

| Schedule (CST, UTC-5:00) | 8:00:00 AM | 8:30:00 AM | 9:00:00 AM | 9:30:00 AM | 10:00:00 AM | 10:30:00 AM | 11:00:00 AM | 11:30:00 AM | | 8:00:00 PM | 8:30:00 PM | 9:00:00 PM | 9:30:00 PM |
|--------------------------|---|---------------|---------------------|-----------------|-------------------|-------------|------------------|-------------|---|------------------------------|-----------------|--------------------|--------------------|
| 20 June Monday | Matteo Marsili | | Denis Boyer | Dalia Hernández | Course by Gorin | | Course by Markus | | . | Hirdesh Pharasi | Parisa Majari | José Luis Parra | |
| 21 June Tuesday | M. S. Santhanam | | Anirban Chakraborti | | Course by Gorin | | Course by Markus | | . | Omer Tamuz | | Harish Puppala | Vishwas Kukreti |
| 22 June Wednesday | Arturo Álvarez | Hans Baltazar | Sunil Kumar | | | | | | . | Luis Ángel Contreras | Mijail Martínez | Luciano Pomatto | |
| 23 June Thursday | Gourab Ghoshal | | Suchetana Sadhukhan | Daniel Vargas | Francisco Morales | | | | . | Markus Müller | | Thomas H. Seligman | Zeidy Muñoz-Torres |
| 24 June Friday | Areejit Samal | | Oswaldo Gómez | | Santosh Kumar | | | | . | No talks on Friday afternoon | | | |
| *Notes: | * Thomas Gorin and Markus Müller are continuing their courses during the conference week. | | | | | | | | | | | | |
| | * Friday we are finishing at 11a.m. | | | | | | | | | | | | |
| | * Mexico: UTC-5:00; India: UTC+5:30 | | | | | | | | | | | | |

Indo-Mexican Workshop: Multivariate Analysis & Machine Learning in Econophysics, Brain Activity, Sociophysics, and more.

Note The official schedule of the event is expressed in Mexico City's local time (UTC-5:00).

2nd week: Symposium

■ Monday, June 20th

- 7:45 h - *Opening remarks*
- 8:00 h - **Matteo Marsili**: *Featureless inference.*
- 9:00 h - **Denis Pierre Boyer**: *Learning abilities of non-Markovian random walks.*
- 9:30 h - **Dalia Jazmín Hernández Gallegos**: *Critical behavior in domain size dependent global spin exchange dynamics.*
- (**Break**¹)–
- 20:00 h - **Hirdesh K. Pharasi**: *Spectral and clustering analysis of the financial markets.*
- 21:00 h - **Parisa Majari**: *Coarse-graining of correlation matrices applied to financial markets.*
- 21:30 h - **José Luis Parra Aldrete**: *Random Hopfield networks from the point of view of Random Matrix Theory and k-means Clustering.*

■ Tuesday, June 21st

- 8:00 h - **M. S. Santhanam**: *Infectious diseases hazard map for India based on mobility networks.*
- 9:00 h - **Anirban Chakraborti**: *Applications of Network Theory: Biology to Finance.*
- (**Break**)–
- 20:00 h - **Omer Tamuz**: *Monotone Additive Statistics.*
- 21:00 h - **Harish Puppala**: *Susceptibility of renewable energy production to climate change.*
- 21:30 h - **Vishwas Kukreti**: *The effect of reddit sentiment on bitcoin returns.*

■ Wednesday, June 22nd

- 8:00 h - **Arturo Álvarez Cruz**: *Algorithms and applications of Reinforcement Learning.*
- 8:30 h - **Hans Christian Baltazar Flores**: *Relaxation in a disordered system of spins from classical stochastic dynamics to quantum dynamics.*

¹We will be continuing the courses on normal distribution and non-linear time series analysis, started last week.

- 9:00 h - **Sunil Kumar**: *Temporal network analysis of critical events in global financial market indices.*
- (**Break**)–
- 20:00 h - **Luis Ángel Contreras Toledo**: *Towards active perception in service robots.*
- 20:30 h - **Manuel Mijaíl Martínez Ramos**: *On the community structure induced by financial time series.*
- 21:00 h - **Luciano Pomatto**: *Matching markets.*

■ Thursday, June 23rd

- 8:00 h - **Gourab Ghoshal**: *Information transfer in co-location networks: inferring individual movement patterns from their acquaintances.*
- 9:00 h - **Suchetana Sadhukhan**: *Machine learning assisted time series analysis of air pollutants.*
- 9:30 h - **Daniel Vargas Méndez**: *Self-Organized criticality in cellular automata: Interdependence between mobile agents and stationary states in Conway's Game of Life.*
- 10:00 h - **José Francisco Morales Hernández**: *Data science in industry: expectation vs reality.*
- (**Break**)–
- 20:00 h - **Markus Franziskus Müller Bender**: *On Fourier Phases and their relevance for non-linear Time Series Analysis.*
- 21:00 h - **Thomas Henry Seligman Schurch**: *Correlations in fMRI brain data.*
- 21:30 h - **Zeidy Muñoz-Torres**: *Phases of spontaneous electrical brain activity.*

■ Friday, June 24th

- 8:00 h - **Areejit Samal**: *Forman-Ricci curvature: A geometry-inspired measure with wide applications in network science.*
- 9:00 h - **Jorge Oswaldo Gómez Muñoz**: *Lessons learned from production AI at scale.*
- 10:00 h - **Santosh Kumar**: *Statistics of squared Bures distance between random quantum states.*
- (**End of workshop's 2nd week**)–