

## Class of IAHSI - 2022

### Oleg Yu. Mayorov



Oleg Yu. Mayorov, MD, PhD, Dr.Sci is Professor and Head, Faculty of the Clinical Informatics and IT in Healthcare Management at the Kharkiv Medical Academy of Postgraduate Education, Professor of the Kharkiv National University of Radioelectronics (1992-1995), Professor of School of Medicine at the V.N.Karazin Kharkiv National University (2000-2020). Principal Scientist at Institute of Children and Adolescents Health Protection of National Academy of Medical Science. Member of National Higher Education Academy of Sciences, elected as WHO expert of digital health.

Oleg Yu. Mayorov is the founder of the Ukrainian Association for Computer Medicine (UAKM), Senior VP and Chief of the UACM Board, IMIA and EFMI representative of Ukraine, member of the EFMI Council.

Oleg Yu. Mayorov was Chief Medical Informatician of the Ministry of Health, focusing on the creation of a regulatory health informatics database, the informatization of medical institutions (design and implementation of Hospital Information Systems (HIS), the development of medical diagnostic IT).

On his initiative, the Ministry of Health set up the Coordinating Council and the Committee on Certification of information technologies in healthcare. Oleg Yu. Mayorov was a Chair of the Consolidated Commission on "Telemedicine" of the Ministry of Health and National Academy of Medical Sciences (NAMS) which collaborated with the European Commission on Telemedicine (DGXIII).

Oleg Yu. Mayorov was founder of the UACM Web-portal ([www.uacm.kharkov.us](http://www.uacm.kharkov.us)) and Ukrainian "mirror" server of the European Health Telematics Observatory (EHTO) and was a member of the Strategic Board of Directors of the EHTO servers in national languages.

Under his leadership, the Department of Healthcare Informatization in the **Ukrainian Institute of Strategic Studies** of the **Ministry of Health** was set up, where he launched a project "Hospital Information Systems of Ukraine".

Scientific activity. The basic scientific direction of Oleg Yu. Mayorov is the development of diagnostic technologies in neuro- and cardi diagnostics, intellectual training systems, and information-processing in health care. Under scientific management of Oleg Yu. Mayorov, new methods, technologies and algorithms for the analysis of qEEG and Heart Rate Variability were developed. These methods were incorporated in the computerized qEEG systems *NeuroResearcher® Innovation Suite* & qHRV - *Cardio-Tension-Test®*. Among them: multidimensional linear neurodynamic systems analyses; methods to provide a quantitative estimation of functional asymmetry of hemispheres, and the "contribution" of each structure to overall system activity; new technologies and algorithms for nonlinear EEG analysis (deterministic chaos); new methods and algorithms for Heart Rate Variability analysis - detect R-peaks in animals behaving freely.

Under direction Oleg Yu. Mayorov, was designed Hospital Information System (*Institute-Mi&T@Clinic*<sup>®</sup>). The system is designed to work in the conditions of insurance medicine.

Oleg Yu. Mayorov is author of more 330 scientific publications, including textbooks and monographs. Under his scientific management 8 PhD and Dr.Sci. dissertations have been concluded successfully.

Oleg Yu. Mayorov has received an academician P.K. Anokhin medal of the Normal Physiology Institute of the Academy of Medical Sciences of USSR for development "Theories of functional systems" for his outstanding contribution to the creation of the newest medical information technologies. Oleg Yu. Mayorov was awarded the Gold Medal of the Ukrainian Professional League of Psychiatrists for creating effective neurodiagnostic EEG technologies.

By sharing new technologies with international colleagues, was invited to universities and institutes to lecture on new approaches to qEEG analysis. These included the National Institute of Neurological Disorders and Stroke (NINDS),USA, the National Institute on Aging (NIA), the Pittsburgh University (Neuroimmunological Dep.), the State University of New York, the Georg-August-University in Göttingen, the University of South Alabama, the Institute of Computer Systems, Zurich, the University of Zurich (Institute of Pharmacology), and the Georg-August-University in Göttingen.

Prof. Oleg Yu. Mayorov is the founder of the Department of Clinical Informatics and IT in Healthcare Management at the KhMAPE. He was a member of the Committee on Standards in Medical Education of the Ministry of Education and member of the experts Council for Medical and Biological Problems of the Higher Attestation Commission and was in charge of awarding of a PhD and DrSci degrees - "Biological and Medical Cybernetics and Informatics".

Oleg Yu. Mayorov is the founder and the Editor-in-Chief of the Journal «**Clinical Informatics and Telemedicine**», ISSN1812-7231; ISSN 2786-5800 (Online).