



ACSI – Artifact-Centric Service Interoperation



D6.3.1

Publications in scientific journals and conferences – First year

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Abstract

This document reports the full list of journal, and conference publications, and other related venues for publication of ACSI project achievements during its first year.

Document History

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Acronyms

Acronym	Explanation
ACSI	Artifact-Centric Service Interoperation

1. List of publications

Conforming to the dissemination action plan (D6.2), all academic and research project partners strive to report their work achievements in ACSI through related channels, including journals, conferences, and workshops. This deliverables details all disseminated publications, summarizing the scientific efforts in ACSI during its first year of activities. A ‘live’ version of this report is publicly posted on ACSI’s website at www.acsi-project.eu.

1.1. Scientific Journals

Publications in 2011

- Diego Calvanese, Giuseppe De Giacomo, Maurizio Lenzerini, and Riccardo Rosati, *View-based Query Answering in Description Logics: Semantics and Complexity*, Journal of Computer and System Sciences, 2011. To appear.
- Diego Calvanese, Giuseppe De Giacomo, Domenico Lembo, Maurizio Lenzerini, Antonella Poggi, Mariano Rodriguez-Muro, Riccardo Rosati, Marco Ruzzi, and Domenico Fabio Savo. *The MASTRO system for ontology-based data access*. Semantic Web Journal, 2011. To appear.

1.2. Conferences and Workshops

Publications in 2010

- Diego Calvanese, Evgeny Kharlamov, Werner Nutt, and Dmitriy Zheleznyakov, *Evolution of DL-Lite Knowledge Bases*, Proceedings of the 9th Int. Semantic Web Conf. (ISWC 2010), 2010, volume 6496 of *Lecture Notes in Computer Science*, pages 112-128. Springer, 2010.
- Marlon Dumas, Luciano Garcia-Banuelos¹, and Artem Polyvyanyy, *Unraveling Unstructured Process Models*, Proceedings of the 2nd International Workshop on the Business Process Modeling Notation (BPMN), Potsdam, Germany, October 2010. Springer.
- Piero Cangialosi, Riccardo De Masellis, Giuseppe De Giacomo, and Riccardo Rosati, *Conjunctive Artifact-Centric Services*, Proceedings of the 8th International Conference of Service Oriented Computing (ICSOC'10), 2010.
- De Leenheer, P, *Artifact-centric Service Interoperability in the Flanders Research Information Portal*, Proceedings of the 1st International Workshop on Future Internet Systems, collocated with FIS2010, CEUR.
- Giuseppe De Giacomo, Paolo Felli, Fabio Patrizi, and Sebastian Sardiña, *Two-Player Game Structures for Generalized Planning and Agent Composition*, Proceedings of the 24th Conference on Artificial Intelligence (AAAI'10), 2010.
- Domenico Lembo, Maurizio Lenzerini, Riccardo Rosati, Marco Ruzzi, and Domenico Fabio Savo, *Inconsistency-tolerant Semantics for Description Logics*, Proceedings of

the fourth International Conference on Web Reasoning and Rule Systems (RR 2010), 2010.

- Alessandro Artale, Diego Calvanese, and Angelica Ibanez-Garcia. *Full satisfiability of UML class diagrams*. In Proc. of the 29th Int. Conf. on Conceptual Modeling (ER 2010), volume 6412 of Lecture Notes in Computer Science, pages 317-331. Springer, 2010.

Publications in 2011

- Diego Calvanese, Giuseppe De Giacomo, Maurizio Lenzerini, and Moshe Y. Vardi. *Simplifying Schema Mappings*, Proc. of the 14th Int. Conf. on Database Theory (ICDT 2011), pages 114-125, 2011.
- Dirk Fahland, Massimiliano de Leoni, Boudewijn F. van Dongen, and Wil M.P. van der Aalst, *Behavioral Conformance of Artifact-Centric Process Models*, Proceedings of the 14th International Conference on Business Information Systems, BIS 2011, Poznan, Poland, June 15--17, 2011.
- Dirk Fahland, Massimiliano de Leoni, Boudewijn F. van Dongen, and Wil M.P. van der Aalst, *Many-to-Many: Some Observations on Interactions in Artifact Choreographies*, Proceedings of the 3rd Central-European Workshop on Services and their Composition, ZEUS 2011, Karlsruhe, Germany, February 21--22, 2011.
- Fahland, D. & Aalst, W.M.P. van der. *Simplifying mined process models: An approach based on unfoldings*. *Business Process Management*, Proceedings of the 9th International Conference, BPM 2011, Clermont-Ferrand, France, August 28-September 2, 2011.
- Fahland, D., Leoni, M. de, Dongen, B.F. van & Aalst, W.M.P. van der. *Conformance checking of interacting processes with overlapping instances*. Proceedings of the 9th International Conference, BPM 2011, Clermont-Ferrand, France, August 28-September 2, 2011.
- Babak Bagheri Hariri, Diego Calvanese, Giuseppe De Giacomo, Riccardo De Masellis, Paolo Felli. *Foundations of Relational Artifacts Verification*, Proc of the 9th International Conference on Business Process Management, BPM 2011, 2011.
- Yuxiao Hu, Giuseppe De Giacomo. *A Generic Framework and Solver for Synthesizing Finite-State Controllers*, Proc of the AAAI 2011 Workshop on Generalized Planning (GenPlan'11), 2011.
- Giuseppe De Giacomo, Yves Lesperance, Christian Muise. *Agent Supervision in Situation-Determined ConGolog*, Proc. of the 9th International Workshop on Nonmonotonic Reasoning, Action and Change (NRAC'11), 2011.
- Giuseppe De Giacomo, Maurizio Lenzerini, Riccardo Rosati. *Higher-Order Description Logics for Domain Metamodeling*, Proc. of the 25th Conference on Artificial Intelligence (AAAI'11), 2011.
- Giuseppe De Giacomo, Hector Levesque, Yves Lesperance. *Efficient Reasoning in Proper Knowledge Bases with Unknown Individuals*, Proc. of the 22nd International Joint Conference on Artificial Intelligence (IJCAI'11), 2011.
- Yuxiao Hu, Giuseppe De Giacomo. *Generalized Planning: Synthesizing Plans that Work for Multiple Environments*, Proc of the 22nd International Joint Conference on Artificial Intelligence (IJCAI'11), 2011.

- Fabio Patrizi, Nir Lipovetzky, Giuseppe De Giacomo, Hector Geffner. *Computing Infinite Plans for LTL Goals Using a Classical Planner*, Proc. of the 22nd International Joint Conference on Artificial Intelligence (IJCAI'11), 2011.
- Diego Calvanese, Magdalena Ortiz, and Mantas Simkus. *Containment of regular path queries under description logic constraints*. In Proc. of the 22nd Int. Joint Conf. on Artificial Intelligence (IJCAI 2011), 2011.
- Mariano Rodriguez-Muro and Diego Calvanese. *Dependencies: Making ontology based data access work in practice*. In Proc. of the 5th Alberto Mendelzon Int. Workshop on Foundations of Data Management (AMW 2011), 2011.
- Francesco Belardinelli, Alessio Lomuscio, Fabio Patrizi. *A Computationally-Grounded Semantics for Artifact-Centric Systems and Abstraction Results*. In Proc. of IJCAI 2011. To appear.
- Alfonso E. Gerevini, Fabio Patrizi, Alessandro Saetti. *An Effective Approach to Realizing Planning Programs*. In Proc. of ICAPS 2011. To appear.
- Fabio Patrizi, Nir Lipovetzky, Giuseppe De Giacomo, Hector Geffner. *Computing Infinite Plans for LTL Goals Using a Classical Planner*. In Proc. of IJCAI 2011. To appear.
- Francesco Belardinelli, Andrew Jones, Alessio Lomuscio; *Model Checking Temporal Epistemic Logic Using Alternating Tree Automata*, Fundamentae Informaticae. To appear.
- R. Hull and E. Damaggio and F. Fournier and M. Gupta and F. Heath III and S. Hobson and M. Linehan and S. Maradugu and A. Nigam and P. Sukaviriya and R. Vaculín, *Introducing the Guard-Stage-Milestone Approach for Specifying Business Entity Lifecycles*, Proc. of 7th Intl. Workshop on Web Services and Formal Methods (WS-FM 2010), Revised Selected Papers, Springer-Verlag, Lecture Notes in Computer Science 6551, 2010.
- R. Hull and E. Damaggio and R. De Masellis and F. Fournier and M. Gupta and F. Heath III and S. Hobson and M. Linehan and S. Maradugu and A. Nigam and P. Sukaviriya and R. Vaculín, *Business Artifacts with Guard-Stage-Milestone Lifecycles: Managing Artifact Interactions with Conditions and Events*, ACM Intl. Conf. on Distributed Event-based Systems (DEBS), 2011. To appear.
- E. Damaggio and R. Hull and R. Vaculín, *On the equivalence of incremental and fixpoint semantics for business artifacts with guard-stage-milestone lifecycles*, Intl. Conf. Business Process Mgmt. (BPM), 2011. To appear.
- R. Vaculín and R. Hull and T. Heath and C. Cochran and A. Nigam and P. Sukaviriya, *Declarative business entity centric modeling of (semi-)structured decision-driven business processes*, International Enterprise Distributed Object Computing Conference (EDOC), 2011.
- D. Fahland, M. de Leoni, B.F. van Dongen, W.M.P. van der Aalst. *Checking Behavioral Conformance of Artifacts*. BPM Center Report BPM-11-08, BPMcenter.org, 2011.
- A. Adriansyah, B.F. van Dongen, W.M.P. van der Aalst. *Cost-Based Conformance Checking using the A* Algorithm*. BPM Center Report BPM-11-11, BPMcenter.org, 2011.
- Fabrizio M. Maggi, Marco Montali, Michael Westergaard and Wil Van Der Aalst. *Monitoring Business Constraints with Linear Temporal Logic: An Approach Based on*

Colored Automata. Proc. of the 9th International Conference on Business Process Management (BPM 2011), 2011.

- Riccardo Rosati. *On the Complexity of Dealing with Inconsistency in Description Logic Ontologies*. In Proc. of the 22nd Int. Joint Conf. on Artificial Intelligence (IJCAI 2011), 2011.