FOIS 2026 Satellite Events

Proceedings of the Satellite Events of the 16th International Conference on Formal Ontology in Information Systems (FOIS 2026)

Vitória, Brazil, September 21-25, 2026

Edited by

César Bernabé | Sander van Leeuwen

and for the tracks

Ontology Showcase | Demonstrations |
Project Exhibitions | Early Career Symposium

FOIS 2026 Satellite Event Chairs

C. Bernabé, T. Hahmann	**(Ontology Showcase)**
B. Gajderowicz, C. M. Fonseca	**(Demonstrations)**
F. Toyoshima, A. Barton	**(Project Exhibitions)**
M. L. M. Campos, R. Wassermann	**(Early Career Symposium)**

https://foisconference.org/

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PREFACE

These proceedings collect the papers and extended abstracts presented in the Satellite Events of FOIS 2026. As the flagship conference of the International Association for Ontology and its Applications (IAOA), FOIS serves as an interdisciplinary nexus for researchers studying formal ontology. The conference features discussions on original theoretical and practical advancements across diverse domains, including artificial intelligence, knowledge engineering, software design, bioinformatics, and the Semantic Web.

The FOIS Satellite Events are a recurring feature of the International Conference on Formal Ontology in Information Systems (FOIS) conference series, including its 16th installment in 2026, held in Vitória, Brazil, from 21 to 25 September 2026. This year, the satellite events consisted of an Ontology Showcase track, a Demonstrations track, a Project Exhibitions track, and the Early Career Symposium (ECS). These are combined in a separate FOIS Satellite Events volume. The remainder of this preface describes pertinent details of the Ontology Showcase, Demonstrations, Project Exhibitions, and ECS. We hope this volume serves as a lasting reference for the ideas presented and the community that gathered in Vitória.

Acknowledgements

We would like to thank all authors and speakers for their contributions, and the programme committee members and additional reviewers for their timely reviewing. We would also like to extend our gratitude to the local organizers at the Federal University of Espírito Santo, and the International Association for Ontology and its Applications (IAOA) for providing organisational support.

FOIS 2026 Satellite Events

Ontology Showcase

Track Chairs

César Bernabé	University of Illinois Urbana-Champaign, USA
Torsten Hahmann	University of Maine, USA

Programme Committee

Adrien Barton	IRIT & CNRS, France
Alberto García S.	Universidad Politécnica de Madrid, Spain
Ana León Palacio	Universitat Politècnica de València, Spain
Bart Gajderowicz	University of Toronto, Canada
Claudenir M. Fonseca	University of Twente, The Netherlands
Cogan Shimizu	Wright State University, USA
Damion Dooley	Simon Fraser University, Canada
Evellin Cardoso	Federal University of Goiás, Brazil
Giacomo De Colle	University at Buffalo, USA
Isadora Valle Sousa	University of Twente, The Netherlands
Karolis Cremers	Leiden University Medical Center, The Netherlands
Katrina Schweikert	University of Maine, USA
Ludger Jansen	University of Rostock, Germany
Mirjam Stappel	Osnabrück University, Germany
Robert Pergl	Czech Technical University, Czech Republic
Rodrigo F. Calhau	Federal Institute of Espírito Santo, Brazil

The Ontology Showcase is an interactive forum designed to break down "ontology silos." It fosters early community feedback, cross-project collaboration, and the continued improvement, refinement and reuse of high-quality ontologies at all maturity stages. Chaired by César Bernabé and Torsten Hahmann, the 2026 edition received nine submissions, of which seven were accepted for publication and two for presentation only. The selected contributions span a wide range of domains and methodologies, including data annotation, measurement systems, cognitive neuroscience, digital twins, sustainability, dialogue and discourse representation, plastic pollution and climate change, clinical decision-making, and natural language processing (NLP).

Demonstrations

Track Chairs

Bart Gajderowicz	Utah State University, USA
Claudenir M. Fonseca	University of Twente, The Netherlands

Programme Committee

Clement Jonquet	University of Montpellier, France
Marek Suchánek	Czech Technical University in Prague, Czechia
Robert Pergl	Czech Technical University in Prague, Czechia
Daniel Garijo	Universidad Politécnica de Madrid, Spain
Megan Katsumi	University of Toronto, Canada
Daniele Francesco Santamaria	University of Catania, Italy
Finn Wilson	University at Buffalo, USA
Maria Rosaria Stufano Melone	Laboratory for Applied Ontology, ISTC-CNR, Italy
Elena Milivinti	University at Buffalo, USA

The Demonstrations Track complements the FOIS 2026 main track by providing an interactive forum for researchers and practitioners to showcase and discuss operational tools, systems, and methodologies across the entire ontology engineering lifecycle—including creation, maintenance, integration, evaluation, publication, and deployment. This edition, chaired by Bart Gajderowicz and Claudenir M. Fonseca, includes six accepted papers, each reviewed by at least two members of the program committee. The accepted papers focus both on domain-specific solutions (e.g., in healthcare, agriculture, and energy management) as well as general proposals for ontology design patterns and knowledge graphs.

Project Exhibitions

Programme Chairs

Fumiaki Toyoshima	Université de Neuchâtel, Switzerland
Adrien Barton	IRIT, CNRS, Université de Toulouse, France

The Research and Industrial Project Exhibitions Track invites researchers and practitioners to present planned, ongoing, or recently completed projects on formal ontologies in information systems, providing a platform to share interim results and receiving feedback on evolving research and innovation. Chaired by Fumiaki Toyoshima and Adrien Barton, the 2026 edition received two submissions, both of which were accepted for publication and presentation. The accepted papers address, respectively, the development of an ontological approach to digital transformation, with a real-world application at the Royal Dutch Association of Civil-law Notaries; and the establishment of a consortium of clinical and translational science ontologies designed to advance ontology-based interoperability and usability of data across Clinical and Translational Science Award hubs.

Early Career Symposium

Programme Chairs

Maria Luiza M. Campos	Federal University of Rio de Janeiro, Brazil
Renata Wassermann	University of São Paulo, Brazil

ECS Mentors

Torsten Hahmann	University of Maine, USA
Giancarlo Guizzardi	University of Twente, Netherlands
Martin Homola	Comenius University in Bratislava, Slovakia
Stefan Schulz	Medical University of Graz, Austria
José Maria Parente de Oliveira	Aeronautics Institute of Technology, Brazil
Maria Cláudia Cavalcanti	Military Institute of Engineering, Brazil
Joel Carbonera	Federal University of Rio Grande do Sul, Brazil
Pawel Garbacz	John Paul II Catholic University of Lublin, Poland

Designed primarily for PhD students and early-career researchers, the Early Career Symposium (ECS) offers them the opportunity to present ongoing work and receive feedback from senior academics and industry experts. Participants can refine their research ideas, methods, and results, gain practical career mentorship, and build professional networks within the FOIS community. The 2026 edition, chaired by Maria Luiza Machado Campos and Renata Wassermann, received nine submissions, of which five were accepted for publication and two for presentation only.


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