



FITNESS FUNCTION

AN INTRODUCTION

ARCHITECTURE

- An Important stuff (Whatever that is) -
Ralph Johnson



PARTIAL LIST OF “-ILITIES”

Accessibility

Agility

Availability

Compatibility

Composability

Debugability

Determinability

Deployability

Durability

Fault Tolerance

Flexibility

Interoperability

Maintainability

Modularity

Performance

Resilience

Robustness

Security

Testability

Traceability

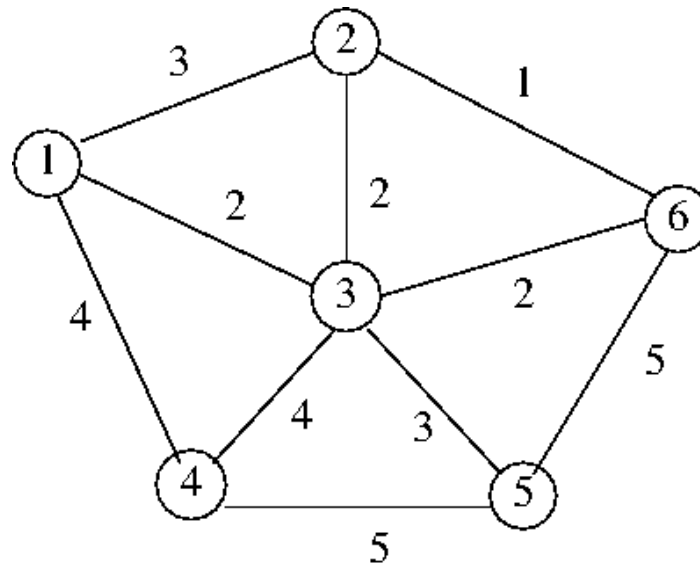
Usability

Evolvability

FITNESS FUNCTION

- A fitness function is a particular type of objective function that is used to summarize, as a single figure of merit, how close a given design solution is to achieving the set aims. -Wikipedia

- Travelling Salesman Problem



FITNESS FUNCTION IN SOFTWARE ENGINEERING

- BIT ROT
- How are our changes impact important characteristics of System attributes?
- Write Fitness function to protect those attributes.
- Hence Fitness function provides objective integrity assessment of most important architectural characteristics.



DEMO

WHEN NEEDS TO BE IDENTIFIED

- Meet with key business and technical stakeholders as early possible to identify various system attributes and to make sure how changes around those dimension will be supported



THANK YOU