Domain Identification and Description Techniques

Abstract

A system to be developed is expected to provide solution of a problem. After a careful identification of domains, an explicit, precise and well-engineered description is essential to develop an accurate solution providing system. Machine domain is formal while problem domain is informal. Description is like a platform for the developers to start and finish the development activities. Four principles regarding domain descriptions include von Neuman’s principle; Principle of reductionism; Montaigne’s principle and Shanley law. Graphs and models are also vital tools of domain description.

References

1. Michael Jackson; Requirements and Specifications: a Lexicon of Practice, Principles and Prejudices; Addison-Wesley, 1995
5. Erich Gamma, Richard Helm, Ralph Johnson, John Vlissides; Design Patterns: Elements of Reusable Object-Oriented Software; Addison-Wesley 1994.

Index Terms

Computer Science

Information Sciences

Keywords

Problem domain, Machine domain, Reductionism, Analytical model, Iconic model, Analogic model