

Fundamental Principles of Software Engineering.

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This workshop aims to bring together people interested in participating in an active debate on the fundamental principles that underlie software engineering standards. What exactly are the basis on which those standards are or should be built? What should be such principles? What lessons can we draw from experience? How can we demonstrate empirically the value of industry practices or concepts related to these fundamental principles?

In the 50 year history of software development, various methodologies, methods and techniques have been proposed to facilitate the development of software responsive to needs. Many have proved to be specific to their current state of the technology or problems. As a result, most principles taken for universal then have

proved to be less than that. It even appears to be a challenge to formulate a set of fundamental principles; it is not at all obvious what their nature should be. However, at this point in history, enough such examples of methodologies, methods and techniques have accumulated that we can begin to perceive underlying principles that may, in fact, be fundamental, hence enduring in applicability. This workshop has the objective of identifying some of these fundamental principles.

This workshop will build upon the results of a first workshop on this topic held in Montreal last October during the Forum on Software Engineering Standards Issues (SES'96). Position papers and workshop report for this first workshop can be found at :

http://saturne.info.nque.m/Labo_Recherche/Lrgl/ses96/

The Montreal workshop agreed to the following metaphor:

Conventional _Wisdom = Folklore + Fundamental_Principles

Which means that fundamental principles (FP) are discovered by stripping away the folklore component of conventional wisdom. The Montreal workshop established an initial list of criteria for identifying fundamental principles which need to be discussed further.

These criteria are:

- * FPs are less specific than methodologies and techniques;
- * FPs are more enduring than methodologies and techniques;
- * FPs should be selected or abstracted from practice;
- * Software engineering FPs should not contradict more general FPs, but there may be tradeoffs in their application;
- * An FP should not conceal a tradeoff;
- * An FP should be precise enough to be capable of support or contradiction;
- * An FP should relate to one or more underlying concepts.

Following a recommendation of the Montreal workshop, a Delphi study among internationally recognized software engineering experts is currently being conducted on what should be the set of fundamental

principles of software engineering. A presentation by the workshop co-chairs on the results of this Delphi study will open the Walnut Creek workshop.

AN EXAMPLE FUNDAMENTAL PRINCIPLE OF SOFTWARE ENGINEERING:

During the 1960's stepwise refinement was proposed by Wirth and others as an approach to developing algorithms in a manner which assured correctness. Harlan Mills and others scaled the technique to

the system development level with a method called top-down development. Guidelines regarding cohesion and coupling were formulated to

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