Software engineering is an engineering approach on a software development of systematics application.

A software engineer is a person who applies the principles of software engineering to design, develop, maintain, test, and evaluate computer software. The term programmer is sometimes used as a synonym, but may also lack connotations of engineering education or skills.

Engineering techniques are used to inform[clarification needed] the software development process which involves the definition, implementation, assessment, measurement, management, change, and improvement of the software life cycle process itself. It heavily uses software configuration management which is about systematically controlling changes to the configuration, and maintaining the integrity and traceability of the configuration and code throughout the system life cycle. Modern processes use software versioning.

In the present book, fifteen typical literatures about Software engineering published on international authoritative journals were selected to introduce the worldwide newest progress, which contains reviews or original researches on Software engineering. We hope this book can demonstrate advances in Software engineering as well as give references to the researchers, students and other related people.[1]

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[1] https://en.wikipedia.org/wiki/Software_engineering