

Mihai Draganescu

Curriculum Vitae

Born on October 6, 1929 at Faget - Prahova, Romania.

Married (1957), Nora Rebreanu.

EDUCATION :

1952 B.Sc. Electrical Engineering, "Politehnica" University of Bucharest. **1957** Ph.D. Electron Devices, "Politehnica" University of Bucharest. **1974** Doctor Habilius (Doctor docent), "Politehnica" University of Bucharest.

ACADEMIC TITLES :

1974 Corresponding member of the Romanian Academy. **1990** Full member (academician) of the Romanian Academy.

DIDACTICAL ACTIVITY :

1951 Assistant Professor, "Politehnica" University of Bucharest. **1956** Lecturer, "Politehnica" University of Bucharest. **1958** Associate Professor, "Politehnica" University of Bucharest. **1965** Professor, "Politehnica" University of Bucharest. **1992** Honorary Professor, "Politehnica" University of Bucharest.

FUNCTIONS :

1962 - 1966 Deputy Dean and Dean of the Department of Electronics and Telecommunications, "Politehnica" University of Bucharest. **1963-1985** Head of chair of electronic devices and circuits, University Politehnica of Bucharest. **1965 - 1967** President of the Commission for metallurgy, mechanical engineering, electrical and electronic engineering of the National Council for Science and Technology. **1967 - 1971** Permanent Secretary of the Governmental Commission for Informatics. **1972 - 1976** Vicepresident of the National Council for Science and Technology. **1969 - 1970** Founder and Director of the Institute for Research of Electronic Components. **1976 - 1985** General Director of the Central Institute for Management and Informatics. **1985 - 1990** Head of the Chair for Electronic Technology and Microelectronics, "Politehnica" University of Bucharest. **Dec. 1989 - June 1990** Deputy Prime-Minister of the provisional Government after the Romanian Revolution of December 1989. **1990 - 1994** President of the Romanian Academy. **1994 - 1996** Ambassador of Romania in the Kingdom of Belgium. **1996 -** Senior Researcher I at the Institute for Artificial Intelligence of the Romanian Academy.

SCIENTIFIC POSITIONS :

1965 - 1985 Member of the National Council for Science and Technology. **1978 - 1991** Vicepresident and President of the Commission for the Contemporary Scientific Revolution of the Romanian Academy. **1980 - 1985** President of the Commission for Forecast of the Romanian Academy. **1987 - 1993** Honorary President of the annual Romanian Semiconductor Conference. **1991** Honorary member of AGIR (General Association of the Engineers of Romania). **1992 - 1994** Founder and president of the Section for Science and Technology of Information of the Romanian Academy. **1993 - 1996** Honorary President of the Scientific Council of the Institute of Microtechnology. **1994** Honorary member of the Association of Scientists of Romania; 1996, honorary member of the Academy of Scientists-Romania. **1997** Founder and President of the Forum for the Information Society; 2001-2002 honorary president. **1998** Member of the Presidium of the Romanian Academy. **1998** President of the Section for the Science and Technology of Information. **2001-2002** President of the Scientific Council of the National Programme for research-development INFOSOC (information society). **2001** Honorary Copresident of the Romanian Federation of Biomedical Engineering. **2001** Honorary member of the National Association of Software Enterprises. **2003** President of the Scientific Council of the National Institute for Research and Development in Informatics (ICI). **2003** Personal adviser for science of the Prime-minister of Romania.

CULTURAL POSITIONS :

1983 Member of the Romanian Committee of the History and Philosophy of Science. **1990 - 1994** Founder and director of the magazine "Academica". **1991** Founder member of the " Titulescu European Foundation" and member of the Council of the Foundation. **1991 - 1994** Honorary president of the "Nicolae Iorga Foundation", Valenii de Munte. **1991 - 1994; 1998- ...** President of the Romanian Committee of the History and Philosophy of Science. **1992 - 1994; 1998 - ...** Director of the volumes "NOESIS". **1992** Member of the Council of the Euro-Atlantic Centre, Bucharest. **1992** Founder member of the "Lucian Blaga " Foundation, Sebes, Alba. **1993** Founder member and president (1993-2001) of the Friendship Association ROMANIA - GREECE. **1995** Founder member of the Romanian Association for the Club of Rome. **1996** Honorary ambassador. **1997** President of the Section of Philosophy and Psychology of the Academy of Scientists- Romania. **1998** Founder member of the National Foundation for Science and Art. **2001** Honorary President of the Romanian Association for Electronic Commerce.

POLITICAL ACTIVITIES

1963-1989 Member of PCR (Romanian Communist Party). **1968-1985** Member of the National Council of FDUS (The Front of Democracy and Socialist Unity). 1968-1974 Vicepresident of FDUS. **1969-1975, 1980-1985** Member of Parliament (Great National Assembly). **1969-1974** Deputy member of the Central Committee of PCR. **1972** Counsellor of the Secretary General of PCR

1989-1990 Member of the National Council of the National Salvation Front. **1998- 2000** Member of PDSR (Party of the Social Democracy of Romania). Member of the National Council.

INTERNATIONAL ACTIVITIES AND RECOGNITIONS :

1965 Member of the Institute of Electrical and Electronic Engineers(IEEE), New York. **1971** Commandeur de la Legion d'Honneur - France. **1976** Senior member IEEE. **1976** Corresponding member of the Equadorian Institute of Natural Sciences. **1981 - 1984** Member of the International Committee on the role of scientific and engineering societies in development (New Delhi and Washington). **1984 - 1987** Counselor of the magazine "Impact on Science and Society" of UNESCO. **1986 - 1990** President of the Romanian IEEE Section in development. **1990** Member of the European Cultural Society - Venice. **1992** Honorary Member of the Academy of Sciences of Moldavia. **1992** Active member of Academia Scientiorum et Artium Europea - Salzburg. **1992** Honorary Member and Distinguished Fellow of ISINI (International Society for Interchange of New Ideas), Boston, USA. **1993** Fellow of WAAS (World Academy of Art and Science). **1993** Corresponding member of the Hellenic Cultural Foundation, Athens, Greece. **1994** Fellow IEEE. **1997- 2002** Affiliate of the Center for Frontier Sciences, Temple University, Philadelphia, PA, USA. **1997** Member of the Association for the Scientific Study of Consciousness. **1997** Member of the KATEDRAST Group (Bucharest- GMU Fairfax USA) for new foundations of science. **1998** Life Fellow IEEE. **1999** The twentieth century award for achievement in recognition of outstanding achievements in the field of Electronice and Philosophy of Science, International Biographical Centre Cambridge, England. **2000** IEEE THIRD MILLENIUM MEDAL for outstanding contributions in in the domain of electronic engineering.

MAIN PRIZES AND NATIONAL AWARDS :

1963 Prize of the Ministry of Education for scientific research. **1964** State Prize Laureate for works in semiconductor devices (the volume 'Electronic processes in semiconductor devices') **1966** The Order "Meritul Stiintific " (Science Honour, II-nd class). **1971** The Order "Steaua Republicii" (Star of the Republic, III-rd class). **1979** The Order "Ordinul Muncii" (Labor Order, II-nd class). **1984** Prize "Flacara" for contributions to the

development of original thinking. **1986** Prize "Amfiteatru-Viata Studenteasca" for the volume of philosophy "Orthophysics". **1989** Centenary Medal 'Mihai Eminescu' from the University Center Timisoara. **1996** The Prize "Constantin Noica" of the Association of Scientists of Romania for contributions to the development of Romanian philosophy. **2000** Romanian Academy Diploma "MERITUL ACADEMIC", as a recognition of the important contribution for the rebirth and progress of the Romanian Academy. **2000** The order STAR OF ROMANIA, comandor. **2000** The prize of the Broadcasting Society of Romania - the channel 'Romania cultural' for the creative activity and originality in the philosophy of science. **2002** The Medal STEFAN ODOBLEJA 100.

COMMUNICATIONS AND PERSONAL CONFERENCES ABROAD :

In all the years of activity: Tokyo, Sankt-Petersburg (Leningrad), Prague, Moscow, Berlin, George Mason University - Fairfax - USA, New Delhi, Rome, Heidelberg, Beijing, Lindkoping-Sweden, Athens - Greece, Mons-Belgium, Bruxelles, Budapest, Chisinau.

BOARDS

AUTOMATICA SI ELECTRONICA. Founder of the monthly magazine ACADEMICA (director 1990-1994). The Romanian Review for the Science and Technology of Information; Noesis, director. The Noetic Journal (USA). Proceedings of the Romanian Academy, series A, mathematics, physics, technical sciences, science and technology of information. The series of volumes 'Philosophy of integrative Science', president-chief editor. Editorial Advisory Board of the International Series of volumes "Readings in Consciousness Studies", The Noetic Press, Orinda, California. NOEMA (Bucharest)-director.

THE MAIN RESULTS OF THE ACTIVITY (THE PROFESSIONAL LIFE)

1. **Created the Romanian School of Electron Devices and Microelectronics**, by original scientific works and the volumes *Electronic Processes in semiconductor devices of circuits* (1962, State Prize 1964), *Solid State Electronics* (1972), *Functional electronics* (1991, main author), *Transistor circuits* (1961, co-author), by the great number of specialists formed and promoted, in his quality of professor and head of chair in these domains at the University 'Politehnica' of Bucharest, by the courses taught for the first time in Romania, by founding the Institute of Electronic Components and by managing the activity concerning the fabrication of integrated circuits in Romania, for determining the introduction of silicon technology in Romania, moving further the Romanian school

of electronics founded by prof. Tudor Tanasescu. One of the new ways was the creation in the years 1978-2001 of the concepts of functional electronics, beginning with lectures for the students, and then becoming a discipline combining electronics, informatics, and original philosophical elements, with an accent on the links between technology and society.

2. **Leaded directly one of the greatest technological programs of Romania – in the domains of integrated circuits, electronic computers and informatics-** being implied in this program for 20 years (1965-1985); for 13 years was the head (manager) of Romanian informatics, publishing works (theoretical concerning the information and conceptual regarding the Informatic Society in Romania), building the territorial computing centers of the country, high schools of informatics, managing the research in the domain and forming a great number of specialists. He was the leader of the team which discussed with companies of the developed countries of the world for the building in Romania a factory for integrated circuits and a factory of computers of the third generation, ended successfully with France, by this establishing the basis of professional electronics in Romania. He determined the founding of the Central Institute of Informatics and of the Institute of Computers establishing the basis for the development of informatics in Romania. His ideas concerning these activities were edited in his volumes, *System and Civilization (1976)*, *The 2-nd Industrial Revolution (1980)*, *Informatics and Society (1987)* and others, being published previously in periodicals between the years 1970-1985. Beginning with the year 1990 he determined the foundation of the National Commission of Informatics at the level of Government, of the Institute for Artificial Intelligence at the Romanian Academy, writing studies concerning the Information Society and proposing the extension of this society toward the Knowledge Society (*From the information society to the knowledge society, 2003*). Elaborated a theory of the structural-phenomenological information (1983-2001).
3. **Created an original philosophy of science in the romanian culture, and not only,** publishing the volumes *The Depths of Existence (1979)*, *Orthophysics (1985)*, *Spirituality, Information , Matter (1988)*, *Information of matter (1990)*, *Essays (1993)*, *L'Univérsalité ontologique de l'information (1996)*, *Principles of integrative science (2003, in collaboration with Menas Kafatos-USA)* and others, conceiving a structural-phenomenological vision of existence; in 2000 began an extension of the classical structural theory of categories and functors to the phenomenological and structural-phenomenological domains for a integrative modeling of reality.
4. **Initiated and managed the rebirth of the Romanian Academy (1990-1994)**, initiating the election of 50 new members, founded the Section for the Science and Technology of Information of the Romanian Academy, brought into light values of the Romanian science and culture, had the main contribution for resuming the classical orthograpy of the Romanian language, published the first Romanian book on Internet (1996).

GROUPS OF WORKS

- *Original contributions concerning the explanation of the nature of electrical capacitances of the electron tubes and of semiconductor devices (1957-1962)*
- *Original contributions to the theory of nonlinear oscillations of electronic circuits (1957-1962)*
- *Original contributions to the theory of semiconductor devices and to the theory of the transistor at high levels of injection (1962-1969)*
- *Studies, communications and programs concerning microelectronics (1962-1988)*
- *The concepts of Functional Electronics (1978-2001)*
- *Original concepts, studies, communications and programs concerning the Information Era (Information society, Knowledge Society, Consciousness society) (1970-2003...)*
- *The structural-phenomenological theory of Information (1983-2001)*
- *Original papers concerning the structural-phenomenological orthophysical philosophy (1984-2001)*
- *Original papers concerning Mind and Consciousness (1986-2001).*
- *Categories and functors for the structural-phenomenological modeling in integrative science (1999-2003...)*
- *Original works concerning the mode of innovation and society (1971-2003)*
- *Papers concerning the Romanian history of science and technology (1976-2003...)*

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