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Nota di contenuto	Fulfilling Peirce's dream: Conceptual structures and communities of inquiry -- Peirce's graphs -- A pragmatic understanding of "knowing that" and "knowing how": The pivotal role of conceptual structures -- Peircean foundations for a theory of context -- The CORALI project: From conceptual graphs to conceptual graphs via labelled graphs -- Contexts: A formal definition of worlds of assertions -- Positive nested conceptual graphs -- A different perspective on canonicity -- Aggregations in conceptual graphs -- The representation of semantic constraints in conceptual graph systems -- Representation of defaults and exceptions in conceptual graphs formalism -- of viewpoints in conceptual graph formalism -- Task-dependent aspects of knowledge

acquisition: A case study in a technical domain -- Uncovering the conceptual models in ripple down rules -- Knowledge modeling using annotated flow chart -- Complex modelling constructs in MODEL-ECS -- Modeling cause and effect in legal text -- Information systems modeling with CGs logic -- Modelling and simulating human behaviours with conceptual graphs -- Conceptual graphs and formal concept analysis -- How triadic diagrams represent conceptual structures -- Concept exploration — A tool for creating and exploring conceptual hierarchies -- Logical scaling in formal concept analysis -- Organization of knowledge using order factors -- C. S. Peirce and the quest for gamma graphs -- A sound and complete CG proof procedure combining projections with analytic tableaux -- Fuzzy unification and resolution proof procedure for fuzzy conceptual graph programs -- Reasoning with type definitions -- Universal marker and functional relation: Semantics and operations -- Animating conceptual graphs -- Accounting for domain knowledge in the construction of a generalization space -- Rational and affective linking across conceptual cases — without rules -- Conceptual graphs for corporate knowledge repositories -- An experiment in document retrieval using conceptual graphs -- PORT: A testbed paradigm for knowledge processing in the humanities -- Using access paths to guide inference with conceptual graphs -- Applying conceptual graph theory to the user-driven specification of network information systems -- Generic trading service in telecommunication platforms -- Assessing sowa's conceptual graphs for effective strategic management decisions, based on a comparative study with eden's cognitive mapping -- CGKAT: A knowledge acquisition and retrieval tool using structured documents and ontologies -- The WebKB set of tools: A common scheme for shared WWW annotations, shared knowledge bases and information retrieval -- Deakin toolset: Conceptual graphs based knowledge acquisition, management, and processing tools -- EGP: Extendible graph processor -- CGKEE: Conceptual graph knowledge engineering environment -- Menu-based interfaces to conceptual graphs: The CGLex approach -- Knowledge extractor: A tool for extracting knowledge from text -- The CG mars lander -- PCCG: An operational tracked grid for creating conceptual graphs.

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### Sommario/riassunto

This book constitutes the refereed proceedings of the Fifth International Conference on Conceptual Structures, ICCS '97, held in Seattle, Washington, USA, in August 1997. The 39 full papers presented were carefully selected and revised for inclusion in the volume. Also included are 9 abstracts of conceptual graphs tools. The papers are organized in sections on knowledge representation, knowledge modeling, formal concept analysis, formal reasoning, applications of conceptual graphs, and conceptual graphs tools. This book competently documents the progress achieved in the area since the predecessor conference ICCS '96, the proceedings of which have been published as LNAI 1115.

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