

In memoriam

Paul Dan CRISTEA



Paul Dan CRISTEA was born in Bucharest, on February 13, 1941 and passed away on April 17, 2013.

Paul Cristea graduated the Faculty of Electronics and Telecommunications ("Politehnica" Institute of Bucharest, 1962) and the Faculty of Physics (University of Bucharest, 1969). He obtained a Ph.D. in Technical Physics (UPB, 1970). He completed ten month research stage at the Dept. of Materials Science and Eng., Northwestern University, Evanston, USA (1974–75). He carried out twelve months research assignment at ETRO Dept. of Vrije Universiteit Brussel, Belgium (2008).

Prof. Cristea was Director of Studies at Dept. of Engineers Sciences, 1990–2008 (in present, Faculty of Engineering in Foreign Languages at UPB), the first of its kind in Romania, with all courses in English, French and German. He was instrumental in developing the Electrical Eng. and Computer Science Division of this new school. He was instrumental in founding new types of engineering schools in Romania, with up-to-day structure, content and methodology. He organized the necessary training of trainers, based on a large academic mobility scheme financed from EU and national funds. He initiated the first master schools on Biomedical Engineering and on Bioinformatics in Romania.

Prof. Cristea was Vice-Rector of the University "Politehnica" of Bucharest (UPB) in the PhD Studies and Research domain (1990–1992).

In the interval 1990–92, Paul Cristea was Adviser to the Secretary of State at the Dept. of Science, Ministry of Education and Science, involved in elaborating the department policy and priority research domains.

He gives the courses: Electrotechnics, Circuit Theory, Digital Signal and Image Processing, Neural Networks, Bioinformatics, System Biology at the Faculty of Control Systems and Computer Science and the Faculty of Electrical Engineering in Foreign Languages. Professor Cristea had extraordinary accomplishments in engineering education that have contributed to the formation

of many generations of specialists in new professional areas emerging from electrical engineering.

Author or co-author of more than 98 papers in peer reviewed Romanian and international scientific journals, 386 papers published in the proceedings of national and international conferences in his fields of expertise, and has contributed to more than 36 books and 2 monography. Prof. Cristea is author of chapter "*Representation and Analysis of DNA sequences*", in book *Genomic Signal Processing and Statistics*, Book Series on Signal Processing & Comm., Hindawi Publ. Corporation, 2005, pp. 15–65. He is author of chapter "*Discrete Event Systems*", Wiley Encyclopedia of Electrical & Electronics Eng., J. Wiley & Sons, Inc., editor J. Webster, 1999, vol. 5, pp. 612–632.

Prof. Cristea headed teams working on more than 68 national, 10 bilateral, 32 European and international research and educational projects and had 11 patents.

Main fields of expertise of prof. Cristea was: Nucleotide Genomic Signals; Signal and Image Processing; Modeling of Biological Signals; Digital Economic Signal Processing; Neural Systems; Evolutionary Intelligent Agents; Circuit Theory and Design; Computerized Medical Equipment; High Performance Electrical Batteries; Semiconductor Thin Layers.

Prof. Cristea played an extraordinary role as educator and leader in his field and in his profession, all of which have won him symbols of national and international recognition, out of which we mention here: *Fellow of IEEE*, Member of the *Romanian Academy, Engineering Science Division*, Member of Honor of the *Academy of Romanian Scientists*; Senior member of *IEEE Society* (1992), etc.

Prof. Cristea has received scientific awards: “Traian Vuia” – Romanian Academy Award for Research in Technical Sciences for the work on the *Electrochemical Batteries with Thermal Triggering*; “Constantin Miculescu” – Romanian Academy Award for Scientific Research in Experimental Physics, for the work on the *Photo voltaic Effects in Semiconductor Thin Films*; Cellular and Medicine Foundation best paper award for the article *Conversion of nucleotides sequences into genomic signals*; Ministry of Education Awards for *Scientific Research*.

Prof. Cristea was a visiting lecturer at many well known universities and research institutions (*Univ. of Southern California, CA, USA; Univ. of California Irvine, CA, USA; Univ. of California at Santa Barbara, USA, Swinburne Univ. of Technology, Melbourne, AU; RIKEN – Brain Science Institute, Tokyo, Japan, etc.*).

Prof. Cristea served as invited or keynote speaker for many conferences: *IWSSIP 2010, Rio de Janeiro, Brazil; BIBM 2009, Washington, USA; NATO – ARW 2008, Trento, Italy, BIOCAS 2004, Singapore, etc.*

Prof. Cristea organized conferences: *IWSSIP 2013* <http://iwSSIP.dsp.pub.ro>; *GSP 2011* <http://gsp2011.dsp.pub.ro>; *SIP2008* http://www.iasted.org/conferences/NSIP_2007 <http://nsip2007.dsp.pub.ro>; *GSP 2005* – <http://gsp2005.dsp.pub.ro/>, *IWSSIP 2001* <http://iwSSIP2001.dsp.pub.ro> and special sessions at conferences *IWSSIP 2012, ISCCSP 2010; CSCS 2007, IASTED 2004, and CEC 2000.*

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