Neuromorphic system ontology and semiotic interoperability

Weight:
3

A neuronal and genetic approach to aligning organization and information technology on organismic, complex system nature of the industal enterprises

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The concept of ProductProcess was coined by Bernard Tanous in early 1990's. The current smart/future/I4.0 industry interest denotes its relevance to address rapidly evolving technologies, products and business models.
The neuromorphic system ontology builds on the Nature's fractal structure and embedded evolution to provide a highly simple, robust and flexible modelling framework to design and monitor organizations, applications and their interactions.

Topics of interest

- Ontologies hierarchy
  - Neuromorphic reference ontology - Top level ontology
  - Neuromorphic domain ontology - Industry specialized ontology applying OBM/ABE methodology
  - Contextual inheritance : application, project, enterprise, network of enterprise
- Product and processes are the 2 faces of the same coin
- From genetic coding to morphogenetic execution
- Orchestrated and autonomous processing agents, BPMN, SFC, PFC, PPC...vs neuromorphic routing
- Fractal process homothety
- Triadic relationships and semiotic interoperability

These concepts and applications are promoted by AGHAREN under the OBM/ABE^{tm}.

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