

## ***CURRICULUM VITAE***

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### ***Biographic data***

Birth date: July 5, 1956  
Birthplace: Shabla, Bulgaria  
Marital status: married (1985), with one daughter (1986)

### ***Education***

Secondary education: English Language School, Varna, 1971 – 1975  
Higher education: University of Sofia, specialty - philosophy; second specialty - English language, 1977 – 1981

### ***Post-graduate study***

Department of Theory of Knowledge, Institute of Philosophy, Russian Academy of Sciences 1983 – 1987; academic degree of Doctor of Philosophy – philosophical sciences conferred, 1987

Doctoral dissertation: "Visual Ontologies in Cultural Systems". IFAN, Moscow, 1987, 167 p. (in Russian)

The syntactic preconditions of human constructive action in space are analysed. A solution to Noam Chomsky's problem of the "generative grammar" of this action is proposed. A project for a "spatial generative grammar", including its deep structures and transformation rules is developed.

### ***Employment record***

Research fellow I-st Degree, Section of Ontology and Epistemology, Institute of Philosophical Research, Bulgarian Academy of Sciences, 1993 – present

Research fellow II-nd Degree, Section of Philosophical Anthropology, Institute of Philosophical Research, Bulgarian Academy of Sciences, 1989 – 1993  
Assistant Professor of Philosophy, Higher Institute of Economics, Varna, 1982

### ***Linguistic and scientific background***

Foreign languages: English and Russian – fluently  
Basic knowledge of German, Italian, and French  
Fair knowledge of Greek

Computer skills: Hardware: IBM-PC  
Software: operating system MS-DOS, MS Office, Computerized typesetting system TeX,  
MATLAB software package for scientific numeric computation

Scientific background:

Mathematics: Mathematical analysis,  
Background in Nonlinear Dynamics and Chaos Theory  
Logic: Propositional and Predicate logic

### ***Scholarly awards***

Visiting Fellowship under the Oxford Colleges Hospitality Scheme for East European Scholars. Project: "*Synergetic Model of Consciousness*". Wolfson College, Oxford, UK, July/August, 1994

Soros Fund Research Grant for the project: "*Values and Stability during a Period of Social Polarization*" (1994-96)

Visiting Fellowship at the Department of Philosophy, University of Rochester, U.S.A., September, 1996

Greek State Scholarships Foundation (IKY) grant for the research project: *Dynamics of Complex Information Systems*, University of Patras, Greece, 1 December, 1998 – 1 December, 1999

Alexander S. Onassis Foundation Visiting Fellowship at the Athens' Academy and the University of Patras, Greece, under a research project on the *Dynamics of Hierarchical Systems* – 1 November 2000 – 31 October 2001

### ***Membership into international scientific and scholarly societies***

The American Association for Artificial Intelligence (U.S.A.)  
The Moscow Forum of Synergetics (Russia)  
The Hastings Center (U. S. A.)  
The Bulgarian Philosophical Association

## *International research cooperation*

### *Participation in world congresses of philosophy*

XIX-th World Congress of Philosophy, August, 1993, Moscow, Russia

Report: *"Human Consciousness in a Co-evolutionary Perspective"*. Published in the Congress' Proceedings.

XX-th World Congress of Philosophy, August, 1998, Boston, U.S.A.

Paper: *"Do Attractors Exist in Physical Space: The Truth is Out There."* Published on website: [www.paidea.bu.edu](http://www.paidea.bu.edu)

XXI-st World Congress of Philosophy, August, 2003, Istanbul, Turkey

Paper *'The Spontaneous Processes: Temporal Aspects'*. Published in the Congress' Proceedings.

### *Participation in scientific conferences abroad*

- Two conferences in Bioethics (Prague, 1991 and Brno, 1991, Czech republic), organized by the Hastings Center, USA
- Founding conference of the Moscow Forum of Synergetics (Moscow, Russia, 1996)
- Conference on the problems of the New democracies in Southeast Europe (Rochester, USA, 1996)
- Annual conference of the Pavlovian society (Baltimore, USA, 1996)
- 8<sup>th</sup> congress of the International association "Cosmos and Philosophy" (Nicosia, Cyprus, 1999)
- 14<sup>th</sup> International school in Nonlinear dynamics "Chaos and Complexity", (University of Patras, Patras, Greece, 2001)
- 5<sup>th</sup> International Gathering in Biosemiotics (University of Urbino, Urbino, Italy, 2005)

(For the topics of the reports, please cf. the List of publications)

### *In Bulgaria*

- Chairman of the Organizing Committee of the International Advanced Research Workshop "Mind, Reality and Values", 18-22 August, 1996, Mediterranean Club, Roussalka, Bulgaria

Editor of the publication of the full reports at the workshop "Mind, Reality and Values" by Publishing House "Rakurs", Sofia, 1996 (the book is in English and is available upon request)

- Participation with scientific reports at all (also as a Member of the Organizing Committee of some) sessions of the International Varna Philosophical School since 1990; Member of the Editorial board of some of the conference proceedings
- Participation with scientific reports, as a Member of the organizing Committee and a Member of the Editorial board of a series of International conferences on the Methodology of mathematical modelling  
(For details, please cf. the List of publications)

***Field of research interests***

Intelligence, structural stability, order and control in life, information and governance systems' dynamics

**LIST OF PUBLICATIONS**

***Monographs***

- [1] Complexity and meaning, or about intelligence Faber, V. Turnovo, 2004, 276 p. (in English) (*an electronic copy is available upon request*)
- [2] Chaos in Biological Systems (together with Elka Yankulova). Faber, V. Turnovo, 2004, 286 p.

***Studies developed during fellowships abroad***

- [1] The Dynamics of Complex Information Systems: Theoretical Aspects and Ontological Correlations - a. study under the IKY 1998/99 postdoctoral fellowship programme
- [2] The Hidden Hierarchy – a study on hierarchical structures and chaos control developed under the Alexander S. Onassis postdoctoral fellowship programme.

***Studies developed in the Institute of Philosophical Research, Sofia***

- [1] *Instability and Rationality*. Institute of Philosophical Research, Sofia, 1990, 65 p. study (in Bulgarian)
- [2] *Real versus Artificial Intelligence, or What Actually the Brain Does with the Information Introduced in It*. Institute of Philosophical Research, Sofia, 1991, 12 p. study (in Bulgarian)
- [3] *The Philosophy of Self-Organization: Nonstationarity and Subjectivity*. Institute of Philosophical Research, Sofia, 1994, 55 p. study (in Bulgarian)
- [4] *Mental Structures and Events: Problems of Their Empirical Identification and*

*Theoretical Interpretation.* Institute of Philosophical Research, Sofia, 1999 – 100 p. study (in Bulgarian)

### ***Some publications abroad***

- [1] *Human Consciousness in a Co-evolutionary Perspective.* XIX World Congress of Philosophy, Moscow, 22 - 28 August, 1993. Proceedings, vol. I, Section No 9 (in English)
- [2] *Virtual Information Systems.* In: Integrative Physiological and Behavioral Science, New Brunswick, NJ, U.S.A.: Transaction Periodicals Consortium, Rutgers Univ, vol. 33, issue 1, 1998 pp. 41-48 (In English)
- [3] *Human Mind and Cosmological Evolution.* 'Diotima'. Revue de recherché philosophique, Paris, 2001, vol. 29, pp. 55-58 (in English)
- [4] *Cooperativeness and Stability: A Crucial Test for the Anthropic Principle.* 'Diotima'. Revue de recherche philosophique, Paris, 2001, vol. 29, pp. 172-174 (in English)
- [5] *Visualization of Complex Dynamics.* Accepted for publication in 'Diotima', Revue de recherche philosophique, Paris, 2003, vol. 33 (in English)
- [6] *Values and Stability during a Period of Social Polarization.* In: Civil Society in South East Europe. Rodopi, Amsterdam – New York, NY, 2004, pp. 147-151 (In English)
- [7] *Irrationality: Psychological, Ethical and Legal Aspects.* International Journal of Medical Law, Israel (to be published in English).

### ***Other publications***

- [1] *Epistemological Status of Secondary Qualities.*  
In: Personality, Philosophy, Culture, vol. III, IFAN, Moscow, 1984, pp. 79 - 86 (in Russian)
- [2] *Origination of Artificial Spatial Constructions.*  
In: Proceedings of the I-st Annual Conference of Bulgarian Post-Graduate Students CISTI, Sofia, 1985, 5 p. (in Russian)
- [3] *Visual Ontologies in Cultural Systems.*  
IFAN, Moscow, 1987, 24 p. abstract (in Russian)
- [4] *Epistemological Principles Underlying the Investigations in Artificial Intelligence.*  
In: Methodology, Modelling, Computers, vol. IV, VTU, Veliko Turnovo, 1989, pp. 65 - 68 (in Bulgarian)
- [5] *Indefiniteness and Nonstationarity.*  
In: Methodology of Mathematical Modelling, vol. I, Publishing House of the Bulgarian Academy of Sciences, Sofia, 1990, pp. 290 - 293 (in English)
- [6] *Old - Young Relationships and Social Justice in Bulgaria.*  
In: Proceedings of the III-rd International Conference on Bioethics, Prague, 1991, SIGNA, Brno, Czech Republic 1991, pp. 27 - 28 (in English)
- [7] *Human Consciousness: A Nonequilibrium Model.*  
In: Methodology of Mathematical Modelling, vol. III, Sofia, 1992, pp. 125 - 128 (in English)
- [8] *A Deductive Model of the Evolution of Self-Organizing Systems.*

- In: Logic and Applications. Proceedings of the Second International Symposium on Logic and Applications, May 29 - June 1, 1992, Varna, pp. 165 - 168 (in English)
- [9] *Dobroudja Coastal Region: Environmental Problems and Perspectives in the Context of the Black Sea Zone for Economic Cooperation.*  
A report at the International Meeting on Bioethics, November, 1992, Brno, Czech Republic, 7 p. (in English)
- [10] *Human Consciousness in a Macro-evolutionary Context.*  
Journal 'Philosophical Alternatives', No 11/ 2, 1992, pp. 78 – 89 (in Bulgarian; an English translation is available, too)  
The paper was reviewed by Prof. Ermanno Bencivenga, Dept. of Philosophy, University of California, Irvine, and got positive references by: Prof. Patrick Suppes, Lucie Stern Professor of Philosophy, Dept. of Philosophy, Stanford University, Prof. John R. Searle, Dept. of Philosophy, University of California, Berkeley, and Prof. Walter J. Freeman, Dept. of Molecular & Cell Biology, University of California, Berkeley
- [11] *Nonequilibrium Balance: Concerning the Structural Reform of the Bulgarian Academy of Sciences.* "Culture", January 21, 1993 (in Bulgarian)
- [12] *Synergetic Scenarios of the Evolution of Social Structures.*  
In: Philosophical Investigations, vol. II: Philosophical Conceptions of the Social Change. Institute for Philosophical Research, Sofia, 1993, pp. 56 - 66 (in Bulgarian)
- [13] *On a Possible Symmetrical Metastructure of Ontological Space.*  
In: Transcendental Philosophy, Science and Ethics. APIS'90, Sofia, 1993, pp. 71 - 80 (in Bulgarian)
- [14] *Self-organization Theory and Dialectical Logic.*  
Journal "Philosophical Alternatives", No 3/1993, pp. 88 - 89 (in Bulgarian)
- [15] *Symmetrically Distributed Information Processing.*  
In: Methodology, Modelling, Computers. Veliko Turnovo University "St. St. Cyril and Methodius", 1993, vol. IV, pp. 27 - 30 (in Bulgarian)
- [16] *Should We Expect the Consecutive Turn in Human History?*  
Philosophical Alternatives, book 1/1994, pp. 92-102 (in Bulgarian)
- [17] Dimitrov A., Krikoryan R. *Civilizations, science, values.*  
Philosophical Alternatives, Book 5/1994, pp. 186-188. (in Bulgarian)
- [18] *Dimitrov, A. The Ontological Status of Qualia Revisited.*  
In: Innovations in Economics, Philosophy and Culture. International Institute for Intercultural Contacts "Istros", Sofia, 1995, pp. 90-102 (in Bulgarian)
- [19] Dimitrov A. *Open Identities.* (An abstract)  
In: Moscow Forum of Synergetics: "The Sustainable Development in the Changing World". Abstracts. IFRAN, Moscow, 1996, pp. 10-12. (in English)
- [20] Dimitrov A. *On Some Symmetry Breakings of the Synergetic Categories' Scheme.* (An abstract)  
In: Moscow Forum of Synergetics: "The Sustainable Development in the Changing World". Abstracts. IFRAN, Moscow, 1996, p. 51. (in Russian)
- [21] *Dimitrov A. Popper's Anti-Essentialism and Ontology: the Problem of Existence.*  
In: Philosophy and Humanism: K. Popper, A. Toynbee and the Problems of the New East European Democracies. Institute for Philosophical Research, Sofia, 1996, pp. 208-212 (in Bulgarian)
- [22] *Popper's Anti-essentialism or about the Consecutive Refutation of Reality.*

- 'Philosophical Alternatives' 2/1996, pp. 57-61 (in Bulgarian)
- [23] *The Social Elite and the Middle Class in the Post-totalitarian Transition*.  
In: Science, Economics, Culture. International Institute for Intercultural Contacts - Istros, Sofia, 1996, pp. 94-101 (in Bulgarian)
- [24] *The Statistical Nature of the Ontic Groundworks*.  
In: Universal and Particular. Papers from the 20<sup>th</sup> session of the Varna International Philosophical School, 1988. Institute for Philosophical Research, 1998, pp. 69-73 (In English)
- [25] *Chaos and Symmetry*.  
In: Philosophy and Society. A Union of the Bulgarian Scientists Publication, Sofia, 2000, pp. 83-87 (in Bulgarian)
- [26] *Fractals and Nonlinear Information Processing*.  
Proceedings of XXI Varna International Philosophical School, 29 May – 1 June, 2000. Institute for Philosophical Research, Sofia, 2001, pp. 82-86 (in English)
- [27] *Informational Dynamics in Characteristic Points of Phase Space: Ontological Aspects*.  
In: Ontology and Science. A Union of the Bulgarian Scientists Publication, Sofia, 2000, pp. 109-115 (in Bulgarian)
- [28] *Semantics and vacancy, or on the origin of the intelligent behaviour*. In: Philosophy and Education. A Union of the Bulgarian Scientists Publication, Sofia, 2004, pp. 125-132
- [29] Intelligence and self-organization. In: Paradoxes and Reality, Faber, V. Turnovo, 2005, pp. 66-76