Mizoguchi

Reference: Transactions of the Japanese Society for Artificial Intelligence, Vol.26 No.2, pp.387-402, 2011.

[Article \(publisher site\)](#)

Title: An Extension of the Environment for Building/Using Ontologies "Hozo" toward Practical Ontology Engineering - Focused on Practical Issues(**in Japanese**)

Authors: Mamoru Ohta, Kouji Kozaki and Riichiro Mizoguchi

Reference: Transactions of the Japanese Society for Artificial Intelligence, Vol.26 No.2, pp.403-418, 2011.

[Article \(publisher site\)](#)

Title:A Time and Situation Dependent Semantics for Ontological Property Classification

Authors: [Ken Kaneiwa](#) and Riichiro Mizoguchi

Reference: IEICE Transactions on Information and Systems, Vol.94-D, No.3,pp.639-647, 2011.

[Article \(publisher site\)](#)

Ontology engineering in e-Learning

Title: Special Issue on Intelligent and Innovative Support Systems for CSCL

Editors: Seiji Isotani, Jacqueline Bourdeau, Riichiro Mizoguchi, Weiqin Chen, Barbara Wasson, and Jelena Jovanovic

Reference: IEEE Trans. on Learning Technologies, JANUARY-MARCH 2011 VOLUME 4 NUMBER 1, PP.1-110, 2011

Ontology engineering in engineering domains

Title: Biomimetic Database and Ontology (in Japanese)

Authors: Kouji Kozaki and Riichiro Mizoguchi

Reference: The New Trends in Next Generation Biomimetic Materials Engineering: Learning from Biodiversity (Supervisor: Masatsugu Shimomura, Editor: Neo-biomimetics Forum), Chapter 5.1, pp.334-339, CMC PublishingCO., LTD, 2011.

[Publisher site](#)

Title: Technical Artifact: An Integrated Perspectives

Authors: Stefano Borgo, Maarten Franssen, Pawel Garbacz, Yoshinobu Kitamura, Riichiro Mizoguchi, and Pieter E. Vermaas

Reference: In Proc. of the Fifth International workshop Formal Ontologies Meet Industry (FOMI 2011), July 7-8, 2011, Delft, The Netherlands, Pieter E. Vermaas and Virginia Dignum (eds.), IOS Press (Amsterdam, The Netherlands), pp. 3-15, 2011.

[Article \(PDF, 240KB\)](#)

Title: An Ontology of Classification Criteria for Functional Taxonomies

Authors: Yoshinobu Kitamura, Sho Segawa, Munehiko Sasajima, Riichiro Mizoguchi

Reference: In Proc. of ASME 2011 International Design Engineering Technical Conferences and Computers and Information in Engineering Conference (ASME IDETC/CIE 2011), August 28-31, 2011, Washington, DC, USA, DETC2011-48125 (CD-ROM), 2011

[Article \(PDF, 470KB\)](#)

Title: FOREST: An Ontological Modeling Framework for Product-Related Processes

Authors: Yoshinobu Kitamura, Yusuke Koji, Riichiro Mizoguchi

Reference: In Proc. of the 7th International Conf. of Engineering Design in

Integrated Product Development (EDIProD 2011), Wroclaw, Poland, 30 June - 1 July, 2011, pp. 39-49, 2011 (invited).

[Article \(PDF, 380KB\)](#)

Title: Evolution and Commercial Deployment of Integrated Technical Knowledge Management System Based on Ontology Engineering **(in Japanese)**

Authors: Sunao Takafuji, Yoshinobu Kitamura and Riichiro Mizoguchi

Reference: Transactions of the Japanese Society for Artificial Intelligence, Vol. 26, No. 5, pp.547-558 (2011)

[Article\(PDF 1.2MB\)](#) [Article \(on J-Stage\)](#)

Title: Structuring of Knowledge Based on Ontology Engineering

Authors: R. Mizoguchi, K. Kozaki, O. Saito, T. Kumazawa and T. Matsui

Reference: H. KOMIYAMA, K. TAKEUCHI, H. SHIROYAMA and T. MINO (ed.) Sustainability Science: A Multidisciplinary Approach, Sustainability Science 1, Section 2-3, United Nations University Press, New York, NY, USA, pp.47-68, Apr,2011.

[Book information \(publisher site\)](#)

Title: Application of Ontology Engineering to Biofuel Problems

Authors: O. Saito, K. Kozaki, T. Hirota, R. Mizoguchi

Reference: H. KOMIYAMA, K. TAKEUCHI, H. SHIROYAMA and T. MINO (ed.) Sustainability Science: A Multidisciplinary Approach, Sustainability Science 1, Section 2-4, United Nations University Press, New York, NY, USA, pp.69-86, Apr,2011.

[Book information \(publisher site\)](#)

Title: Structuring Knowledge on a Resource-Circulating Society

Authors: T. Kumazawa, T. Matsui and R. Mizoguchi

Reference: T. MORIOKA, K. HANAKI and Y. MORIGUCHI (ed.) Establishing a Resource-circulating Society in Asia: Challenges Opportunities, Sustainability Science 3, Section 2-2, United Nations University Press, New York, NY, USA, pp.37-51, Apr,2011

[Book information \(publisher site\)](#)

Title: Structuring of Sustainability Knowledge Based on Ontology Engineering**(in Japanese)**

Authors: T. Kumazawa, K. Kozaki and R. Mizoguchi

Reference: S. Hara, Y. Umeda(Eds.), Pioneering Sustainability Science,Chapter 13, pp.186-209, Osaka University Press, May, 2011.

Ontology engineering in medical domains

Title: River Flow Model of Diseases

Authors: Riichiro Mizoguchi, Kouji Kozaki, Hiroko Kou, Yuki Yamagata, Takeshi Imai, Kayo Waki, Kazuhiko Ohe

Reference: Proc. of 2nd International Conference on Biomedical Ontology (ICBO2011),pp.63-70 July 28-30, 2011, Buffalo, NY, USA, 2011. CEUR Workshop Proceedings, ISSN 1613-0073, available online at CEUR-WS.org/Vol-833/.
[Article\(publisher site\)](#) [Presentation \(PPT\)](#)

Ontology engineering in bio-informatics

Title: An Advanced Strategy for Integration of Biological Measurement Data

Authors: Hiroshi Masuya, Georgios V Gkoutos, Nobuhiko Tanaka, Kazunori Waki, Yoshihiro Okuda, Tatsuya Kushida, Norio Kobayashi, Koji Doi, Kouji Kozaki, Robert Hoehndorf, Shigeharu Wakana, Tetsuro Toyoda, Riichiro Mizoguchi

Reference: Proc. of 2nd International Conference on Biomedical Ontology (ICBO2011),pp.79-86 July 28-30, 2011, Buffalo, NY, USA, 2011. CEUR Workshop Proceedings, ISSN 1613-0073, available online at CEUR-WS.org/Vol-833/.
[Article\(publisher site\)](#) [Presentation \(PPT\)](#)

2010

Ontological theory and tool

Title: Interdisciplinary Ontology, Vol.3, Proceedings of [the Third Interdisciplinary Ontology Meeting](#)

Authors: Barry Smith, Riichiro Mizoguchi and Sumio Nakagawa

Reference: Keio University, Tokyo, Japan, February 27-28, 2010.

Title:An Extension of an Environment for Building/Using Ontologies "HOZO"
Toward Practical Ontology Engineering

Authors: Mamoru Ohtai, Kouji Kozaki, and Riichiro Mizoguchi

Reference: Proc. of the 10th IASTED International Conference Software Engineering and Applications (SEA2010),Marina del Rey, USA, November 8-10, 2010.

[Article\(PDF 1.38MB, Final draft\)](#) [Article \(publisher site\)](#)

Title: Practical Considerations on Identity for Instance Management in Ontological Investigation

Authors: Kouji Kozaki, Satoshi Endo, Riichiro Mizoguchi

Reference: Proc. of the 17th International Conference on Knowledge Engineering and Knowledge Management (EKAW2010), LNAI6317, pp.16-30, Lisbon, Portugal, October 11-15, 2010. [Article\(final draft:PDF, 922KB\)](#), [publisher site](#), [presentation](#)

Title: Classification and Trend Analysis of Utilization of Ontology

Authors: Kouji Kozaki

Reference: Journal of the Japanese Society for Artificial Intelligence, Vol. 24, No. 5, pp. 475-484, July, 2010. **(in Japanese)**

Ontology engineering in e-Learning

Title: A New Perspective for Metacognition-Driven Learning

Authors: Michiko KAYASHIMA & Riichiro MIZOGUCHI

Reference: Proc. of 18th International Conference on Computers in Education (ICCE2010), pp. 41-45, Putrajaya, Malaysia, Nov. 29-Dec. 3, 2010.

[Article \(publisher site\)](#)

Title: Building an Ontology-Based System Which Supports the Instructional Design Process

Authors: Toshinobu KASAI, Kazuo NAGANO & Riichiro MIZOGUCHI

Reference: Proc. of 18th International Conference on Computers in Education (ICCE2010), pp. 51-55, Putrajaya, Malaysia, Nov. 29-Dec. 3, 2010.

[Article \(publisher site\)](#)

Title: A New Framework of Metacognition with Abstraction/Instantiation Operations

Authors: Michiko Kayashima and Riichiro Mizoguchi

Reference: Proc. 10th International Conference on Intelligent Tutoring Systems (ITS2010), pp. 362-364, Pittsburgh, USA, June 14-17, 2010.

[Article \(publisher site\)](#)

Title: Ontology-Based Formal Modeling of the Pedagogical World: Tutor Modeling

Authors: Riichiro Mizoguchi, Yusuke Hayashi and Jacqueline Bourdeau

Reference: Roger Nkambou Riichiro Mizoguchi Jacqueline Bourdeau (Eds.), Advances in Intelligent Tutoring Systems (Studies in Computational Intelligence), pp. 229-247, Springer-Verlag Berlin Heidelberg, August, 2010.

[Article \(PDF, 467KB\)](#)

Title: Advances in Intelligent Tutoring Systems (Studies in Computational Intelligence)

Authors: Roger Nkambou, Riichiro Mizoguchi, Jacqueline Bourdeau

Reference: Springer-Verlag Berlin Heidelberg, August, 2010.

[Book information \(publisher site\)](#)

Title: Structuring the Cultural Domain with an Upper Ontology of Culture

Authors: Emmanuel Blanchard, Riichiro Mizoguchi, Susanne P. Lajoie

Reference: Emmanuel Blanchard and Allard Daniele (Eds), Handbook of Research on Culturally Aware Information Technology: Perspectives and Models, pp. 179-212, Hershey, PA: Information Science Publishing, 2010.

[Article \(PDF, 393KB\)](#)

Title: Addressing Cross-Linguistic Influence and Related Cultural Factors Using Computer-Assisted Language Learning

Authors: Allard Daniele, Riichiro Mizoguchi, Jacqueline Bourdeau

Reference: Emmanuel Blanchard and Allard Daniele (Eds) Handbook of Research on Culturally-Aware Information Technology: Perspectives and Models, (to appear), USA: IGI Global, 2010.

[Article \(PDF, 419KB\)](#)

Title: Ontological Modeling for Reflective Instructional Design: A Case Study on Modeling a Lesson Plan

Authors: Yusuke Hayashi, Toshinobu Kasai, and Riichiro Mizoguchi

Reference: In Proc. of 18th International Conference on Computers in Education (ICCE2010), pp.25-32, Putrajaya, Malaysia, Nov. 29-Dec. 3, 2010.

Title: An Authoring Tool to Support the Design and Use of Theory-Based Collaborative Learning Activities

Authors: Seiji Isotani, Riichiro Mizoguchi, Sadao Isotani, Olimpio M. Capeli, Naoko Isotani and Antonio R. P. L. de Albuquerque

Reference: In Proc. of 10th International Conference on Intelligent Tutoring Systems (ITS2010), pp. 92-102, Pittsburgh, USA, June 14-June 17, 2010.

[Article \(publisher site\)](#)

Title: The foundations of a theory-aware authoring tool for CSCL design

Authors: Seiji Isotani, Riichiro Mizoguchi, Akiko Inaba and Mitsuru Ikeda

Reference: International Journal of Computers and Education, Vol. 54, Issue 4, May 2010.

[Article \(publisher site: Available online 26 Sep. 2009\)](#)

Title: Learning and Instructional Activity Design based on Ontological Engineering

Authors: Riichiro Mizoguchi and Yusuke Hayashi

Reference: Journal of the Japanese Society for Artificial Intelligence, Vol. 25, No. 2, pp. 240-249, Mar. 2010. **(in Japanese)**

Title: Strategy-centered Modeling for Better Understanding of Learning/Instructional Theories

Authors: Yusuke Hayashi, Jacqueline Bourdeau and Riichiro Mizoguchi

Reference: International journal of Knowledge and web Intelligence, Vol. 1, No. 3/4, pp. 187-208, 2010.

Ontology engineering in engineering domains

Title: A method of structuring communication data for in-vehicle information service

Authors: K.Okamoto, M.Sasajima, N.P.Chandrasiri, K.Nawa and R.Mizoguchi

Reference: In Proc. of 2010 IEEE Vehicular Networking Conference(VNC2010), pp.144-151, Jersey City, US, December 13-15, 2010.

Title: Task-Oriented User Modeling Method and its Application to Service

Navigation on the Web

Authors: Munehiko Sasajima, Yoshinobu Kitamura and Riichiro Mizoguchi

Reference: M. Yoshikawa et al. (Eds.): DASFAA 2010 International

Workshop (SNSMW2010): Revised Selected Papers, LNCS 6193, pp. 240-251, Tsukuba, Japan, April 1-4, 2010.

Title: Characterizing Functions based on Ontological Models from an Engineering Point of View

Authors: Yoshinobu Kitamura and Riichiro Mizoguchi

Reference: In Proceedings of the Sixth International Conference on Formal Ontology in Information Systems (FOIS 2010), Toronto, Canada, May 11-14, 2010, pp. 301-314, IOS Press, 2010.

[Article\(PDF, 237KB\)](#), [publisher site](#)

Title: Modeling and Applications of Artifact Functions and Mobile-User Actions Based on Common Ontological Foundation for Goal-Oriented Processes

Authors: Yoshinobu Kitamura, Munehiko Sasajima and Riichiro Mizoguchi

Reference: Journal of the Japanese Society for Artificial Intelligence, Vol. 24, No. 5, pp. 526-536, July, 2010. **(in Japanese)**

Title: A Consideration of Quality-Attribute-Property for Interoperability of Quality Data -A Case Study of Quality Description in Nanomaterial Domain-

Authors: Shinya Tarumi, Kouji Kozaki, Yoshinobu Kitamura and Riichiro Mizoguchi

Reference: Transactions of the Japanese Soc. for Artificial Intelligence, Vol.25, No.5, pp.579-592, 2010. **(in Japanese)**

[Abstract](#) and [Article\(PDF file, 666KB\)](#)

Ontology engineering in medical domains

Title: Development of Fundamental Technologies for Better Understanding of Clinical Medical Ontologies

Authors: Hiroko Kou, Mamoru Ohta, Jun Zhou, Kouji Kozaki, Riichiro Mizoguchi, Takeshi Imai, and Kazuhiko Ohe

Reference: Proc. of International Conference on Knowledge Engineering and Ontology Development (KEOD 2010), Valencia, Spain, October 25-28, 2010.

[Article \(PDF, 467KB\)](#)

Ontology engineering in bio-informatics

Title: The RIKEN integrated database of mammals

Authors: Masuya H., Makita Y., Kobayashi N., Nishikata K., Yoshida Y., Mochizuki Y., Doi K., Takatsuki T., Waki K., Tanaka N., Ishii M., Matsushima A., Takahashi S., Hijikata A., Kozaki K., Furuichi T., Kawaji H., Wakana S., Nakamura Y., Yoshiki A., Murata T., Fukami-Kobayashi K., Mohan S., Ohara O., Hayashizaki Y., Mizoguchi R., Obata Y., Toyoda T.

Reference: Nucleic Acids Res. 39, D861-D870, 2010.

[Article \(publisher site\)](#)

2009

Ontological theory and tool

Title: The water falls but the waterfall does not fall: New perspectives on objects, processes and events

Authors: Antony Galton and Riichiro Mizoguchi

Reference: Journal of Applied Ontology, Vol. 4, No. 2, pp. 71-107, 2009.

[Article \(publisher site\)](#)

Title: Distributed reasoning with ontologies and rules in order-sorted logic programming

Authors: [Ken Kaneiwa](#) and Riichiro Mizoguchi

Reference: Journal of Web Semantics: Science, Services and Agents on the World Wide Web, 7(3), pp. 252-270, 2009.

[Article \(publisher site\)](#)

Title: Yet Another Top-level Ontology: YATO

Author: Riichiro Mizoguchi

Reference: Proc. of the Second Interdisciplinary Ontology Meeting, pp.91-101, Tokyo, Japan, February 28 - March 1, 2009.

[Article\(PDF, 159KB\)](#)

YAMATO, the next version of YATO, is also available at:

http://www.ei.sanken.osaka-u.ac.jp/hozo/onto_library/upperOnto.htm

Title: Viewpoint Management for Multi-Perspective issues of Ontologies

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