Software Engineering

Scientific Method & Theory

Prof. Dr. Ricardo Colomo-Palacios
Learning objectives

1. Know software engineering as a discipline.
2. Become familiar with major efforts performed by Prof. Dr. Colomo-Palacios in the discipline.
3. Know some of the future works to be performed in the next future by Prof. Dr. Colomo-Palacios.
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1. Software Engineering as a Discipline.
2. Description of some of the works performed by Prof. Dr. Colomo-Palacios in the field of Software Engineering.
3. Future & On-going works.
1. Software Engineering

Software:

- The instructions that control what a computer does (Cambridge Dictionary)
- The programs used to direct the operation of a computer, as well as documentation giving instructions on how to use them (Dictionary.com)
- The entire set of programs, procedures, and related documentation associated with a system and especially a computer system (Merriam-Webster Dictionary)
- Computer programs, procedures, and possibly associated documentation and data pertaining to the operation of a computer system (IEEE Standard Glossary of Software Engineering Terminology)

Software Engineering:

- The application of a systematic, disciplined, quantifiable approach to the development, operation, and maintenance of software; that is, the application of engineering to software (SWEBOK).
1. Software Engineering

NATO Software Engineering Conference
Garmisch, Germany, 7-11 Oct 1968
2. Past Works.


3. Future & on-going works

- Software process improvement:
  - Specific environments
- Global software development.
- Productivity in software engineering.
- Software project management.
- On premise software process.
- Software inspection process.
- Software engineering profession.
- Software engineering for specific purposes.