

TELE for ARA: Evolution of Consciousness Society

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Abstract. The research direction "The Creation of the Society of Consciousness", carried out by the staff of the Academy of Economic Studies of Moldova (ASEM), since 2008, is a continuity of the research carried out in this field by the illustrious scientist, Academician Mihai Drăgănescu, former president of the Romanian Academy, Coordinator of research in the field of information society and author of many publications in the field of Informatics, including the famous publication "SOCIETY OF CONSCIOUSNESS". The research, carried out in the field of creation of the society of consciousness by the ASEM collaborators are supported by the American Romanian-Academy of Arts and Sciences (ARA), by Romanians everywhere and their colleagues from different fields of science and technology around the world. The 15 years of research and 11 years you meet researchers within the international TELECONFERENCES of young researchers its crowned with thousands of important results, hundreds of communications, and publications in the field of the Society of Consciousness, dozens of monographs and magazines, Enshrined to these famous activities of Romanians everywhere, representatives of ARA. The present work succinctly represents the totality of the results obtained in the field "The Creation of the Society of Consciousness" in the last 15 years of scientific activity of Romanians everywhere, represented and supporters of ARA.

Keywords: consciousness, knowledge, informatics, robotics, Humano-Robotics society, artificial intelligence, natural intelligence, robotics, creativity, emotions, temperaments, sensuality, ROBO-intelligence, JEL: B55, C53, C88, D2

Introduction.

We present the history of the evolution of the university project "Creating the Society of Consciousness" from its initiation in 2008 at the Summer School "Baile Tusnad" until now. The project was joined by scientists and young specialists from many universities and scientific centers in Bacau, Bochum, Boston, Bucharest, Chicago, Chisinau, Iasi, Kraków, Niderlande, Timișoara, Warsawia etc.

The components of science, consciousness, subconsciousness and unconsciousness are studied. These components are human-specific and will be incorporated into robots in the Society of Consciousness – The Human – Robotics Society.

IQ and EQ, creative and emotional intelligence, sits the Core of the Society of Consciousness. At the Symposiums of 2009 – 2011 and the international

TELECONFERENCES of young specialists from 2012 to the present, they have been researched, highlighted, structured, algorithmically implemented, and discussed on a wide range of issues related to the adaptable implementation of human IQ and EQ in the robots of the Society of Consciousness. Creativity, emotionality, temperament and sensuality of human IQ and EQ are studied and algorithmically adapted in the ROBO-intelligences of the Society of Consciousness.

Studying and measuring the energy sources of the components of science, consciousness, subconsciousness and unconsciousness is the current problem of creating the ROBO-intelligences of the Human-Robotic Society. Energy measurements are the source of the Energy Deposits of the Society of Consciousness. This repository is the basis for the

adaptable creation of robots – full members of the Human-Robotic Society.

December 2008.

Academy of Economic Studies of Moldova (AESM) Senate adopts the research project” Creation Consciousness Society”, Research director was named Dumitru Todoroi, univ. prof., dr. hab., ARA corr. member.

In the years 2009-2011 research results in the field were discussed especially by the researchers – participants at the international annual symposia at the AESM.

Beginning with 2012-year results were discussed at the international TELECON-FERENCES of young researchers from Moldova, Romania, Germany, Italy, Poland, and the USA.

The TELECONFERENCES (TELE) were organized by the Academy of Economic Studies of Moldova, The American-Romanian Academy of Arts and Sciences, and “Vasile Alecsandri” University at Bacau, Romania. The TELE are supported by the scientists from around the World, University California Davis, California, USA, Illinois State University at Chicago, USA, Boston Tehnological Institute at Boston, USA, Boston Theological Institute at Boston, USA, Bochum Economic Institute, Bochum, Germany, AFEDEMY, Nitherlands, The Academy of Economis Studies of Bucharest, Romania, “Al. I. Cuza” University at Iasi, Romania, Free International University of Moldova, Chişinău, Timișoara Politechnical University, Romania, Moldova State University, Chişinău and others.

Adaptable tools represent the algorithmic basis to be implemented in first three stage of robotic creation: formulation the problem, its formalization, and its algorithmic definition. The Kernel of adaptable tools in presented be its **Adapter**, which defines pragmatics (utility), syntax (structure), semantics (content, mining), context (user environment) and examples of ROBO-intelligence elements. Very important subject constitutes the utilization of Adapters in definition higher level elements of ROBO-intelligences through its lower-level elements. Adapter is the tool, engine of

information technology to create adaptive ROBO - intelligences. The Adaptable Evolution Method (AEM) is investigated, developed, and implemented in creation process of Consciousness ROBO-intelligences.

The TELE – 2012 [1].

Conference was dedicated especially to the discussion of research results of creativity of ROBO-intelligences. Volume work was published by AESM Publishing House: ISBN 978-9975-75-611-2. It was analyzed and developed the AEM to be used for the adaptable algorithmic processing of robotic creativity’s features: Inspiration, Imagery, Imagination, Intuition, Insight, Improvisation, Incubation and its evolutions: Acquire Knowledge, Develop Curiosity, Become Interested, Passion, Dedication, and Professionalism. Were obtained higher level elements of Creative ROBO-intelligences which ware defined with the help of special developed the creative AEM.

3. TELE -2013.

Conference discussed research results obtained in the branch of emotional elements of ROBO-intelligences. The results were published in the Volume 1 of the founded by the University "Vasile Alecsandri" of Bacău Journal "*Computers Consciousness Society*": **ISSN 2359-7321, ISSN-L 2359-7321.**

Were analyzed and developed the AEM to be used for the adaptable algorithmic processing of the basic emotion elements: Happiness, Fear, Amazement, Disgust, Sadness, and Anger in combination with its evolutions: Self-awareness, Managing emotions, Motivation, Empathy, Handling relationships. Were obtained higher level elements of Emotion ROBO-intelligences which ware defined with the help of special developed the emotion AEM.

Temperament elements of ROBO - intelligences were studied, analyzed, presented, and discussed in sections of **the TELE – 2014 [2]**. Research results were published by AESM Publishing House: ISBN 978-9975-75-612-6

At the TELE – 2015 [3] (*Society Consciousness*

Computers, Volume 2, ISSN 2359-7321, ISSN-L 2359-7321) and TELE – 2016 [4] (*Society Consciousness Computers, Volume 3*, ISSN 2359-7321, ISSN-L 2359-7321) were represent research results based on developed special types of AEM which were used in the process of creation the sensual elements of ROBO –intelligences - positive and negative sentiments. Were implemented special types of AEM in the process of algorithmically definition of Sensual positive ROBO-intelligences characteristics such as: Meekness, Modesty, Satisfaction, Pleasure, Simplicity, Lavishness, Tolerance, Frigidity, Love, Health, Diligence, Joy, Courage, Fidelity, Issue, Life, and Despair.

4. TELE-2014 [4].

The international FORUM TELE-2014 was dedicated to the analysis of the research results in the field of the creation of the Consciousness Society with the highlighting of the possibilities of creating ROBO – intelligences with temperament, ROBO – intelligences with character. ROBO research – creative intelligences (IQ) and emotional intelligences (EQ) are evaluated in the direction of obtaining ROBO – intelligences with Choleric, Bloody, Phlegmatic and Melancholic character. Each of these 4 characters has its own special peculiarities, which also makes people different or find tangencies with each other. The study of human temperaments is directed to the research of the energetic components of stability-instability and introversion. Temperamental energy is defined by energy currents, which are emitted by the components of introversion-exstravertation with stability-instability.

One of the measurements, as an example, is the measurement of energy currents specific to melancholics (introvertivity and instability): of sorrow, anxiety, rigidity, sobricity, pessimisticity, reservibility, insocibility and limitation, which is a process of creating a repository of energy data characteristic of melancholic. The other measurements, specific to the qualities of phlegmatics, choleric and bloodsuckers, are analogous to that of

melancholics. The database composed of the amounts of phlegmatic, choleric, blood and melancholic temperamental energy currents determines the process of creating the respective components in robotic systems, in melancholic robots, for example, or in choleric robots and a.m.d., creating ROBO-intelligences with temperament, ROBO – intelligences with character.

Theme TELE-2014: "Information systems in the Society of Consciousness"; "ROBO-adaptable emotional intelligences"; "Sustainability and ROBO-intelligences"; ROBO-intelligences and the "Quanta Revolution".

It is necessary to emphasize the extension of the geography of international teleconferencing with the generic "Creation of the Society of Consciousness". With valuable works at TELE-2014, together with the researchers from the first FORs in the field of creating the Society of Consciousness, both the young researchers from the "Vasile Alesandri" University of Bacau together with those from the "Gh. DIMA" Academy of Mythics in Cluj Napoca, as well as the youth from abroad, joined together with the researchers from the first FORs in the field of creating the Society of Consciousness. TELE-2014 spent its activities with the first direct involvement of the American Romanian Academy of Arts and Sciences (ARA), of the new President of ARA, of Mrs. Ruxandra VIDU, Prof., Dr., who participated in all the stages of evaluation of this international FORUM.

TELE-2015 [5].

The purpose of the meeting of young researchers within the international FOR "Creating the Society of Consciousness" (TELE-2015) was to discuss ROBO-intelligences with positive and negative feelings. Feelings are labeled in Pandora's Box as negative feelings and their opposite is positive feelings.

The study of negative (Pandora's Box) and human positive feelings is directed in this case towards the research of the energetics of the sentimental components. The energy of sentimentality is defined by the energy currents, which are emanated by the

components of negative feelings (Pandora's Box): Cruelty, Arrogance, Suffering, Pain, Vanity, Greed, Jealousy, Bodily Lust, Hatred, Diseases, Laziness, Sadness, Fear, Deception, Subjugation, Suffering, Death, Hopelessness and positive feelings (opposite to those in Pandora's Box): Gentleness, Modesty, Satisfaction, Pleasure, Simplicity, Generosity, Tolerance, Fidelity, Love, Health, Diligence, Joy, Courage, Fidelity, Liberation, Stillness, Life, Hope in Pandora's Box. Measuring sentimental energy currents supplies the database composed of information about the amounts of sentimental energy currents that support the process of creating sentimental components in robotic systems. The energy of sentimentality participates in the creation of the robots with feelings, the Robot with the feeling of Suffering, for example, or the Robot with the feeling of Pleasure and so on. This process aims to create ROBO-intelligences with feelings.

Tele-2015 theme: "ROBO-intelligences in the Society of Consciousness"; "Information systems in the Societies of Knowledge and Consciousness"; "Sustainability of social systems in the Society of the Future".

TELE-2016 [6].

The Society of Consciousness is characterized by the equality of artificial intelligence and structured natural intelligence (structured AI=IN). It has been shown (Carnegie Mellon University) that of the 7 million human functions, about 5 and a half million currently can be performed by robots. These human functions are mostly of the physical type. Spiritual, intellectual, emotional, temperamental, sensual and other human functions are in the investigation phase.

The following processes of robotic investigations and current measurements are intended for complex measurements of ROBO-creative intelligences with emotions, for example, ROBO-intelligences with character and feelings, ROBO-emotional intelligences with character.

The industry of creating ROBO-intellectual, sensual, emotional, spiritual, creative and temperamental intelligences is in full activity, its purpose being to fill

the robotic niche, which currently requires the robotic functionalization of over one and a half million human beings (Carnegie Mellon University), we "covered" by robots.

Currently, the collectives, which are concerned with the creation of robotic systems, are researching the schemes and tools for investigating and measuring energy properties, which characterize intelligence, emotion and the human spirit. The physical parts of the creative (IQ), emotional (EQ), moral and spiritual components of the human body are investigated, including the human heart and brain, which emit energy signals with different properties, signal types, amplitudes and frequencies. Such investigations are carried out by mixed teams of researchers from biology, psychology, physics, nanotechnology, bioinformatics and other sciences. The results of these investigations are the digital basis for algorithms for reproducing the corresponding robotic characteristics.

TELE-2016 theme: "Robotic sustainability"; "Information sustainability"; "Social sustainability".

The goal of TELE-2016 was to investigate the elements of the first level of spiritual, intellectual, emotional, temperamental, sensual (positive and negative) functions and their sustainability in the creation of ROBO-intelligences. The evolution of temperamental robotic characteristics from an intellectual, emotional and sensual point of view of the process of creating ROBO-intelligences was discussed.

7. TELE-2017 [7].

International TELECONFERENCE of young researchers" The Creation of the Society of Consciousness", April 21-22, 2017, (TELE-2017), 6th Edition [6], Dedicated to the scientist Radu MIHALCEA.

Many scientists from different fields of science and technology, from the fields of pedagogy, sociology and philosophy, from the fields of quantum physics, nanotechnologies, psychiatry and psychology, scientists from about 90 groups of researchers in the world, with different views of the Consciousness Society, with different supporting results of the idea of

creating the Consciousness Society, postulated that the Consciousness Society will be created between 2019 and 2035! It's a pretty long period of time, and it also defines the mentality of humanity - when, how, who, who, who, and why is this Society of Consciousness necessary...

The most optimistic futurologists claim that already in 2019 we will live in the Society of Consciousness but the most pessimistic believe that only in the year 2035 we will live in it!

We will live in the Society of Consciousness when Artificial Intelligence equals structured Natural Intelligence. So we're going to live in a homo-robotic society, with its new laws for humanity and those laws for robots: in this society both humans and robots will be holders of social passports. Tele-2017 theme: "Robots of the Society of Consciousness"; "Information systems in the Society of Consciousness"; "Information, Knowledge and Robotics Consciousness"; "Robots of Small and Medium Enterprises". The results were published in the Journal „*Society Consciousness Computers*”, *Volume 4*, ISSN 2359-7321, ISSN-L 2359-7321; *Consciousness Society Creation, 6th Edition, April 21-22, 2017*, ARA Publisher, **University of California Davis, USA**, ISBN: 978-1-935924-21-0, <http://www.AmericanRomanianAcademy.org>).

Was implemented special type of Adaptable Evaluation Method (AEM) which was used in the process of algorithmically definition of Sensual negative ROBO-intelligences characteristics. Was developed the AEM to be used for the adaptable algorithmic processing of main negative sensual robotic characteristics: Pride, Wrath, Sorrow, Deceit, Misery, Glory, Cowardice, Hate, Arrogance, Gluttony, Envy, Vanity, Lust, Fear, and Greed. Obtained higher level elements of negative Sensual ROBO-intelligences were adaptable algorithmic defined with the help of special developed AEM.

8. TELE-2018 [8].

Adaptable technology is the algorithmic basis that is implemented in the first three stages of the creation of

robotic systems: problem formulation, its formalization and algorithmic definition. The core of Adaptable Technology is presented by its Adapter, which defines the pragmatics (usefulness), syntax (structure), semantics (content, meaning), context (user environment) and examples of elements of ROBO-intelligences. The main topic is the use of adapters in defining the top-level elements of ROBO-intelligences through its lower level elements and, possibly, recursively, by itself. The adapter is the tool, the engine of Adaptable Technology to create ROBO-adaptive intelligences.

The developed Adaptable technology, composed of Adapters and Information Systems, for creative, emotional and sensual ROBO intelligence forms the algorithmic basis of the energy data warehouses for creating ROBO-intelligences for the robotics industry, of the new generation of artificial intelligences. A special type of Adaptable Evolution Method (AEM) was used in the process of algorithmically defining the characteristics of ROBO-sensual negative intelligences. AEM was developed to be used for adaptable algorithmic processing of the main sensual negative robotic characteristics: Pride, Wrath, Sorrow, Deception, Misery, Glory, Cowardice, Hatred, Arrogance, Greed, Envy, Vanity, Lust, Fear, and Greed. The obtained top-level elements of negative sensual ROBO intelligences were algorithmically adaptable defined with the help of the specially developed AEM.

At the TELE-2018 were discussed research results concerned to the investigations in the next research directions: (1) Artificial Intelligence, E-Society & Business Solutions, (2) Information, Knowledge, and Robotic Consciousness, (3) Artificial Intelligence in Consciousness Society, (4) Artificial Intelligence in SMEs, and (5) COST Activities for SMEs & Consciousness Society.

There are investigated the measure of intellectual and spiritual human features, the physical places of the brain from where such features are directed and managed, the type of signals and its intensity these places produce. Such investigations are in the great

interest for the mixt teams of researchers from the biology, psychology, physics, nano-technology, bio-informatics and other sciences. Results of such investigations represent the **digital basis** for the adaptable algorithms of reproducing the intelligent and spiritual robotic features.

Intelligent robots have to have the creativity's evolutional features, which depends from the intensity of corresponding intelligent signals. Spiritual robots have to possess emotion and sensual features. Its algorithmic adaptation depends of digital emotion, temperament, and sensual correspond **digital basis**.

9. TELE-2019 [9].

The intergenerational cooperation in a collective is based on the physical, intellectual and spiritual activities of the staff composed of people of all ages. The subject of intergenerational cooperation in general and the specificity of the interaction of the lucrative component of the Society with the elderly constitute the permanent and prospective concern in the European Community. In the European Union, over the last two decades, there have been communities of Scientific and Technological Organizations (COST), which have as common goal: solving the problems of intergenerational cooperation. One of these communities is COST CA 16226, in which activates 38 organizations from the EU and co-partners from other Countries of the World, including the Republic of Moldova, which is represented in this COST by ASEM.

The major goal of COST CA 16226 for the years 2018-2021 of activity is the research and implementation of measures to improve the lives of elderly people, the creation of Associations and Communities for the sustainable well-being of people aged 65+ and of the third age, and the radical change of the correlation of physical (material), intellectual and spiritual intergenerational activity in the European Society.

At the **TELE-2019** were discussed research results concerned to the investigations in the next research directions: (1) "Age-friendly communities in Human-Robotic Society", (2) "Science and Art in Consciousness Society", (3) "SMEs in Consciousness

Society", and (4) "ARA and TELE in Knowledge and Conscience Societies".

Are investigated the life conditions of the elders in future society – the society where the number of workers in comparison with the number of older people will be in continuous lineage and the problem of older people will be too important for society. Researchers proposed a set of measures to develop the SMEs for the elders, SMEs for women and girls, and the SMEs for the young people which will support the Age Friendly communities in the Human-Robotics Society.

The teams of researchers from the American-Romanian Academy of Arts and Sciences, the Academy of Economic Studies of Moldova, the AFEDEMY from Netherlands, the "Vasile Alecsandri" University at Bacau in collaboration with international teams of researchers proposed the decisions for problems of life of Elderly in the Future Society - the Society of Consciousness.

10. TELE-2020 [10].

When developing complex policies of society it is necessary to take into account the social, political, economic, normative, cultural, informational and health aspects of the ageing society. Policies that provide for investments in social programs, human resources and in the economy in ASEM will help prevent unjustified dependence of people in old age. Early and effective investments contribute to the transformation of the aging society of ASEM from a factor of consumption of resources into a creative factor of development of the human, economic, social and cultural environment.

Senioral intergenerational cooperation requires the research, invention and implementation of innovative methods to support the sustainability of the well-being of retired teachers from the highlighted groups of people – the seniors from ASEM [12]. The continuity of the intergenerational activity at the transition of the person from one group of seniors to another requires the resolution of the psychological state of the pensioners: the person is psychologically overloaded, he is "at the crossroads" of the transition from one

category of activities to another.

The **TELE-2020** theme reflects the requirements of the society of robotic involvement in the lives of the elderly: "Intelligent systems with creativity and emotionality"; "Artificial Intelligence to help the Elderly"; "Smart robots"; "Morality and Spirituality in the Digital Age." We present just a few of the topics addressed by the researchers for the current TELE-CONFERENCE: "ASEM is my home" & "My house is EMSA ": New paradigm; Intelligent waste sorting system; The arrival of the homo-intelligence paradigm and new forms of work organization; Practical expertise in building a secure network infrastructure; Robotic assistance for the elderly and people with disabilities; Automation of the legal process; Acrobatic intelligence; Old age in the digital age; Adopting a healthy lifestyle in the Society of Consciousness.

The scope of the topics addressed is to meet the requirements of Europe's ageing population while promoting healthy and safe ageing. Research is aimed at creating methods to improve the lives of all the elderly and, first of all, professionals who have reached the retirement age (hereinafter referred to as seniors), the involvement of robotic technologies in the daily life of the elderly, the continuity of the work of these seniors in the same enterprise, in which the seniors are currently acting, and will act in the future until the deepest age.

11. TELE-2021 [13].

The communications to the International TELECONFERENCE of young researchers "Creation of the Society of Consciousness" (TELE-2021), 10th edition, 12-13 March 2021, represents the results of research and implementations generally carried out within COST Action CA16226: *Indoor Living Space Improvement: Smart Habitat for the Elderly* and COST Action CA19136: *International Interdisciplinary Network on Smart Healthy Age-friendly Environments*, and under the patronage of the Romanian-American Academy of Arts and Science.

The results of the research presented and selected to be communicated at TELE-2021 are structurally

presented at the meetings of the 3 Plenary Sections and 5 Ordinary Sections of this international forum. TELE-2021 highlighted a set of research results in the research and implementation directions of the actions envisaged by the International Interdisciplinary Network on Smart Healthy Age-friendly Environments (NET4Age-Friendly):

WG1: User-centred inclusive design of age-friendly environments and communities,

WG2: Integrated health and well-being pathways,

WG3: Digital solutions and large-scale sustainable implementation,

WG4: SHAFE impact and sustainability: policy development, funding forecast and cost benefit evaluations, and

WG5: Reference Framework.

At TELE-2021, the results of research carried out in the research and implementation directions of the actions envisaged by COST Action CA16226: *Smart Habitat for the Elderly (SHELD-ON)*, which intends to achieve specific objectives on Research Coordination: RCO1: To define and provide all relevant inputs for the design and development of Smart Support Furniture and habitats from different disciplines: Health care, Psychology, Ergonomics, Construction, etc., and from the users: elderly, caregivers, etc.

RCO2: To design and create innovative ICT solutions that will be integrated into Smart Support Furniture and habitat environments.

RCO3: To design, develop and test smart support furniture and habitat environments according to user's needs and further validated by these users (elderly and caretakers) for an active ageing.

RCO4: To ensure dissemination, evaluation and exploitation of the Action's results together with establishing a strong network with the relevant industrial stakeholders.

At the TELE-2021 were discussed:

1. Psychology and Impact of Professional Transition Ecosystems,
2. Continuity of the intellectual and emotional activities of older people,
3. Sustainability of intergenerational friendly

environments,

4. Professional environments and communities of employees, associates and affiliates, and
5. Economic digital solutions in the context of continuous sustainable learning.

10. TELE-2022 [14].

At the International TELECONFERENCE of young researchers "Creating the Society of Consciousness" (TELE-2022), 11th Edition of 18-19 March 2022 were discussed the research results obtained in the Research Directorate: "The friendly interaction of adults in the continuous intergenerational cooperation in the workplace until deep old age". For the year 2022, the Association "Seniors of AESM" and co-partners in Europe, in the research direction "Creating the Society of Consciousness", proposes the following investigative activities: (1) Designing age-friendly intellectual and emotional environments and communities; (2) Digital solutions and large-scale sustainable deployment; (3) Impact and sustainability of SHAFE: policy making, funding forecasts and cost-benefit assessments; (4) Healthcare, psychology and ergonomics of the professional ecosystems of employees, associates and affiliates; (5) Design and creation of innovative ICT solutions integrated into the smart support for active ageing, and (6) Digital economic development.

The TELE-2022 international conference was a real international success.

Older people "around the retirement period" in most cases want to continue their activities at work, where they have worked for a long time. That's what it's all about (1) persons employed in the labor force in the last 5-6 years before retirement (employees), (2) retired persons with continuous part-time activity at work (associates) and (3) persons retired without activity (affiliates). It makes sense to organize the continuity of the activities of these groups of adults at the "mother enterprise". It is also psychologically normal for adults to continue their activities by working together with young people in intergenerational communities. Such a community with the title: Association "Seniors of AESM" already

activates for two years within the Academy of Economic Studies of Moldova (AESM).

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