



The Unicist
Research Institute

Pioneers in Research since 1976



A Unicist Functionalist
Approach to Science

Research in Complexity Sciences

using Unicist Ontological Research

The Unicist Research Institute (TURI) has been the world leading private research organization in its segment since 1976. It is specialized in complexity sciences applied to the research on the roots of evolution and its application to social, institutional, business and individual evolution. More than 5,000 basic and applied researches were developed since 1976.

Experience the Functionalist Approach

www.unicist.org/unicist-contact-form-corporate.php

The discovery of the ontogenesis of evolution, the unicist logic and the roots of the functionality of intelligence allowed generating the unicist artificial intelligence, building intelligent systems, developing the unicist functional design and the conceptual protocols to simplify the development of solutions in adaptive environments.

TURI has a business arm, an academic arm and a social arm.

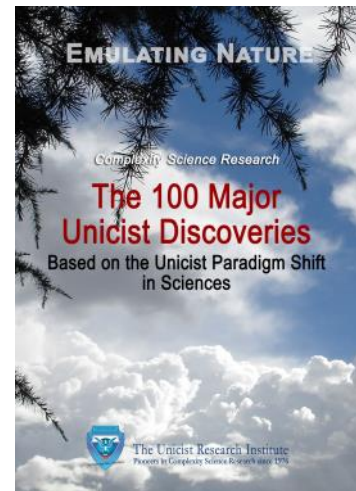
The business arm is organized as a Confederation of Solution Partners that insource in companies the unicist business technologies that were developed at TURI.

The academic arm is a business school based on the unicist evolutionary approach.

The social arm is The Unicist School that develops social and individual development projects and programs.

About The Unicist Research Institute

www.unicist.org/about-us.php



[Access](#)

Peter Belohlavek



Scientist, founder of
The Unicist Research Institute.

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Main Discoveries



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The Functionalist Approach to Science

The purpose of the unicist functionalist approach to science is to define the actions that make “things” work. It is based on the use of functional knowledge to manage the real world that integrates the know-how and the know-why of “things”.

Comparison of Scientific Approaches	Pragmatic Structural Functionalist Approach	Empirical Approach
Structure of the real world	Triadic (purpose - active function - energy conservation function)	Unknown
Application field	Adaptive and non-adaptive Systems	Systemic Environments
Actions	Binary Synchronized Actions	Independent/Interdependent Actions
Knowledge	Functional Knowledge (know how - know why)	Empirical Knowledge (know how)
Research	Real application based	Experimentation based
Logical reasoning processes	Abductive - Inductive - Deductive	Inductive - Deductive
Validation of knowledge	Destructive Testing	Falsification
Benchmarking	Homology based	Analogy based
System type	Any kind of systems - needed for adaptive systems	Systems with closed boundaries
Type of solutions	Functional and Operational Solutions	Operational Solutions
Complex adaptive systems approach	Managing Functionality, Objects and Catalysts	Managing Variables

Unicist Binary Actions

Unicist binary actions are needed to ensure the functionality of adaptive processes. Binary actions are two synchronized actions to ensure results in adaptive environments. They include the use of objects and catalysts.

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Unicist Functional Design

The unicist functionalist design is based on the use of the ontogenetic maps that define the functionality of adaptive entities. The input is the conceptual structure of an entity, and the output is its operational design.

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Unicist AI

The Unicist fundamentals-based AI is based on the use of the ontogenetic maps of the concepts and fundamentals that drive the functionality of the processes involved. It uses indicators and predictors as an input to the inference engines.

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Organization of The Unicist Research Institute

The Unicist Research Institute has been the pioneer in complexity sciences applied to evolution. It was one of the precursors of the 4th Industrial Revolution that introduced the unicist ontogenetic maps to deal with adaptive systems.

The more than 5,000 basic and applied researches are the working capital of the academic and business arms. They include the necessary knowledge, technologies, and fundamentals-based AI, to manage social and business environments as adaptive systems. These solutions are provided to the market by its business arm and its academic arm.

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The Future Research Lab

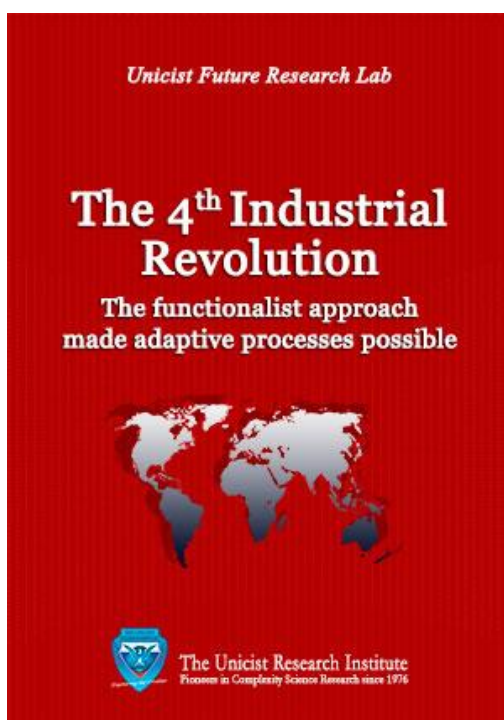
Unicist Country Future Research

The unicist conceptual approach to Future Research is used for the building of future scenarios of countries and markets.

This approach to future research is based on inferring the future based on the laws of evolution established by the ontogenetic intelligence of nature, which allowed developing the unicist ontology of evolution.



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[Unicist Country Future Research](#)

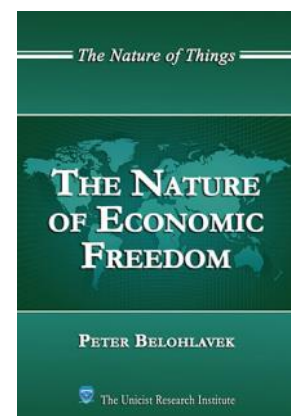
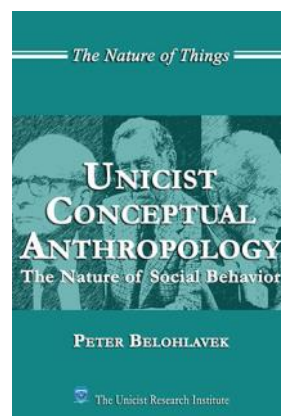
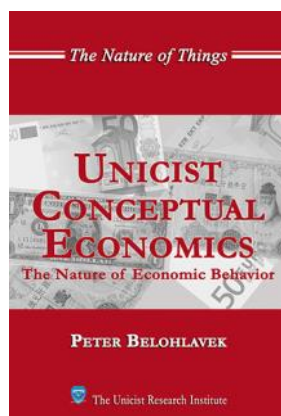
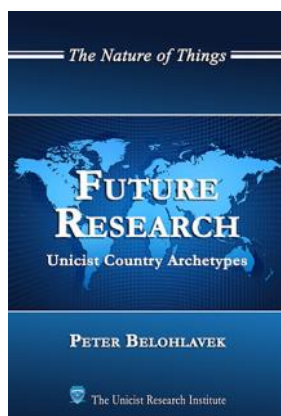


[Access Unicist Future Studies](#)

Unicist Archetypes of Countries

• Algeria • Argentina • Australia • Austria • Belarus • Belgium • Bolivia • Brazil • Cambodia • Canada • Chile • China • Colombia • Costa Rica • Croatia • Cuba • Czech Republic • Denmark • Ecuador • Egypt • Finland • France • Georgia • Germany • Honduras • Hungary • India • Iran • Iraq • Ireland • Israel • Italy • Japan • Jordan • Libya • Malaysia • Mexico • Morocco • Netherlands • New Zealand • Nicaragua • Norway • Pakistan • Panama • Paraguay • Peru • Philippines • Poland • Portugal • Romania • Russia • Saudi Arabia • Serbia • Singapore • Slovakia • South Africa • Spain • Sweden • Switzerland • Syria • Thailand • Tunisia • Turkey • Ukraine • United Arab Emirates • United Kingdom • United States • Uruguay • Venezuela • Vietnam

Learn about the Developments in the Social Field



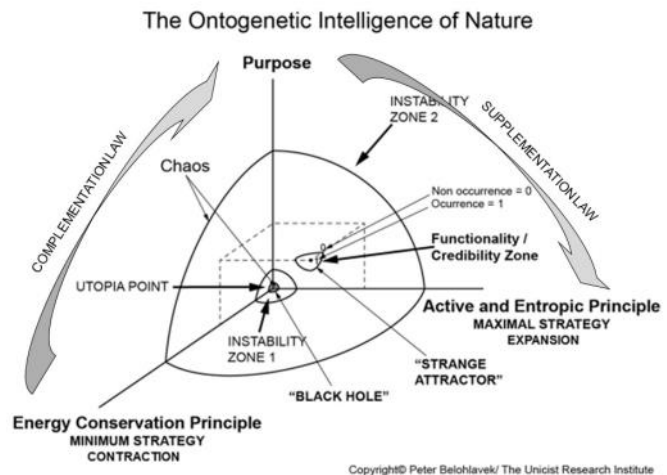
Research Project 2020/2023

Objective

Confirm the Unified Field of the Macro- and Microcosmos in Physics, Biology and Social Behavior.

The Project includes:

1. The confirmation of the unified field management of the macro- and microcosmos in physics, biology and social behavior.
2. The development of an inference engine, based on Unicist AI, to manage the unified field of social and business evolution.



The ontogenetic intelligence of nature defines the nature of an entity. As such, its structure was named unicist ontology and the name given to this intelligence was concept.

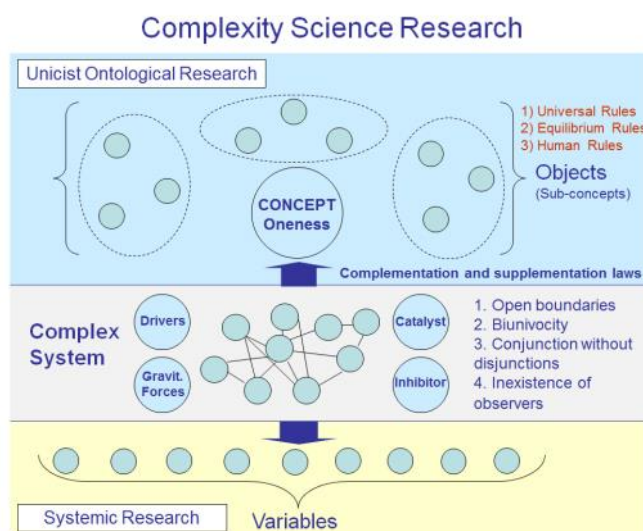
The integration of the unified field of the macro- and microcosmos has been faced in physics to understand the rules that regulate the universe in its oneness.

The unicist theory approached the structure of evolution in order to find the universal rules that regulate the evolution both in the macro- and microcosmos.

It integrates physics, life-sciences and social sciences. The project has been ongoing since 1/2/2020.

Output of the Research

This research project is developed by decentralized research groups that are managed from Houston.



The project is open to the participation of research organizations and groups that are developing basic research on the functionality of the “unified field”.

1. The conclusions of this research project will be fully published and open to the community.
2. The unicist inference engine will be open as a free license that can be used in the development of systems and applications indicating its use as “Unicist AI”.

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Scientific Contributions to Manage Complex Environments

In Scientific Research - 1980: Development of a unicist ontological methodology for complex systems research, substituting the systemic approach to research adaptive systems. **2014:** The integration of the unified field of macro and micro behavior. **2015:** Development of the destructive and non-destructive tests to research adaptive environments. **2021:** Discovery of the universal functional structure of things.

In Life Sciences - 1988: Discovery of the functional structure that regulates evolution and the unicist ontological structure of living beings as a unified field. **2006:** Discovery of the unicist ontological algorithm of evolution and involution. **2008:** Discovery of the two types of integration, complementation and supplementation, of elements in complex adaptive systems. **2012:** Discovery of the unicist ontology of biological entities. **2013:** Confirmation of the unicist ontology of viruses. **2014:** Discovery of the ontological structure of chronic diseases. **2014:** Discovery of the structure of therapeutics. **2015:** Discovery of the ontological structure of health. **2016:** Development of the Scientific Foundations of Medicine. **2021:** Discovery of the unicist ontology of the DNA.

In Complexity Sciences - 1998: Development of the unicist ontology emulating the ontogenetic intelligence of nature. **2003:** Discovery of the anti-concepts that work as antimatter. **2006:** Development of objects to manage human adaptive systems emulating the structure of nature. **2011:** Discovery of the unicist ontology of complex adaptive systems. **2014:** Discovery of the behavior of objects in complex adaptive systems. **2015:** Discovery of the essential opposition but operational complementation between the active function and the energy conservation function of concepts. **2017:** Discovery of the unicist ontology that integrates the wide and restricted contexts. **2017:** Discovery of the origin of root causes in adaptive environments.

In Information Sciences - 2002: Development of unicist ontogenetic based ontologies replacing the empirically structured ontologies. **2014:** Development of unicist adaptive robotics. **2015:** Development of prototypes. **2016:** Discovery of the nature of conceptual design. **2018:** Discovery of the ontogenetic map to emulate the unified field of adaptive environments. **2018:** Development of the unicist cognitive systems. **2019:** Development of XD-Expert Systems. **2021:** Development of business cobots.

In Future Research and Strategy - 1984: Modeling of the ontological structures that allow inferring the evolution developing the ontogenetic maps of human adaptive systems. **2014:** Confirmation of the functionality of ethical intelligence in future research. **2015:** Discovery of the unicist ontology of personal strategies. **2016:** Discovery of the nature of entrepreneurial strategies. **2017:** Discovery of the double dialectical tactics. **2019:** Discovery of business catalysts. **2022:** Discovery of the structure of risk management.

In Logic - 1986: Development and formalization of the integrative and the unicist logic. **2013:** Functionality of Dualistic Logic in complex environments. **2013:** Discovery of the structure of aprioristic fallacies.

In Anthropology - 1986: Discovery of the “invariables” of human behavior. **1997:** Discovery of the double dialectical behavior. **2008:** Discovery of the anthropological lifestyles. **2010:** Discovery of the institutional and social viruses. **2012:** Discovery of the integration of ontogeny and phylogeny. **2012:** Discovery of the stagnant survivors’ role in societies. **2012:** Discovery of the unicist ontological structure of aptitudes, attitudes and intentions. **2013:** Development of the unicist ontology of cultural adaptiveness & over-adaptiveness. **2014:** Synthesis of Conceptual Anthropology. **2014:** Discovery of the Cultural, Institutional, Individual and Social Archetypes. **2015:** Discovery of the functionality of rationalism and subjectivism as social and individual addictions. **2016:** Discovery of the nature of innovation processes. **2017:** Discovery of the context of social dysfunctional utopias. **2019:** Discovery of Social Catalysts. **2022:** Discovery of the structure of individual purposes.

In Economic Science - 1989: Discovery of the unicist ontological structure of Economics. **1998:** Discovery of the unicist ontological algorithm of the price elasticity of demand. **2004:** Discovery of the ontogenetic structure of economic models and their functionality. **2011:** Discovery of the ontology of currency and inflation. **2012:** Discovery of the ontology of the industrialization level. **2012:** Discovery of the unicist ontology of the overcoming of scarcity. **2012:** Pricing of Futures and Options. **2012:** Discovery of the unicist ontology of speculative manipulation. **2014:** Synthesis of Conceptual Economy. **2015:** Discovery of the unicist ontology of economic freedom.

In Political Science - 1990: Development of the ontological algorithm and the ontogenesis and phylogeny of ideologies and their functionality. **2013:** Development of the unicist ontology of Social, Economic and Political Democracy.

In Social Sciences - 1993: Discovery of the collective unconscious and the unicist archetypes of cultures. **2012:** Discovery of the role of stagnant survivor elites in the stagnation of segments or cultures. **2016:** Discovery of the nature of social networks. **2020:** Discovery of the unicist ontology of evolutionary constructivism. **2020:** Discovery of the nature of counter cycle building.

In Linguistics - 2004: Discovery of the unicist ontological algorithms of natural, ambiguous and figurative languages and the unicist ontology of words. **2014:** Development of semantic objects. **2015:** Discovery of the ontological structure of subliminal communication. **2020:** Discovery of the Unicist Ontology of the Evolution of Languages.

In Mathematics - 1996: Development of the conceptual basis of interdependent, dependent and independent variables. **2014:** Development of the mathematical foundations of reality indicators.

In Philosophy - 1994: Development of the unicist ontology integrating philosophy, science and action in a unified field. **1997:** Refutation of Hegel’s and Marx’s dialectics and the formulation of the laws of the double dialectics.

In History - 2000: Development of a historical analysis methodology based on the unicist double dialectics.

In Cognitive Science - 2001: Development of a methodology to construct knowledge with existing information through an integrative logic. **2002:** Development of the unicist reflection methodology to deal with the nature of reality. **2006:** Discovery of the object driven organization of mental processes and the development of cognitive objects. **2008:** Development of the ontological algorithms of fundamental analysis. **2013:** Development of the unicist ontology of erudition and wisdom (observers vs. participants). **2014:** Discovery of the structure of the emulation of reality. **2015:** Discovery of the unicist ontology of conceptualization. **2018:** Discovery of the triadic functionality of conscious intelligence. **2018:** Development of the Unicist Artificial Intelligence. **2020:** Discovery of the Unicist Ontology of Functional Knowledge. **2021:** Development of the unicist theory of functionality. **2022:** Discovery of the structure of decision rules.

In Education - 1979: Discovery of the ontogenetic algorithms of learning which has given scientific sustainability, amongst others, to Piaget. **2014:** Discovery and development of learning objects. **2015:** Development of Reflection Driven Education. **2016:** Discovery of the nature of learning by teaching.

In Psychology - 1984: Discovery of human ontointelligence to deal with adaptive systems. **2003:** Discovery of the unicist ontological structure of fallacies, the functionality of anti-intelligence and anti-intuition. **2004:** Discovery of the double dialectical thinking process. **2005:** Discovery of the unicist ontology and evolution laws of human essential complexes. **2011:** Discovery of the ontology of conscious behavior. **2012:** Discovery of the ontology of complementation of thinking processes. **2012:** Discovery of the unicist ontology of psychopathy. **2014:** Discovery of the structure of subliminal decision-making. **2014:** Synthesis of Conceptual Psychology. **2015:** Functionality of concepts as behavioral objects. **2016:** Discovery of the nature of human metamorphosis. **2016:** Discovery of the functionality of thinking processes. **2017:** Discovery of the context of personal dysfunctional utopias. **2017:** Discovery of the nature of self-criticism. **2021:** Discovery of the functionality of neurosis. **2022:** Discovery of personal potential energy.

In Semiology - 2012: Discovery of the unicist ontology of semiosis as a complex adaptive system. **2015:** Development of semiotic role objects. **2017:** Development of the semiotic research groups. **2022:** Discovery of the semiosis of music.



Contact information

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Community



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