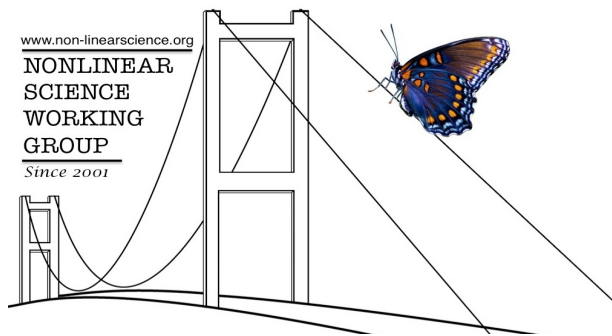


Nonlinear Science Working Group

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24th International Symposium on "Disordered Systems: Theory and Its Applications" (DSS-2024) 21-23 November 2024

Istanbul University*, İstanbul, Türkiye

21 November 2024 Thursday	
09:30 - 10:00	Registration
10:00 - 10:15	Welcome and Opening
	Women in Complexity Science Session
10:15 - 10:45	"Coupled dynamics on hypergraph: beyond pairwise interactions" Sarika Jalan Indian Institute of Technology of Indore, India
10:45 - 11:10	"Global challenges in environment as complex systems" G.Cigdem Yalcin Istanbul University, İstanbul, Türkiye
11:10 - 11:25	Coffee break
11:25 - 11:50	"Improving power-grid systems via topological changes, or how self-organized criticality can help power-grids" Geza Odor HUN-REN Centre for Energy Research, Hungary
11:50- 12:15	" "NMG" Instanton Universe" Nazmi Yilmaz Koç University, İstanbul, Türkiye
12:15 - 12:40	"A mathematical foundation of gradient harmonic grammar modeling of Greek lexical stress" Ilias Mittas and Michael Kanetidis Aristoteles University of Thessaloniki, Greece
12:45	Group photo
12:50	Campus tour
14:30 - 14:55	"Entropy-based measurements of self-organized complexity: A view on the dynamics of the dissipative standard map" Sevda Saltık Atatürk University, Erzurum, Türkiye

14:55 - 15:20	“Hydrogen bond networks reveal key residues in DHFR function” Tandaç Furkan Güçlü Sabancı University, İstanbul, Türkiye
15:20 - 15:45	“The impact of fractal calculus on Lyapunov exponents and memory effects” Ozan Kıyıkçı Atatürk University, Erzurum, Türkiye
15:45 - 16:00	Coffee break
16:00 - 16:25	“The effect of demographic stochasticity on predatory-prey oscillations” Solmaz Golmohammadi Institute for Advances Studies in Basic Sciences, Zanjan, Iran
16:25 - 16:50	“Integrated Science Technology Art and Mathematics: “I-STEAM” “ Burcu Türkkan STEM Istanbul Provincial Coordinator, Türkiye
16:50 - 17:00	Wrap-up session

22 November 2024 Friday

09:30 - 10:00	Registration
10:00 - 10:25	“Building network: the role of international academic relations in Istanbul University” Feyza Nur Tuncer Kılıç Istanbul University International Academic Relations Unit, İstanbul, Türkiye
10:25 - 10:50	“On the interplay of biological cell states, state dynamics and molecular information processing” John Lock University of New South Wales, Sydney, Australia
10:50 - 11:15	“Investigation of two-year COVID-19 pandemic spread behavior in the world using the nonlinear time series method” Hasan Tatlıpınar Yıldız Technical University, İstanbul, Türkiye
11:15 - 11:30	Coffee break
11:30 - 11:55	“Exploring non-linearity in prospective life cycle assessment: Insight from scaling up bioprocessess” Mine Güngörmüşler İzmir University of Economics, İzmir, Türkiye
12:30	Group photo
12:40	Süleymaniye Mosque visit
14:30 - 14:55	“Democracy of “dissensus” in thinking of a postmodern complex utopia” Balca Arda Kadir Has University, İstanbul, Türkiye
14:55 - 15:20	“Adaptation and resilience in urban complex systems: Istanbul’s earthquake risk and the politics of the maybe” Murat Güney Özyeğin University, İstanbul, Türkiye

15:20 - 15:35	Coffee break
15:35 - 16:00	“The correspondence between Jung and Pauli on the search for a single world(Unus Mundus) and the theory of synchronicity” Özlem Küskü Destek Publishing House Editor, Türkiye
16:00 - 16:25	“Nothingness and zuhur” Gediz Akdeniz Nonlinear Science Working Group, Türkiye
	Murray Gell-Mann Memorial Lecture
16:25 - 16:55	“The biggest gap in science: Complexity... & How to close it” Alberto Robledo Universidad Nacional Autónoma de México, Mexico City, Mexico
16:55- 17:00	Wrap-up session

23 November 2024 Saturday

“**Complexity** İstanbul Tour” guided by Gediz Akdeniz

More details will be given at the opening.

Istanbul University*: Istanbul University Rectorate Building, Mavi Salon (Blue Room), Beyazıt, İstanbul

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