



## The ProR Approach: Traceability of Requirements and System Descriptions: Theory and Practice on Using and Extending the Eclipse Requirements Modeling Framework and Its Requirements Tool, ProR (Paperback)

By Michael Jastram

Createspace, United States, 2012. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Creating a system description of high quality is still a challenging problem in the field of requirements engineering. Creating a formal system description addresses some issues. However, the relationship of the formal model to the user requirements is rarely clear, or documented satisfactorily. This work presents the ProR approach, an approach for the creation of a consistent system description from an initial set of requirements. The resulting system description is a mixture of formal and informal artefacts. Formal and informal reasoning is employed to aid in the process. To achieve this, the artefacts must be connected by traces to support formal and informal reasoning, so that conclusions about the system description can be drawn. The ProR approach enables the incremental creation of the system description, alternating between modelling (both formal and informal) and validation. During this process, the necessary traceability for reasoning about the system description is established. The formal model employs refinement for further structuring of large and complex system descriptions. The development of the ProR approach is the first contribution of this work. This work also presents ProR, a tool platform...



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