

Preface

This volume collects all papers accepted for presentation at Ontobras 2015, the VII Brazilian Ontology Research Seminar (7o Seminário de Pesquisa em Ontologias no Brasil), held on September 7-10, 2015 in Sao Paulo, Brazil. In its 7th edition, we sincerely hope Ontobras to be once more a valuable and pleasant opportunity for researchers and practitioners from Information Sciences and Computer Science to exchange their interesting ideas and experience on the exciting and broad field of Ontology, and to foster collaboration opportunities among research groups.

We received 32 submissions, from which 12 were accepted as full papers and 9 as short papers. All submissions were carefully evaluated by 3-4 reviewers, who provided excellent feedback for each work. The technical program of Ontobras2015 is also proud to include 3 keynote talks from distinguished researches: Professor Grigoris Antoniou, from the University of Huddersfield, UK; Dr. Enrico Franconi, from the Free University of Bozen-Bolzano, Italy; and Dr. Gilberto Câmara, from the National Institute for Space Research (INPE), Brazil.

We are very grateful to the authors for submitting their works, to all the program committee members for doing an excellent job, and to all the people involved in the local organization, represented by Prof. José M Parente de Oliveira, from ITA, Prof. Renata Wassermann, from USP; and Raphael Cóbe, from UNESP, for providing a concrete environment for this Seminar to occur.

The Ontobras 2015 Program
Committee Chairs
Fred Freitas
Fernanda Baiao

Table of Contents

Session I: Ontologies applied to Software Engineering

Using Ontology and Data Provenance to Improve Software Processes	1
<i>Humberto L. O. Dalpra, Gabriella C. B. Costa, Tássio F. M. Sirqueira, Regina Braga, Fernanda Campos, Cláudia M. L. Werner and José Maria N. David</i>	
An Empirical Study to validate the Use of Ontological Guidelines in the Creation of i* Models.	2
<i>Ramilton Costa Gomes Júnior, Renata Silva Souza Guizzardi, Xavier Franch, Giancarlo Guizzardi and Roel Wieringa</i>	
Exploring Ontologies for Semantic Documentation in Project Management	3
<i>Erick Bastos, Monalessa Barcellos and Ricardo Falbo</i>	

Session II: Ontology Inference

An Ontology for Collaborative Tasks in Multi-agent Systems	4
<i>Daniela Schmidt, Rafael H. Bordini, Felipe Meneguzzi and Renata Vieira</i>	
An Ontology for TNM Clinical Stage Inference	5
<i>Felipe Massicano, Ariane Sasso, Henrique Tomaz, Michel Oleynik, Calebe Nobrega and Diogo Patrão</i>	
OCIP – An OntoClean Evaluation System Based on a Constraint Prolog Extension Language	6
<i>Cleyton Rodrigues, Fred Freitas and Ryan Ribeiro De Azevedo</i>	

Session III: Ontologies Textual Applications

A Systematic Mapping of the Literature on Legal Core Ontologies	7
<i>Cristine Griffio, Joao Paulo Almeida and Giancarlo Guizzardi</i>	
Supporting FrameNet Project with Semantic Web technologies	8
<i>Paulo Hauck, Regina Maria Maciel Braga Villela, Fernanda Campos, Tiago Torrent, Ely Matos and José David</i>	
Conceiving a Multiscale Dataspace for Data Analysis	9
<i>Matheus Silva Mota and André Santanchè</i>	

Session IV: Ontology Engineering

EDXL-RESCUER ontology: an update based on Faceted Taxonomy approach.	10
<i>Rebeca Barros, Pedro Kislansky, Lais Salvador, Reinaldo Almeida, Matthias Breyer, Laia Gasparin Pedraza and Vaninha Vieira</i>	

Measurement Ontology Pattern Language Applied to Networking Performance Measurement	11
<i>Raphaela Nunes, Adriana Vivacqua, Maria Luiza Campos and Ana Carolina Almeida</i>	
The Multiple Applications of a Mature Domain Ontology	12
<i>Mara Abel, Joel Luis Carbonera, Sandro Rama Fiorini, Luan Garcia and Luiz Fernando De Ros</i>	
Short Papers	
Extended ontologies: a cognitively inspired approach	13
<i>Joel Carbonera and Mara Abel</i>	
Unificando a Comparação e Busca de Fenótipos em Model Organisms Databases	14
<i>Luana Loubet Borges and André Santanchè</i>	
An Application Ontology to Support the Access to Data of Medical Doctors and Health Facilities in Brazilian Municipalities	15
<i>Alíne Souza, Carlos Bazílio and Adriana Pereira De Medeiros</i>	
An ontology of organizational knowledge	16
<i>Anderson Beraldo De Araújo, Mateus Zitelli and Vitor Gabriel De Araújo</i>	
Ontologies in support of data-mining based on associated rules: a case study in a medical diagnosis company	17
<i>Lucelia Pinto Branquinho, Maurício Barcellos Almeida and Renata Maria Abrantes Baracho</i>	
BLO: Batata Lake (Oriximiná/PA) Application Ontology	18
<i>Adriano N. de Souza and Adriana P. de Medeiros</i>	
A model for the construction of an inter-domain ontology: Corporate Sustainability Index and the G4 Guidelines of the Global Reporting Initiative	19
<i>Tâmara Reis and Paulo Silva</i>	
Annotation-Based Method for Linking Local and Global Knowledge Graphs	20
<i>Patrícia Cavoto and André Santanchè</i>	
Abordagens para Estimar Relevância de Relações Não-Taxonômicas Extraídas de Corpus de Domínio	21
<i>Lucelene Lopes, Maria Jose Bocorny Finatto, Alena Ciulla and Renata Vieira</i>	

Program Committee

Mara Abel	Universidade Federal do Rio Grande do Sul
Joao Paulo Almeida	Federal University of Espirito Santo
Mauricio Almeida	UFMG
Anarosa Alves Franco	University of Sao Paulo
Brandão	
Fernanda Baiao	UNIRIO
Monalessa Barcellos	UFES
Marcello Bax	Federal University of Minas Gerais
Regina Braga	UFJF
Maria Luiza Campos	PPGI - IM/NCE - Federal University of Rio de Janeiro
Daniela Claro	FORMAS/LASID/DCC/UFBA
Flavio S Correa Da Silva	Universidade de Sao Paulo
Evandro Costa	Federal University of Alagoas
Cedric de Carvalho	Universidade Federal de Goiás - Instituto de Informática
Alicia Diaz	Lifia, Fac. Informatica, UNLP
Frederico Durao	Federal University of Bahia
Jérôme Euzenat	INRIA & Univ. Grenoble
Ricardo A. Falbo	Federal University of Espirito Santo
Bernadette Farias Lóscio	Federal University of Pernambuco
Roberta Ferrario	Institute for Cognitive Sciences and Technologies - CNR
Renato Fileto	UFSC
Sandro Rama Fiorini	Universidade Federal do Rio Grande do Sul
Fred Freitas	Universidade Federal de Pernambuco (UFPE)
Renata Galante	UFRGS
Fernando Gauthier	Federal University of Santa Catarina/Engineering and Knowledge Management Graduate Program
Gustavo Giménez-Lugo	Federal University of Technology-Paraná (UTFPR)
Giancarlo Guizzardi	Ontology and Conceptual Modeling Research Group (NEMO)/Federal University of Espirito Santo (UFES)
Claudio Gutierrez	Universidad de Chile
Gabriela Henning	INTEC (CONICET-UNL)
Seiji Isotani	University of Sao Paulo
Fernanda Lima	UnB (Universidade de Brasilia)
Rinaldo Lima	UFPE
Lucelene Lopes	PUCRS
Andreia Malucelli	PUCPR
Carlos Marcondes	University Federal Fluminense
Ronaldo Mello	UFSC
Ana Maria Moura	LNCC

Alcione Oliveira	Universidade Federal de Viçosa
Emerson Paraiso	PUCPR - Pontificia Universidade Catolica do Parana
Jose M Parente De Oliveira	Aeronautics Institute of Technology
Oswaldo Pessoa	Universidade de São Paulo
Carlos Eduardo Pires	UFCEG
Alexandre Rademaker	IBM Research Brazil and EMap/FGV
Kate Revoredo	UNIRIO
Márcio Ribeiro	EACH - USP
Ryan Ribeiro De Azevedo	Federal University of Pernambuco
Rodrigo Rocha	UAG - UFRPE
Renato Rocha Souza	Fundação Getulio Vargas
Ana Carolina Salgado	Center for Informatics / UFPE
Lais Salvador	Computer Science Departament - UFBA
Stefan Schulz	Institute of Medical Informatics, Statistics, and Documentation, Medical University of Graz
Sean Siqueira	Federal University of the State of Rio de Janeiro (UNIRIO)
Damires Souza	IFPB
Cesar A. Tacla	CPGEI - UTFPR
Jose Todesco	Federal University of Santa Catarina/Knowledge Engineering and Management Graduate Program
Cassia Trojahn	UTM & IRIT
Marcela Vegetti	INGAR (CONICET / UTN)
Renata Vieira	PUCRS
Renata Wassermann	University of São Paulo

Additional Reviewers

Carbonera, Joel
Freire, Crishane
Oleynik, Michel