Abstract

The success of the software system is measured by the degree to which it meets the purpose for which it was intended. Requirement Engineering is the process of discovering that purpose, by identifying stakeholders and their needs and documenting these in a form that is amendable to analysis, communication and implementation. Agent–oriented concepts are becoming very popular in software engineering as modelling frameworks for requirement engineering. This paper introduces the current Agent Oriented Requirement Engineering (AORE) Methodologies. It discusses what approaches have been followed; the suitability of these approaches for agent modelling; compares these approaches in a tabular form and some conclusions drawn from review.

References

- Jennings, N. R. and Wooldridge, M. (Eds.), Agent Technology: Foundations,
  - Alexei Lapouchkian, "Modeling Mental States in Requirements Engineering – An Agent-Oriented Framework Based on i* and CASL", A thesis submitted to the Faculty of Graduate Studies in partial fulfillment of the requirements for the degree of Master of Science York University Toronto, Canada July, 2004
  - M. Jackson, System Development, Prentice-Hall, 1983
  - Carlos A. Iglesias, M. Garijo, "A Survey of Agent Oriented Methodologies"
  - Awais Rashid, Peter Sawyer, Ana Moreira, João Araújo, Early Aspects: a Model for Aspect-Oriented Requirements Engineering
Ecole Polytechnique Federale de Lausanne, Goal Driven Requirements Engineering Overview
- Bashar N. and S. Easterbrook, "Requirement Engineering: A Roadmap"
- Y. Lesperance, Steven Shapario, "On Agent Oriented Requirement Engineering"
- Paolo Donzeli, "Agents, goals and Quality in a Structured Requirement Engineering Framework-a case study"
- Paolo Bresciani and Paolo Donzeli, "REF: a Practical Agent Based Requirement Engineering Framework"
- Amund Tveit, "A survey of Agent-Oriented Software Engineering" (2001)
- S. Ratchev, E. Urwin, D. Muller, K. S. Pawar, I. Moulek, Knowledge based requirement engineering for one-of-a-kind complex systems, Jan 2002

Index Terms

Computer Science Software Engineering

Keywords

Requirement Engineering Agent Orientation Software Agent Modelling Frameworks.