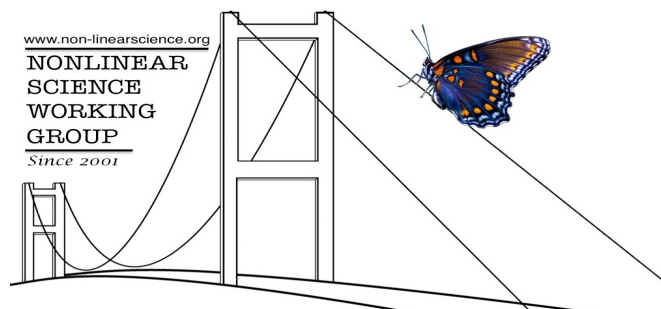


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**21<sup>st</sup> International Symposium on  
"Disordered Systems: Theory and Its Applications" (DSS-2021)**

**12 December 2021, Online meeting**

**ATTENTION:** All times reported for the DSS-2021 are Turkey time (GMT+3).

**SYMPOSIUM PROGRAM**

**13:00** Welcome and Opening /Online group photo

**13:00-13:20** *From Murray Gell-Mann to the Nobel Prizes and the Communities in Complexity Science*

**G.Cigdem Yalcin**

Istanbul University, Istanbul Turkey.

**13:20-13:45** *Analytical Approach to the Generalized Friendship Paradox in Networks with Correlated Attributes*

**Hang-Hyun Jo**

The Catholic University of Korea, South Korea.

**13:45-14:10** *Persistent Homology for Flood Early Warning Systems*

**Fatimah Abdul Razak**

Universiti Kebangsaan Malaysia, Malaysia.

**14:10-14:35** *Analysis of Volatility, Asymmetry Effect and Long-Term Memory on Foreign Exchange Rate using GARCH Asymmetry Model*

**Acep Purqon**

Physics of Earth and Complex Systems, Institute of Technology Bandung, Bandung, Indonesia.

**14:35-15:00** *Coexistence of Explosive Synchronization and Chimera in Multilayer Networks: Key Lies in Random Pinning*

**Sarika Jalan**

Indian Institute of Technology Indore, India.

**15:00-15:25** *Generalized Entropies for Complex Systems Modeling: an Overview and Characterization*

**Velimir Ilic**

Mathematical Institute of the Serbian Academy of Sciences and Arts, Belgrade, Serbia.

**15:30-15:40** Discussion and Closing /Online group photo

**REGISTRATION**

The DSS-2021 will take place on zoom platform and the zoom link will be posted to participants who have been registered to [gcyalcin@istanbul.edu.tr](mailto:gcyalcin@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-2021. More info: [www.non-linearscience.org](http://www.non-linearscience.org)

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