

Honoring Excellence in Education: A Workshop in Memory of

Professor Sophocles J. Orfanidis

Monday, November 11th
in the Cove, Busch Student Center



Biography: Prof. Sophocles J. Orfanidis is highly respected in the signal processing and engineering community for his legacy of well-crafted, widely cited, and extensively utilized books. His "Introduction to Signal Processing" book has been a primer for the design of FIR and IIR filters, found useful in various engineering applications, including the Filter Design Toolbox and the Signal Processing Toolbox in Matlab. His "Optimum Signal Processing" book has been a presentation masterpiece of linear, predictive and adaptive filtering, as well as spectrum estimation. Also popular is his book on "Electromagnetic Waves and Antennas" with an application-oriented perspective including many examples and exercises in Matlab. That book is considered a fine reference by experts in the field.

Prof. Orfanidis was highly recognized as a model educator. During his tenure at the Department of ECE at Rutgers University, he received several teaching awards, typically nominated by his students. His teaching and scholar devotion is also showcased by the fact that he acquired all necessary licenses of his books and made them freely available to his students (in fact, to everybody) from his Rutgers web page. As a result, Prof. Orfanidis has educated numerous students worldwide, while his work has been also translated to Korean and Chinese. His rigorousness, as well as attractive teaching style has placed him - unarguably - among the best teachers in the history of the Rutgers ECE Department.

Program

9:00-9:30

Introduction and Welcome

Athina Petropulu

Distinguished Professor Electrical and Computer Engineering

Yingying Chen

Professor and Chair, Electrical and Computer Engineering

Alberto M. Cuitiño

Dean, School of Engineering

9:30-10:00

Plenary Talk

Dorin Comaniciu

Senior Vice President for Artificial Intelligence and Digital Innovation at Siemens Healthineers

Artificial Intelligence in Medicine: The Road Ahead

10:00-10:45

Plenary Talk

Aylin Yener

Roy and Lois Chope Chair in Engineering at Ohio State University

Teaching Fundamentals for Next Generation Connectivity

Break

11:00-11:30

Tributes of Faculty and Former Students

Aggelos Bletsas

Professor, Electrical and Computer Engineering

Maja Skataric

Director of Pharmacometrics at Merck

Jianghong Luo

Principle Engineer at Qualcomm

11:30-12:00

Plenary Talk

Ricardo Losada

Engineering Manager, DSP & Audio Development Team, MathWorks

High-Order Parametric Equalizer Design

Lunch

1:30-2:00

Plenary Talk

Hana Godrich

Professor, Electrical and Computer Engineering

How the Pandemic Changed the Way We Teach and the Path to Democratizing Electrical Engineering

2:00-2:45

Plenary Talk

Waheed Bajwa

Professor, Electrical and Computer Engineering

Flipped Learning in the Spirit of Equitability: Celebrating the Legacy of S. Orfanidis