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Nota di contenuto	Invited Papers -- An Introduction to Conceptual Graphs -- Trikonic Inter-Enterprise Architectonic -- Hypermedia Discourse: Contesting Networks of Ideas and Arguments -- Dynamic Epistemic Logic and Knowledge Puzzles -- Peirce on Icons and Cognition -- Conceptual Graphs -- Using Cognitive Archetypes and Conceptual Graphs to Model Dynamic Phenomena in Spatial Environments -- A Datatype Extension for Simple Conceptual Graphs and Conceptual Graphs Rules -- A Knowledge Management Optimization Problem Using Marginal Utility in a Metric Space with Conceptual Graphs -- Conceptual Graphs as Cooperative Formalism to Build and Validate a Domain Expertise -- An Inferential Approach to the Generation of Referring Expressions -- A

Conceptual Graph Description of Medical Data for Brain Tumour Classification -- A Conceptual Graph Based Approach to Ontology Similarity Measure -- A Comparison of Different Conceptual Structures Projection Algorithms -- A Conceptual Graph Approach to Feature Modeling -- From Conceptual Structures to Semantic Interoperability of Content -- Formal Concept Analysis -- Faster Concept Analysis -- The Design Space of Information Presentation: Formal Design Space Analysis with FCA and Semiotics -- Reducing the Representation Complexity of Lattice-Based Taxonomies -- An FCA Perspective on n-Distributivity -- Towards a Semantology of Music -- Analysis of the Publication Sharing Behaviour in BibSonomy -- The MILL – Method for Informal Learning Logistics -- Bilingual Word Association Networks -- Using FCA for Encoding Closure Operators into Neural Networks -- Conceptual Structures -- Arc Consistency Projection: A New Generalization Relation for Graphs -- Mining Frequent Closed Unordered Trees Through Natural Representations -- Devolved Ontology for Smart Applications -- Historical and Conceptual Foundation of Diagrammatical Ontology -- Learning Common Outcomes of Communicative Actions Represented by Labeled Graphs -- Belief Flow in Assertion Networks -- Conceptual Fingerprints: Lexical Decomposition by Means of Frames – a Neuro-cognitive Model -- Constants and Functions in Peirce's Existential Graphs -- Revelator Game of Inquiry: A Peircean Challenge for Conceptual Structures in Application and Evolution -- Short Papers -- Helping System Users to Be Smarter by Representing Logic in Transaction Frame Diagrams -- Quo Vadis, CS? – On the (non)-Impact of Conceptual Structures on the Semantic Web -- A Framework for Analyzing and Testing Overlapping Requirements with Actors in Conceptual Graphs -- Implementation of SPARQL Query Language Based on Graph Homomorphism -- Cooperative CG-Wrappers for Web Content Extraction -- Conceptual Graphs and Ontologies for Information Retrieval -- Representation Levels Within Knowledge Representation -- Supporting Lexical Ontology Learning by Relational Exploration -- Characterizing Implications of Injective Partial Orders -- DVDSleuth: A Case Study in Applied Formal Concept Analysis for Navigating Web Catalogs -- Navigation in Knowledge-Based System for HelpdeskBased on FCA -- Functorial Properties of Formal Concept Analysis -- Towards an Ontology to Conceptualize Solution Analysis Tasks in CSCL Environments.

Sommario/riassunto

This volume contains the proceedings of the 15th International Conference on Conceptual Structures (ICCS 2007), which is an annual event that, for the ?rst time, was hosted in the UK. Conceptual structures focus on the representation and analysis of concepts, events, actions and objects with applications in - search,softwareengineering, manufacturing and business.The conference brings together researchersin computer science, information technology,arti?cial int- ligence, philosophy and a variety of applied disciplines to explore novel ways that information technologies can be leveraged to assist human reasoning and interaction for tangible business or social bene?ts. Conceptual structures can be used to augment human intelligence by facilitating knowledge integration, de- sion making, the creation of intelligent software systems and the exploration of implicit structures. The theme for this year's conference was "Conceptual Structures: Kno- edge Architectures for Smart Applications." Knowledge architectures give rise to smart applications that allow enterprises to share meaning across their int- connected computing resources and to realize transactions that would otherwise remain as lost business opportunities. Conceptual structures and smart appli- tions integrate

the creativity of individuals and organizations with the prod- tivity of computers for a meaningful digital future. A focus of ICCS 2007 was on papers that apply conceptual structures in business and technological settings. Other submitted papers covered researchin conceptual structures, which is s- ported by mathematical and computational theory, including formal concept analysis, algorithm design and graph theory, and a variety of software tools.