Contents

Preface	v
Conference Commitees	vii
Introduction	
Formal Ontology and Information Systems, N. Guarino	3
Invited Papers ¹	
Basic Concepts of Formal Ontology, B. Smith	19
Basic Problems of Mereotopology, A.C. Varzi	29
Linguistic Instruments in Information Systems Design, R. van de Riet, H. Burg and F. Dehne	39
Formal Ontology	
Space-Time as a Primitive for Space and Motion, P. Muller	63
Ontological Tools for Geographic Representation, R. Casati, B. Smith and A.C. Varzi	77
Pattern as an Ontological Category, I. Johansson	86
Deontic Specification Patterns - Generalisation and Classification, P. Johannesson	95
and P. Wohed	108
Inheritance Principles and the Community of Heirs, B. Schäfer Works and Realizations, M.E. Reicher	121
Ontological Engineering	
Some Problems in the Formal Representation of Hierarchical Knowledge, D.M. Jones and R.C. Paton	135
Assessing Heterogeneity by Classifying Ontology Mismatches, P.R.S. Visser, D.M. Jones, T.M.J. Rench-Capon and M.J.R. Shave	148
Ontology Integration: Experiences with Medical Terminologies, A. Gangemi, D.M. Pisanelli and G. Steve Ontology Reuse and Application, M. Uschold, M. Healy, K. Williamson,	163
P. Clark and S. Woods	179
Conceptual Analysis and Information Systems Design	
Three Points of View in the Characterization of Complex Entities, L. Pazzi	195
Completeness and Quality of an Ontology for an Information System, R.M. Colomb and R. Weber	207

¹ The paper by David Israel did not arrive in time for publication

Ontology and Natural Language

CORELEX: An Ontology of Systematic Polysemous Classes, P. Buitelaar Construction of a Regional Ontology from Text and its Use within a Documentary System, H. Assadi	221
	236
Ontology-Based Information Integration	
An Intelligent Approach to Information Integration, S. Bergamaschi, S. Castano, S. De Capitani di Vimercati, S. Montanari and M. Vincini	253
Domain Specific Ontologies for Semantic Information Brokering on the Global Information Infrastructure, E. Mena, V. Kashyap, A. Illarramendi and A. Sheth	269
Ontology-Based Information Gathering	
The Ontological Engineering Initiative (KA) ² , V.R. Benjamins and D. Fensel Ontological Issues for Knowledge-Enhanced Search, D.L. McGuinness The Ontological Nature of Subject Taxonomies, C.A. Welty	287 302 317
Added Paper	
Lexical Semantics and Formal Ontologies, J. Pustejovsky	328
Author Index	337