

Department of Informatics & Department for External Relations

Faculty of Science, Jan Evangelista Purkyně University

Organize

Seminars & Panel Discussion on September 7, 2023

Seminars



Unlocking the AI Potential: Accelerating Growth for the 5th Industrial Revolution

Speaker: Panos M. Pardalos, Ph.D.

Paul and Heidi Brown Preeminent Professor in Industrial & Systems Engineering at the University of Florida



Cognitive Architectures for Video Understanding

Speaker: Jose C. Principe, Ph.D.

Distinguished Professor of Electrical and Biomedical Engineering, and the Don D. and Ruth S. Eckis Chair of Electrical Engineering at the University of Florida



Information Processing in the Human Brain: What are Our Models Missing?

Speaker: Roman Belavkin, Ph.D.

Associate Professor and Reader in Informatics at Middlesex University London

Panel discussion with questions and answers on

Tips to Improve Your Research Skills

Our Panellists



Panos M. Pardalos

University
of Florida



Jose C. Principe

University
of Florida



Roman Belavkin

Middlesex
University



Hossein Moosaei

UJEP

Coordinator: Hossein Moosaei, Department of Informatics, UJEP

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About the Speakers

Panos M. Pardalos, Ph.D.

Paul and Heidi Brown Preeminent Professor in Industrial & Systems Engineering at the University of Florida

Pardalos was born in Drosato (Mezilo) Argitheas in 1954 and graduated from Athens University (Department of Mathematics). He received his PhD (Computes and Information Sciences) from the University of Minnesota. He is a Distinguished Emeritus Professor in the Department of Industrial and Systems Engineering at the University of Florida, and an affiliated faculty of Biomedical Engineering and Computer Science & Information & Engineering departments. Panos Pardalos is a world-renowned leader in Global Optimization, Mathematical Modeling, Energy Systems, Financial applications, and Data Sciences. He is a Fellow of AAAS, AAlA, AIMBE, EUROPT, and INFORMS and was awarded the 2013 Constantin Caratheodory Prize of the International Society of Global Optimization. In addition, Panos Pardalos has been awarded the 2013 EURO Gold Medal prize bestowed by the Association for European Operational Research Societies. This medal is the preeminent European award given to Operations Research (OR) professionals for “scientific contributions that stand the test of time.” Panos Pardalos has been awarded a prestigious Humboldt Research Award (2018- 2019). The Humboldt Research Award is granted in recognition of a researcher’s entire achievements to date – fundamental discoveries, new theories, insights that have had significant impact on their discipline. Panos Pardalos is also a Member of several Academies of Sciences, and he holds several honorary PhD degrees and affiliations. He is the Founding Editor of Optimization Letters, Energy Systems, and Co-Founder of the International Journal of Global Optimization, Computational Management Science, and Springer Nature Operations Research Forum. He has published over 600 journal papers, and edited/authored over 200 books. He is one of the most cited authors and has graduated 71 PhD students so far. Details can be found in www.ise.ufl.edu/pardalos Panos Pardalos has lectured and given invited keynote addresses worldwide in countries including Austria, Australia, Azerbaijan, Belgium, Brazil, Canada, Chile, China, Cyprus, Czech Republic, Denmark, Egypt, England, France, Finland, Germany, Greece, Holland, Hong Kong, Hungary, Iceland, Ireland, Italy, Japan, Lithuania, Mexico, Mongolia, Montenegro, New Zealand, Norway, Peru, Portugal, Russia, South Korea, Singapore, Serbia, South Africa, Spain, Sweden, Switzerland, Taiwan, Turkey, Ukraine, United Arab Emirates, and the USA.

Jose C. Principe, Ph.D.

Distinguished Professor of Electrical and Biomedical Engineering, and the Don D. and Ruth S. Eckis Chair of Electrical Engineering at the University of Florida

Jose C. Principe is a Distinguished Professor of Electrical and Computer Engineering and Biomedical Engineering at the University of Florida where he teaches statistical signal processing, machine learning and brain computer interfaces modelling. He is Eckis Endowed Professor and the Founder and Director of the University of Florida Computational Neuro Engineering Laboratory (CNEL) www.cnel.ufl.edu. His primary area of interest is time series analysis in functional spaces, information theoretic learning and AI cognitive architectures.

Dr. Principe is an IEEE, AAAS, IABME, AIMBE and NDA Fellow. He was awarded the IEEE Neural Network Pioneer Award from the Computational Intelligence Society, the IEEE Shannon Nyquist Technical Achievement Award from the Signal Processing Society, the EMBS Career Achievement Award, and the Teacher Scholar of the Year from the U. of Florida. He was the past Chair of the Technical Committee on Neural Networks of the IEEE Signal Processing Society, Past-President of the International Neural Network Society, and Past-Editor in Chief of the IEEE Transactions on Biomedical Engineering. Dr. Principe has more than 800 publications and an H index of 95 (Google Scholar). He directed 108 Ph.D. dissertations and 65 Master theses. He wrote in 2000 an interactive electronic book entitled “Neural and Adaptive Systems” published by John Wiley and Sons and more recently co-authored several books on “Brain Machine Interface Engineering” Morgan and Claypool, “Information Theoretic Learning”, Springer, and “Kernel Adaptive Filtering”, Wiley.

Roman Belavkin, Ph.D.

Associate Professor and Reader in Informatics at Middlesex University London

Roman Belavkin’s research concerns information dynamics and geometric analysis of learning, adaptive and evolving systems. From 2009 he was leading a collaboration between mathematicians, computer scientists and biologists from four universities in England to study information dynamics in evolutionary systems. In this project, funded by several Research Councils in the United Kingdom, Roman and his collaborators used combinatorics and the value of information theory to developed mathematical theory of optimal control of mutation rates. Testing this theory in vivo led to the discovery of plastic mutation rates in microbes (<https://dx.doi.org/10.1038/ncomms4742>). Roman studied the value of information for generalized information divergences and properties of associated optimal Markov transition kernels. He also studied geometric and topological properties of classical and quantum measures of information.

Schedule:

Opening speech (doc. Slavík, vice-rector for science and research): 9:45 – 10:00

Prof. Panos M. Pardalos: 10:00 – 11:00

Coffee and refreshment break: 11:00 – 11:30

Prof. Jose C. Principe: 11:30 – 12:30

Break: 12:30 – 12:45

Panel Discussion: 12:45 – 13:30

Lunch: 13:30 – 14:30

Dr. Roman Belavkin: 14:30 – 15:30