CURRICULUM VITAE

Name: Zaharia Corneliu Nicolae – Actual position: Senior researcher 1st at Roumanian Academy – Stefan S. Nicolau Institute of Virology, 285 Mihai Bravu street, Bucharest.

Education: University of Bucharest Faculty of Physics; PhD - University of Bucharest

Other Specializations and Qualifications: Postgraduate Course, Institute of Internal Medicine, Bucharest, 1976 biostatistics; International course Postgraduate, University Bucharest ,1977, Computer and mathematical statistics; Postgraduate Course, Ministry of National Education, Informatics Training Center, 2000, Oracle; Postgraduate Course, Ministry EducatieiNationale, Informatics Training Center, 2002 Database Access with Visual Basic programming; Postgraduate Course, Ministry EducatieiNationale, Informatics Training Center, 2003, Programming in Java.

Professional experience in Institute of Virology "Stefan S. Nicolau": Study of viruses using physical methods, computational methods AI (neural networks, genetic algorithms, cellular automata), modeling of epidemics of AIDS, influenza, hepatitis, automatic data collection and processing epidemiological, medical informatics, bioinformatics, hardware applications in laboratory medical research, databases, web applications, lipid bilayers mathematical modeling, molecular simulation, nanostructures analysis.

Project manager: The study of disease / infection viral using modular systems ranked by artificial intelligence; Management of a computerized system for collecting information and tele morbidity data analysis results in repiratory viruses, according to European standards; Epidemiological and socio-economic impact of acute respiratory viral infections in the context of care given by family doctors; Retrospective studies on specific influenza infection epidemic prevention through vaccines; The developing a training system based on knowledge management for initiating risks acting on the human factor; Interdisciplinary cooperation in health using telematics technology; The study of mechanisms of depression and anxiety by molecular dynamics simulation and docking; Nanostructured systems for identifying viral antigens for use in medical diagnosis; Research on development of a structure (cognitive) complex including referential definition of serious risks in various socio-economic activities; System based on semantic knowledge and specific occupational protection against major risks (risk-Expert).

Books and chapters (7), articles (more than 190) scientific communications (more than 200) and patents (10). Books in the project field: C.N. Zaharia, Al Cristea, Algoritmi genetici si retele neuronale - doua noi paradigme de calcul, Editura Academiei, Bucuresti, 314 pp, ISBN: 973-27-0889-1, 2002; Al. Cristea, C.N. Zaharia, Sisteme modulare ierarhizate - Modele ale sistemelor biologice si sociale complexe, ierarhizate, cu algoritmi genetici, retele neuronale si automate celulare pe diverse niveluri de ierarhizare, Editura Universal DALSI, Bucuresti, 285 pp, ISBN: 973-8157-53-6, 2002.