

# Neuromorphic system ontology and semiotic interoperability

Weight:

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*A neuronal and genetic approach to aligning organization and information technology on organismic, complex system nature of the industrial 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.

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## 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
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These concepts and applications are promoted by AGHAREN under the OBM/ABE<sup>tm</sup>.

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