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Computational Intelligence in the Assessment of the Muscular System

Dr. Constantinos S. Pattichis

Wednesday, 27th October 2004 – 5:00-6:00 pm
University of Cyprus, E204 Lecture Room

Abstract: The lecture will cover the work carried out in the last 15 years in collaboration with the Cyprus Institute of Neurology and Genetics and the Department of Computer Science of the University of Cyprus in the development of computer aided diagnostic (CAD) systems for the assessment of neuromuscular disorders. Topics to be covered will include electromyographic (EMG) signal analysis, electron microscopy biopsy image analysis, and a diagnostic system incorporating the analysis of clinical, imaging, biochemical, and genetic findings

About the Speaker: Constantinos Pattichis received his diploma as technician engineer from the Higher Technical Institute in Cyprus, the BSc in Electrical Engineering from the University of New Brunswick, Canada, the MSc in Biomedical Engineering from the University of Texas at Austin, the MSc in Neurology from the University of Newcastle Upon Tyne, UK, and the PhD in Electronic Engineering from the University of London, UK. He is a Senior Scientist of the Department of Computational Intelligence of the Cyprus Institute of Neurology and Genetics as well as an Associate Professor with the Department of Computer Science of the University of Cyprus. His current research interests include health telematics, medical imaging, biosignal analysis and computational intelligence systems in medicine. He has published 33 refereed journal and 95 conference papers in these areas. He was Guest Co-Editor of the Special Issue on Emerging Health Telematics Applications in Europe of the IEEE Transactions on Information Technology in Biomedicine (TITB), and Chairman of the Medical and Biological Engineering and Computing Conference 98, and the IEEE MELECON 2000. He served as chairman of the IEEE Cyprus Section, and the Cyprus Society of Biomedical Engineering and Medical Physics. He serves as Associate Editor of the IEEE TITB, and is a Senior Member of the IEEE.

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