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*"La mente è come un paracadute.
Funziona solo se si apre"
A. Einstein*

Interactive Rough-Granular Computing: Toward Perception-Based Computing

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Abstract

Perception-based Computing (PBC) is one of the emerging computing paradigm. We present the approach to PBC based on the Wisdom Technology (Wistech) characterized by the metaequation:

$$\text{wisdom} = \text{interactions} + \text{adaptive_judgment} + \text{knowledge bases.}$$

In Wistech, PBC is developed using interactive rough-granular computing (IRGC). Computations in IRGC are performed on (information) granules and they are progressing by interactions of granules. We discuss how granules such as complex vague concepts can be approximated using the domain ontology approximation. Applications of the approach in real-life projects are reported.