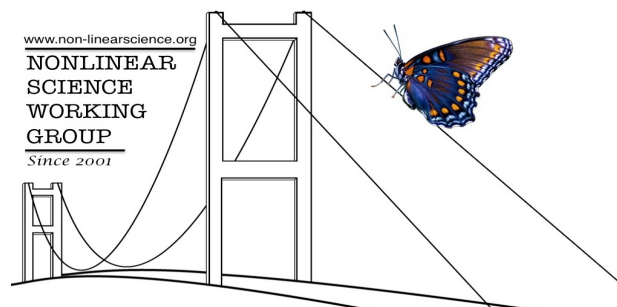


**Nonlinear Science Working Group**  
for exploring complex worlds  
Since 2001  
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*In Memory of Harald Fritzsche*  
**22<sup>nd</sup> International Symposium on  
"Disordered Systems: Theory and Its Applications" (DSS-2022)**  
**5 December 2022, Online meeting**

**ATTENTION: All times reported for the DSS-2022 are Turkiye time (GMT+3).**

**SYMPOSIUM PROGRAM**

**11:00** Welcome and Opening / Online group photo

**11:00-11:20** *"Harald Fritzsche"*

**G.Cigdem Yalcin**

Istanbul University, Istanbul, Turkiye.

**11:20-11:50** *"Real and Spectral-Space Topological Data Analysis to Understand the Dynamics of Complex Systems"*

**Siew Ann Cheong**

Nanyang Technological University, Singapore

**11:50-12:20** *"Investigating the Similarity of Ozone Pollutant Behavior Through Topological Data Analysis"*

**Nur Fariha Syaquina Zulkepli**

Universiti Sains Malaysia, Malaysia

**12:20-12:50** *"Community Detection of Dynamics Complex Networks Using Hybrid Methods"*

**Acep Purqon**

Institut Teknologi Bandung, Indonesia

**12:50-13:20** *"The Complexity of Electricity Price Time Series"*

**Leonardo Rydin Gorjao**

Norwegian University of Life Sciences, Norway

**13:20-13:50** *"Stochastic Thermodynamics and Fluctuation Theorems for Non-Linear Systems"*

**Jan Korbel**

Medical University of Vienna & Complex Systems Hub, Austria.

**13:50-14:00** Discussion and Closing / Online group photo

**REGISTRATION:** The DSS-2022 will take place on zoom platform and the zoom link will be posted to participants who have been registered to [gycalcin@istanbul.edu.tr](mailto:gycalcin@istanbul.edu.tr) (G.Cigdem Yalcin, Assoc.Prof. at Physics Department, Istanbul University) via e-mail. There is no registration fee for participation in the DSS-2022.

More info: [www.non-linearscience.org](http://www.non-linearscience.org)

G.Cigdem Yalcin (Scientific Coordinator of the Nonlinear Science Working Group)