

Software Engineering – 10 Years Outlook

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Future of SE

- Software Engineering will be merged into Systems Engineering
- Systems Engineering will be a fundamental course in high schools
- System Integration providers cannot survive
- Programming will be merged into Software Design

Future of SE

- Component Search will be the major work in Software Construction
- Specification and management of Requirements will be the focus of Systems Engineering
- Automatic Collection of Users' Complaints will be provided

Future of SE

- Self Evaluation Facility will be incorporated into Systems
- Energy and Environments Guidelines will be set upon Software in Systems
- Reliability Probability needs to be asserted for every software components so that the very large systems can have reliability measure

Future of SE

- Human and Social aspects plays more important role such as Values, Compassions, Ethics...

A Historical View

- 1960s – Programming is everything Software Engineering
- 1970s – Structured Programming, Design, Analysis Testing became possible
- 1980s – Information Engineering & Object Orientation Rediscovery of Data
- 1990s – Business Rules How should a system work?
- 2000s – Requirements Engineering & Business Objectives What should be done?