

Towards the Notion of Formal Concept of Objects with Attributes in a Sentence

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Abstract. We consider simple and complex objects in stationary and non-stationary cases and their usage in a sentence. An object is described by a conjunction and/or disjunction of attributes in case compatibility and incompatibility of the original attributes should be taken into account. For this setting, we consider the structure of a formal concept and the structure of the sets of objects and attributes together with operations similar to those of reasoning. The relation of the resulting model to FCA is considered.

Keywords: Formal Concept Analysis, attributes compatibility, attributes incompatibility

References

1. Fomin, V.: Representation of Object with Attributes. In: Proceedings of The First International Conference “Intelligent technologies and means of rehabilitation of people with disabilities” (ITSR-2010), 23–24 December, 2010, Moscow. (2010) 233–241
2. Fomin, V.: Theoretical set semantic model of logic. Technical report, Dep. in VINITI, 13.01.88, 176-88 (1988)
3. Ganter, B., Wille, R.: Formal Concept Analysis: Mathematical Foundations. 1st edn. Springer-Verlag New York, Inc., Secaucus, NJ, USA (1999)