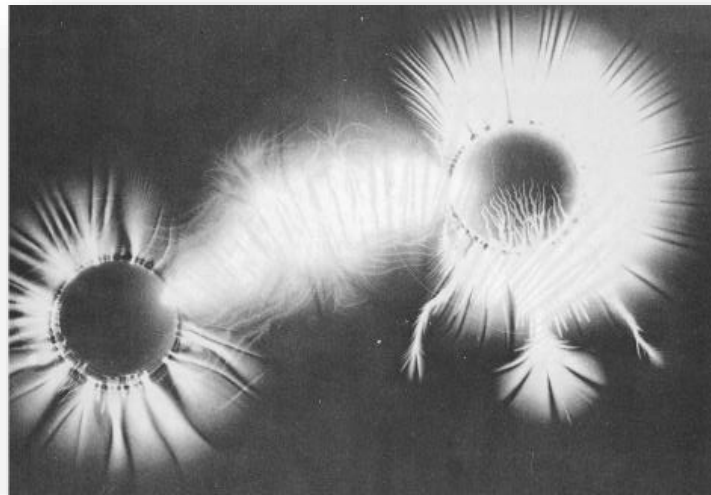


Coordinator Cornelia Guja

***The Auras of Bodies -
Interfaces with the Cosmos***

**Introduction
to Informational Integronics**



Top cover image: Anodic electronographic discharge at the interface between a microscope quartz slide sitting on glass electrode (gray region is quartz slide while black region is the air nearby).

Back cover image: Cathodic electronographic discharge at the interface between a microscope quartz slide sitting on glass electrode (gray region is quartz slide while black region is the air nearby).

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Coordinator Cornelia Guja

***The Auras of Bodies -
Interfaces with the Cosmos***

Introduction to Informational Integronics



**Editura Academiei Oamenilor de Știință din România
2022**

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*The volume “The Auras of Bodies – Interfaces with the Cosmos”
was awarded “Iuliu Hațieganu” Prize by the Romanian Academy
in 1995.*

In memory of the excellent collaboration of the authors of the present volume (1987-1992), colleagues from “Francisc I. Rainer” Institute of Anthropology of the Romanian Academy and from other institutes from Romania who passed away over the years (1993-2022).

To my husband Nicolai.

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PREFACE

The volume *“The Auras of Bodies - Interfaces with the Cosmos”* written by a worthy pluri-disciplinary group of researchers, is a pleasant surprise for readers of various ages and levels of culture.

It is structured around a key question which may be summarized by “What is living and nonliving around us?”.

In a very wide range of significances, considered experimentally and theoretically, one may outline different conceptions and formulae regarding a possible answer. Nature is characterized by variety, variability, evolution and great mobility. And yet could it be possible that at their foundation might be certain patterns that precede the genetic tendencies of each object or being?

Hegel says that “Nature is a Reason that is made”. We could therefore try to understand that at the basis of phenomena, observable or not, there is a deep reason whose archetypes keep perpetuating from oldest times.

In the first part interdisciplinary aspects of integration by coexistence are revealed as a working instrument that is closer to reality during research.

The ideas in the presented material prove that science is not given, it is continually made, and its truths are not dogmas.

Enthusiastic and constant collaborators in the field of frontier sciences, the authors of the second part of the book distinguish themselves by their team work. They unite their efforts in order to demonstrate that “everything depends on everything”, in a very up to date direction in human knowledge, offering a reliable antenna to receive the future.

The authors make comments on the intuition and electronographic experiments that led them to the presented observations, considering the body auras as an interface between “bio” and “cosmos”. An exciting text is attached to the original iconography. A series of viewpoints are presented regarding the phenomenological interrelations that imply the shapes of the bodies and particular references to the anthropological space.

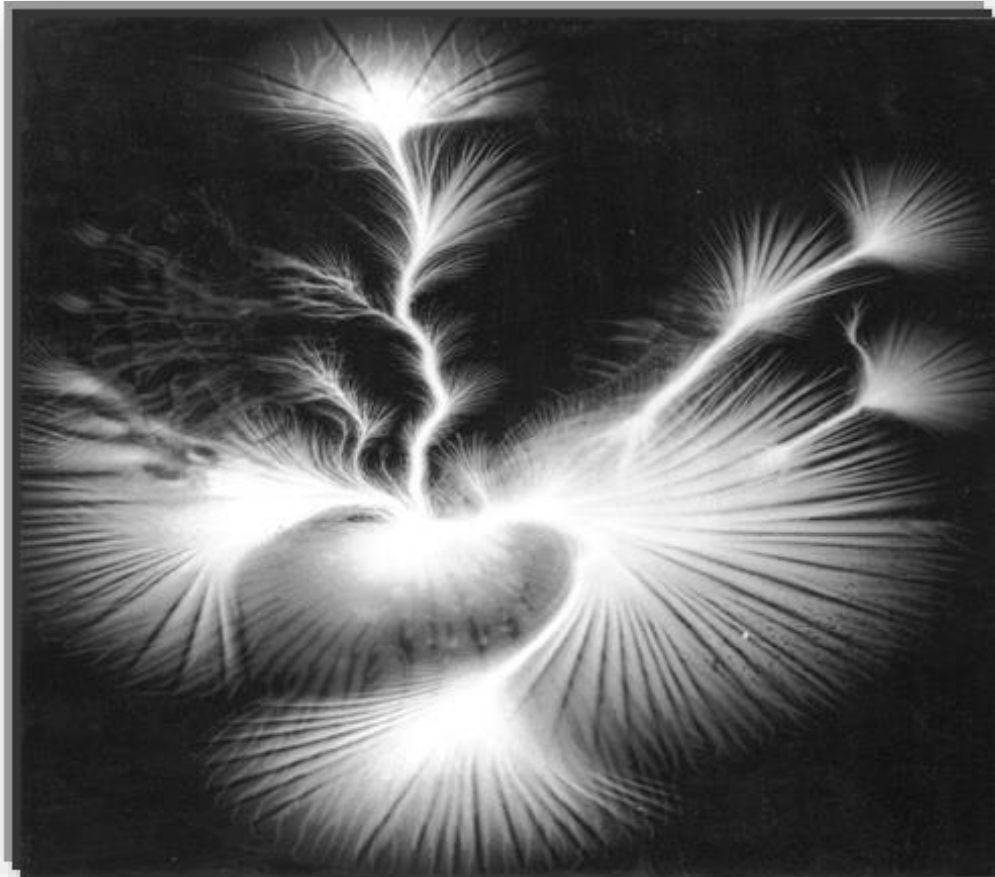
Man, nowadays, may be as imperfect as he was 2-3000 years ago, but he considers himself much more powerful owing to science. That is why it is important to make efforts in order to understand the enigmas revealed by these researches, which urge us to thoroughly ponder logically and philosophically.

And maybe nothing will complete the image of knowledge seeking, out of which this volume is just a drop, except *Nichita Stănescu's* words:

“Everything is writing. Everything is written talking or thinking. Everything is alphabet. Whoever knows to read, reads. Whoever doesn't, does not. You can read in anything. In any time, in the passage of history, in the dust of the Moon the life of the Moon dust. In the stars the course of the Universe. Everything is written. Made up of strange letters, we are written words. Made up of other kinds of letters, leaves are green words. Pieces from the Moon are brought to the Earth in order to be able to read in electronic microscopes the letters that make them up, hoping to decode a word. The truth is written. It exists and is written. It only expects its readers.”

Prof. Mihail D. NICU

February 1993, Bucharest



LIFE? ... a reproducible flash of lightning and very likely a peal of thunder lasting as long as ... DESTINY, but definitely a spark perpetuating the enigma of UNIVERSAL EXISTENCE.

MAN? ... a still for ... the sparkling idea of "being alive", of the UNIVERSE.

Forward

The present work is a signal existing at the borders between NATURE and CULTURE, SCIENCE and RELIGION, MAN and the COSMOS. Owing to the object of study, we are situated in the field of Anthropology, where these borders turn into connecting and conscious integrating bridges in existence by means of INTERFACES that COEXIST.

The primary impulse of this work was the conviction that auras mediate communication among various planes of existence.

Part I consists in presentations aiming at circumscribing border areas (interfaces) from different fields of reality and knowledge, developing the concepts of INTEGRATION and COEXISTENCE.

Part II of the volume intends to directly communicate the results of our laboratory researches to anyone who loves the new and the beautiful. We present novel illustrations ordered in nature-experiment pairs: there are comparisons between aspects from nature photographed by means of common techniques with experiment-images obtained by means of electrical sparks generated in the laboratory. Minute research of the luminescent discharges, by successively magnifying the details, highlighted a great variety of shapes that resemble, sometimes are identical with conformations in the living world, directly accessible to senses. The text offers explanations that make our message expressed in images easier to understand, outlining theoretically and practically the concept of INTERFACE.

The initiative to elaborate the present volume was born in 1985, 10 years after taking over the electronographic method (EnG) (owing to the courtesy of its inventor, Fl. I. Dumitrescu, PhD), and after the association with the anthropological investigations. I found it natural, at the time, to invite a number of specialists to elaborate on certain convergent analyses, in interdisciplinary perspective, in order to ensure a wide range of fields which I expected to offer many innovative aspects.

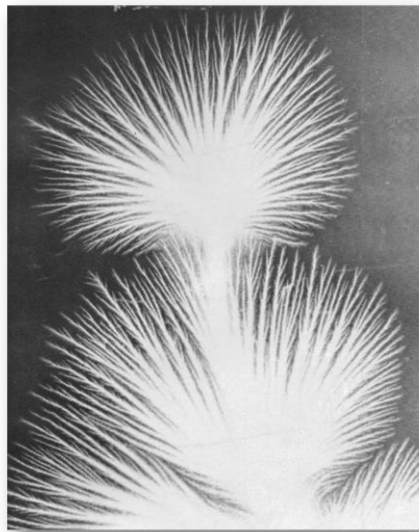
I am grateful to all the collaborators for their dedicated implication in the proposed themes with syntheses for their own activities. Judging over years, when the objective was met, their contributions seem to me inseparable from my own searches. I would also like to thank the team of the laboratory, my family and everyone who, with relentless dedication, helped me turn my initiative into reality.

Cornelia GUJA, February 1993, Bucharest



PART I

PARADIGMS OF INTEGRATED THINKING INTERFACE, COEXISTENCE, INTEGRATION



“As no one can prove to us that god, or the gods do not interfere in our life, it is possible, it is probable that God shows himself incessantly. How shall we see him, how shall we recognize him? God is not obliged to take the form we assign to him.”

Mircea Eliade

Interface

We call interface any natural or artificial manifestation that mediates two or several components of material and/or spiritual reality. The concept of INTERFACE is complementary to that of SYSTEM, quite widely spread nowadays. [213] To the tendency to individualization, autonomy and independence a tendency to union and communication among all existing individualities is associated. The impossibility of total (absolute) independence of a body or phenomenon in nature proves to be the expression of a principle as general as the impossibility of a “perpetuum mobile” of second kind; or it can be its consequence: the impossibility to absolutely isolate and delimit a body or phenomenon.

Interfaces “indicate” interactions and interdependences of a certain kind, variable and ephemeral, therefore very difficult to delimit. We can distinguish as many interfaces as the number of ways of communication established among all bodies and phenomena existing in the Universe. In this sense we can mention only the interfaces of different levels: 0, 1...n, depending on their degree of complexity, similar to the way the auras of bodies are characterized. [1]

The following articles (Part I) were written at the work coordinator’s request and are the result of long interindividual or collective debates held in the Commission of Interdisciplinary Studies of the Romanian Academy, whose activity took place in the period 1974-1089.

Acquiring of more and more experimental and theoretical knowledge, which required improved terminology and interdisciplinary defining of extensive concepts, led to development of new scientific viewpoints. Scientists with prodigious experience in various fields approached a series of important phenomena, specific of their activity, which, owing to their complexity, were not understood and explained well enough. The articles are actually essays in a current specialized language.

The readers will be able to understand the limits of systemic and informational thinking suggested during the debates and the openness resulting from introducing the concepts of *interface* and *coexistence* for a deeper understanding of the processes of *integration* in the living and nonliving world.

Discerning the *interface areas* and highlighting their peculiarities in comparison with the systems generating them outlines the laws of transitional processes, which perform communication of the systems and their integration in a unitary circuit of nature.

For exemplification we will mention a few categories of phenomena more adequately approached when using concepts like *interface*, *coexistence*, *integration*, further explained in the chapters of Part I of the present volume. There is an essay which starts with references to the notion of androgyny, considered in the history and philosophy of culture as a logical-philosophical fiction or as a symbol. Yet, present science demonstrates the presence of a real substratum of this human heterosexual ambivalence, therefore the existence of an *androgynous interface*.

The study of the interacting phenomena between the living systems (especially man's) and the terrestrial and cosmic living environment by examining the complexity of the physical structures of the earth, of its surface and of the subsystems in the atmosphere and the Universe, lead to finding transitional aspects of interrelation and communication (**Chapter 1** Simion Moraru, **Chapter 2** Irina Predeanu).

The physical surface phenomena studied at macro and micro level (Quantum) are also investigated by the materials science which calls them interface phenomena, in a more restricted sense than our volume. There is extensive literature referring to the knowledge acquired in this direction. Alongside with this information, in **Chapter 3** (Dolphi Drimer) the author suggests several original directions to approach and extend the physical methods in the study of interfaces.

Explaining the specificity and non-specificity of the biological phenomena is much easier by assimilating the concepts of spatio-temporal coexistence, as seen in **Chapter 4**. Specificity resulting from non-specificity generates interfaces as a consequence of the mediating phenomena between the two categories of properties that coexist and contribute to integrating the living systems in the nonliving nature (Vladimir Eșanu).

Using the method of biogeodetection in an original modality, one may find certain interacting phenomena between man and the environment, which opens the experimental way of studying the genesis of human biorhythms (**Chapter 5**. Dan Svonoros and Adrian Nicolescu).

The androgynous constitutional forms become significant for understanding the phenomenon MAN if we regard the human individual as an interface

determined by the sexual ambivalence of somatic, endocrine and neuropsychic structures. These aspects are discussed by the author of **Chapter 6** (Ștefan Milcu).

Presenting the human psychic as an integrated system whose hypercomplexity manifests itself in a double framework: evolving (in time it passes successively through moments of qualitative leap from a lower level to higher levels) and synchronized (by relating and interconditioning of various functions and processes) in an individual's life, the psychic appears to be a permanently reshuffling process characteristic of interface areas – **Chapter 7** (Mihai Golu).

The concept of coexistence, which might be another paradigm of the science of the future, and which would adequately denominate interface specificity, is studied by the author of **Chapter 8** (Victor Săhleanu). He makes an overview of the way coexistences are understood.

In **Chapter 9** (Eugenia Popescu-Grosu) the author presented many facets of consonant phenomena, part of them intuited and described by Ștefan Odobleja (1902-1978). They suggest the premises of the interface and coexistence concepts.

Chapter 10 is an overview of the integrating tendencies of Philosophy in the historical evolution of human knowledge. (Virgil Stancovici).

In **Chapter 11** a conspicuous hypothesis of the aura is examined in the semantic field: the symbolic connotation. The bodies and concepts are enveloped in *cobweb of meanings* (the expression belongs to Max Weber) which assume great part of interface characteristics. Starting from accepting the symbol as mediating factor of the structures of human psychism, on the one hand, and of material reality, on the other, the catalytic role of the “matters” in outlining the imaginary is highlighted. Continuing Bachelard's researches on material imagination, the author suggests identification criteria of matters with maximum influence over human psychism and definition of their content (Matei Stîrcea Crăciun).

The study of certain interfaces may be made in the laboratory. Our work is a plea in this sense.

Cornelia Guja

February 1993, Bucharest

Briefly, what is the "INTEGRONICS" we conceived?

Having in view the multitude and complexity of the subjects discussed in this volume, I felt the necessity of a brief synthesis as a reference and reflection point for the reader. Integronics, the main subject of the volume, offers a way of studying *the types of interface relations* among the bodies, systems, phenomena and processes in Nature and in the Universe. The characteristics of some of the modalities to relate and communicate are debated with the help of the key concepts in the chapters of the present volume of "Introduction to Integronics, the Science of Systems Coexistence by Interfaces" and subtitled "The Body Auras – Interfaces with the Universe".

Integronics came into being in parallel with *experimenting in the laboratory* the electromagnetic phenomena occurring on the surface of various bodies: nonliving, living, especially of the human body and the environment, using an electronographic (EnG) method. We conceived the exchange of these electric charges caught in EnG images as *interface relations*. The luminescence highlighted around the tested bodies led us to associating it with the ancient concept of "aura". Finally, the *shapes of electric discharges* around the bodies found experimentally and recorded as EnG images have demonstrated that they have a ubiquitous character and may be analyzed as *relations of communications by means of interfaces*. We proposed encoding the interface relations by archetypal shapes suggested by the shapes of the electric discharges on the radiological films.

The present volume, which is an interdisciplinary contribution of 17 collaborators, Romanian scientists, came into existence as a result of our wish to corroborate our predecessors' thinking with systemic and informational thinking with a view to understanding and interpreting the experimental results mentioned above.

Chronologically, *Integronics* was imagined by me, a researcher specialized in physics, biology and anthropology, ever since 1976, as an interdisciplinary method to be used for understanding the systems formed by human groups integrated in Nature from the bio-socio-cultural point of view. This denomination first appeared in printed form in 1977, in Cluj-Napoca, Romania, where a symposium on informatics was organized. It was then when I intuited the necessity

and possibility to understand more thoroughly the “border” processes of distinct integrated systems.

The word “Integronics” was used in this volume in order to extend its acceptance, to better understand which are the modalities that enable the simultaneous presence and existence of an infinity of bodies, systems and processes in nature, using integrative thinking.

Integronics deals with coexistence as a fundamental, universal phenomenon, which conditions the existence of systems on systems by making them *mutually compatible*. The simplest object of study of integronics consists in the integrating modalities of at least two bodies, systems, processes, components of the environment, which form the context of the interface. The sphere of the notion of integration being interdisciplinary in integronics, it includes integration acceptance of mathematics, physics, chemistry, biology, psychology, technique, cybernetics, philosophy, etc. The notion of coexistence is the generic name for all the concrete possibilities to achieve integration, from the simple *adjoining, aggregation, addition, mathematical integration* (Guja, 1977) *and structuring of hyperintegrated systems* (Restian, 1986). The genesis of the new point of view is multi (pluri) factorial, which was the basis for gathering the group of collaborators in the present volume. The red thread of the debates in the book consists in *highlighting multiple forms of manifestation of coexistence*, in various fields of reality and, at the same time, pointing to the *necessity to explain the types of relations that ensure coexistence*.

In order to designate the real existence of these relations the term *interface* was used also having an interdisciplinary acceptance, starting from its technical significance. It follows that *interface becomes, alongside the system, an indispensable notion for the integronic point of view*. It contributes to a better understanding of how “internal” and “external” media of a system are organized, to delimit the systems by analyzing the border processes, pointing to dynamic aspects of their transformation and evolution. For instance, it is possible to study more thoroughly the significance of certain interactions like those occurring at the level of atom and planet orbits, at the level of membranes and teguments, at the level of the cerebral cortex, at the level of technological processes understood as interfaces among man, society and the ENVIRONMENT. The notion of interface may be more adequate than that of system when systems undergo accelerated transformations (related to the time perceived at human level), under the influence of the existing tensions of their internal and/or external structures. In such

situations the systems are unstable and the process is mainly characterized by its relation structure, which has in this case a status of evolutive interface. The integronic point of view may be seen therefore as a step towards understanding the *profoundness of the material world* (Drăgănescu, 1980).

As shown above, *the object of study of integronics* consists in the *coexistence processes of the interacting elements – integrated systems*. Their essential characteristic is given by their compositional, functional and behavioral stability ensured by the action of the cybernetic principle of informational communication and regulation by means of feedback.

From the integronic point of view one may differentiate at least three big classes of stable Natural systems, that are more thoroughly studied, integrated by interfaces. They correspond to levels of complexity that are significant for the natural processes of integration known until nowadays: the circuits of substances and energy in nature.

For example, on a first level, we may consider (naturally) integrated systems the stable chemical elements coexisting in the Universe, structured in the variety of the existing bodies.

The chemical elements are integrated on a second level in the molecular structure of bodies. The cohesive forces of various intensities ensure various degrees of stability and consistency, having different states of aggregation.

They are integrated on a third level in the living cell system where the chemical elements coexist in the area of energy equilibrium which oscillates around an optimum value. In this way the living system is given relative stability and maximum sensitivity, making possible the adaptation process of the living to the environment.

On another level we may place integration of the physiological systems in the living organisms: plants, animals and man. For instance, in the human body coexist, making up a unique individuality: the integumentary, skeletal, muscular, respiratory, vascular, nervous, endocrine, immune, psychic systems. Their synergic functioning ensuring unity is made by interfaces in which communication is achieved by messenger molecules bearing information encoded in the human DNA.

We considered the bodies “aura” a fundamental modality of integration at all levels, universal, having in view the ubiquity of interactions through the natural force fields of all the bodies in the Universe. We explored these interfaces in the laboratory at distances of centimeters using the EnG technique. We sensed in the aura in the proximity of thousands of studied bodies *repetitive forms of electric*

discharges and we tried to interpret them using a code of archetypal shapes which represent and “draw” the mark of the communication modality with the environment. Using this EnG method we have identified so far four categories of archetypal shapes which are to be found in the entire Nature: *ramified, concentric, floral and spiral shape*. They are presented in comparative images both natural and EnG, in the present volume.

The theoretical and practical edifice of integronics was generated by the surprising similitude of the key concepts proposed for the characteristics of interface relations which ensure the coexistence, discussed by the specialists in the present volume from different fields of contemporary science. Certain paradigms of today’s science are developed, reformulated and even surpassed. The new paradigms refer to the more thorough understanding of the *impressive diversity of the material and spiritual world, to informational coexistence of the systems within the context of integronic interdependence*, which expresses the unity of our Real and Ideal world.

The analysis of the significance of the original solutions proposed in the papers of the present volume and of our biophysical, physiological and anthropological studies pointed out the existence of certain types of relations of coexistence and informational communication having a very general character, which we considered *natural principles of the integration processes via interface*. They can be stated as follows:

- *the Principle of SYSTEMS INTEGRATION BY MEANS OF INTERFACES*.

An example is integration by means of types of universal, informed force fields as fundamental substratum of auras, specific of the systemic level of integration: the gravific field, the electromagnetic fields, molecular cohesion, intra-atomic force fields and the fields at the quantum level.

- *the Principle of COMMUNICATION BY MEANS OF ARCHETYPAL SHAPES*. For instance, integration by means of the ramified shape is found as communication form in the atmospheric and terrestrial electromagnetic phenomena, in the circulatory systems of sap in plants, in the animals’ circulatory, respiratory and nervous systems, in the interface phenomena at tegument level (body auras) which we studied.

- *the Principle of COEXISTENCE BY SIMILAR ARCHETYPAL SHAPES*. For instance, the shape of concentric archetypal coexistence is found as concentric form of organization of the atom, of the living cell, living organisms, of the planets and solar system. This archetype is probably selected by the natural evolving

process which ensures an integrated structure with optimum energetic balance, with relative stability and maximum sensitivity.

In conclusion, we are able to know, understand and interact physically and spiritually with the Surrounding World owing to our universal communion by the archetypal shapes which we have in our substance, in our informational structure and organization. *We are integrated in a WHOLE, we coexist and communicate using an archetypal code.* In the present volume we attempted to debate, theoretically and experimentally, bringing a few more arguments than already known so far, upon this mystery of universal communion, still unrevealed entirely.

The following schematic representation describes our idea regarding communication and coexistence of the systems by way of interfaces.

Motivations

The reason why I considered resuming this work, after a period of 25 years since the first publication in 1993, is the fact that many of the hypotheses and research results we put forward at the time have been confirmed valued and found their right place in the multitude of scientific knowledge acquired during the years.

In the 80's and even in the 90's the similarity of the electric discharge shapes we studied in the laboratory with *a* series of shapes existing in nature, as well as the idea that integration of bodies in Nature takes place according to a code of archetypal shapes was accepted as an interesting but bizarre hypothesis or as an accidental resemblance and was even a cause for arousing indignation! The researchers who at the time sided with my intention to seek the explanation of this connection, brought in the articles they wrote at my request scientific arguments from their fields of activity, as they intuited the existence of certain natural integration processes that are part of Nature's ingenuity in its effort to secure its evolving Unity. I integrated them all in this book. In that period the scientific world took over with great interest and extended application of the general systems theory (founder L. W. Bertalanffy), of the theory of communication in the living systems and machines – cybernetics (whose father was Norbert Wiener) and the information theory (whose initiator was C. E. Shannon). The authors of the articles in the present volume based their researches on all the above-mentioned theories. They also realized that there were certain processes that raised new problems outside the

sphere of the existing theories, such as assembling and communication among the various categories of systems that could be better studied using the theory of integration and communication by means of interfaces, which we proposed in this volume.

It seems that introducing new concepts such as *interface*, *integronics* or *coexistence* did not find fertile ground among the theories in vogue of that period. This may have also been due to the fact that the term interface had become important and well defined in computer science and the science of surfaces in contact and seemed limited to those fields. Nevertheless, our volume was honored by a prize awarded by the Romanian Academy after two years since its issue and the readers appreciated it as an eccentric novelty.

I would like the present revised edition to have a larger echo. The comments I made to the authors' articles are meant to reduce the difficulties the readers might have owing to the multidisciplinary and specialized character of the themes, which we noticed in the previous editions of the text. I tried to supply information regarding the period in which the articles were written and their authors in order to highlight the originality and novelty of the concepts as well as the special historical context of the researches carried out.

The Bibliography attached to this motivation is an indication for the reader interested in the volume coordinator's personal works, published since the first edition of the volume, in the period 1993-2020, using the interface and integronic thinking theories presented in the volume, consolidated during later researches. They bring arguments and demonstrate, among other things, that archetypal communication among the coexisting systems everywhere in Nature, possible by means of interfaces, ensures a memory which has as informational substratum the assembly of the interacting fields existing on the Earth and in the Universe, which we associated with the ancient Oriental concept of AURA. The archetypal interface of the auras as universal informational form of communication and the thinking mind will make it possible for us to be present wherever our curiosity and thirst for knowledge take us.

Volume Coordinator: **Cornelia Guja**

March, 2022