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Software engineering — Trial use standard for software non-functional sizing measurements

Ingénierie du logiciel — Norme expérimentale pour la quantification des caractéristiques non fonctionnelles des logiciels

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IEEE Trial-Use Standard for Software Non-Functional Sizing Measurements

Developed by the

Software & Systems Engineering Standards Committee (C/S2ESC)
of the
IEEE Computer Society

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Abstract: A method for the sizing of nonfunctional software requirements is defined in this standard. It complements ISO/IEC 20926:2009, which defines a method for the sizing of functional user requirements. Non-functional categories for data operations, interface design, technical environment, and architecture software are included in this standard.Steps to determine and calculate the non-functional size are also included. Handling requirements involving both functional and non-functional requirements are explained in this standard, which also covers how to apply non-functional sizing estimates in terms of cost, project duration and quality, and considerations of software performance in terms of productivity and quality. The combination of functional and non-functional size should correspond to the total size necessary to produce the software. The functional size and non-functional size are orthogonal, and both are needed when sizing the software. The complementarity of the functional and the non-functional sizes, to avoid overlaps or gaps between the two size methods, are described in this standard. Calculating the implementation work effort and duration of the non-functional requirements is outside the scope of this standard.

Keywords: IEEE 2430™, IFPUG, non-functional size measurements, non-functional requirements, SNAP

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