# Intelligent Software Engineering Requirements Engineering

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### **Definition of Requirements Engineering**

Requirements engineering is an interdisciplinary function that mediates between the domains of the acquirer and supplier or developer to establish and maintain the requirements to be met by the system, software or service of interest. Requirements engineering is concerned with discovering, eliciting, developing, analyzing, verifying (including verification methods and strategy), validating, communicating, documenting and managing requirements<sup>1</sup>.



## As Proposed by the Project Sponsor





## As Specified in the Project Request





## As Designed by the Senior Systems Analyst





#### As Produced by the Programmers





#### As Installed at the User's Site



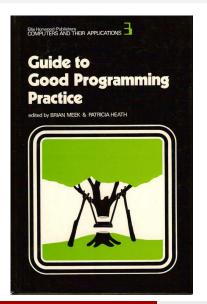


#### What The User Wanted





#### Guided to GoodProgramming Practice, 1979







## Research Topics in Requirements Engineering

- Requirements Classification
- 2 Requirements Prioritization
- 3 Feature Model Optimization
- 4 Prototype Generation



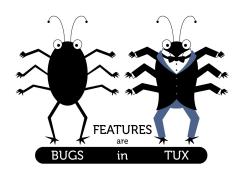
## Techniques for Requirements Engineering Research



#### Next Release Problem

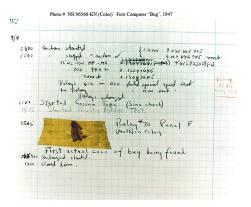


#### bug or feature?





## The First Computer Bug





#### The First Computer Bug



Jou were partly connect. I did find a buy in my apparatus, but it was not in the telephone. proper It was of the connect all the things of telephone to find conditions for its existence in all call apparatus of telephone. Institute delay was the existence of Arlamia with a finite flam phonograph for your form, for reproducing music cle. This apparatus within a first flam with a confirm with a forecast train. I will also place one in the room coeffed Eppainmental room if you will be so with a but of the connection of the connecti

Swith you could find time some afternoom to come to co





#### Combo

Combos were a design accident; lead producer Noritaka Funamizu noticed that extra strikes were possible during a bug check on the carsmashing bonus stage. He thought that the timing required was too difficult to make it a useful game feature, but left it in as a hidden one<sup>2</sup>.





#### 彩蛋



