LACIAM 2023 Program

	January 30st, 2023	January 31st, 2023	February 1st, 2023	February 2nd, 2023		February 3rd, 2023
	Monday	Tuesday	Wednesday	Thursday		Friday
7:30 - 8:10	Registration					
8:10 - 8:30	**Opening (Cultural Center)**					
08:30 - 09:15	**Susana Gómez Gómez** Complex Applications of Industry and Environment for Global Optimization **Cultural Center**	**André Luiz Diniz** Modelling of nonlinear/nonconvex aspects in SDDP algorithms: experience in the official models applied to the energy planning of the large-scale Brazilian system **Cultural Center**	**Alberto Paccanaro** Machine learning algorithms for making inferences on networks and answering questions in biology, medicine and pharmacology **Cultural Center**	**Claudia d'Ambrosio** Mathematical Optimization for Urban Air Mobility **Cultural Center**	08:30-10:10	**Thematic Session:** IM (317) -> 08:30 CFM 2 (308) -> 08:55 BIO 5 (307) -> 09:20
09:15 - 10:00	**Juan Carlos De Los Reyes** Bilevel learning for inverse problems **Cultural Center**	**Ruben Daniel Spies** Diffusion in inverse problems and inverse problems in diffusion **Cultural Center**	**Maya Stein** Graph theory: Forbidden subgraphs, Colourings and Applications **Cultural Center**	**José Luis Aragón** Vera Pattern formation in Turing systems with space varying diffusion **Cultural Center**		
10:00 - 10:30	**Coffee Break** **Cultural Center**	**Coffee Break** **Cultural Center**	**10:00 - 10:50: Coffee Break** **Poster Session 1** **Cultural Center**	**Coffee Break** **Cultural Center**	10:10 - 11:00	**Coffee Break** **Poster Session 2** **Cultural Center**
10:30 - 12:10	**Thematic Sessions:** BIO 1 (307) CPDE 1 (308) MFG 1 (317) NR 1 (318)	**Minicourse Christian Vergara** Numerical solution of coupled problems in the cardiovascular field **Cultural Center** **Thematic Sessions:** MFG 2 (307) SP 1 (308)	**10:50 - 12:30** **Thematic Sessions:** BIO 3 (307) CFM 1 (308) CPDE 2 (317) NR 2 (318)	**Minicourse Christian Vergara** Numerical solution of coupled problems in the cardiovascular field **Cultural Center** **Thematic Sessions:** MFG 3 (307) SP 2 (308)	11:00 - 11:45	**Soledad Villar** Machine learning that obeys physical law **Cultural Center**
12:10 - 13:40	**Lunch**	**Lunch**	**12:30 - 13:15** **Quick lunch (offered by FGV)** **Cultural Center**	**Lunch**	11:45 - 13:00	**Alvaro Riascos Villegas** Mathematical Models of Crime: Prediction, Discrimination, Interpretability and Equilibrium **Poster awards & Closure** **Cultural Center**
13:40 - 15:20	**Thematic Sessions:** ML 1 (307) OC 1 (308) SDE 1 (317)	**Thematic Sessions:** ML 2 (307) OC 2 (308) SDE 2 (317)	**13:15 - 14:00: Wil Schilders** Mathematics: key enabling technology for scientific machine learning **Cultural Center**	**Thematic Sessions:** FM 2 (307) OC 3 (308) RC 2 (317)		
15:20 - 15:50	**Coffee Break** **Cultural Center**	**Coffee Break** **Cultural Center**		**Coffee Break** **Cultural Center**		
15:50 - 17:30	**Thematic Sessions:** FM 1 (307) IP (308) RC 1 (317)	**Minicourse Ana da Silva** Graph Coloring Theory and Application **Cultural Center** **Thematic Sessions:** BIO 2 (307) NPDEOPT (308)		**Minicourse Ana da Silva** Graph Coloring Theory and Application **Cultural Center** **Thematic Session:** BIO 4 (307)		
17:40 - 18:40	**Panel discussion:** New Challenges in the Modern Industrial Mathematics **Cultural Center**	**Panel discussion:** Policies focusing on Gender Equality in Applied Math across LATAM Countries **Cultural Center**				
18:40 - 20:40	**Cocktail** **Cultural Center**			**19:30: Social Dinner**		

The value in parentheses shows the room in which the Thematic Session will occur. All of them are on the 3rd floor. You should use the access card.

Room 306: co-working space, available from 8am to 6pm

THEMATICS SESSIONS (TS)
BIO: Biomathematics
CFM: Novel Computational Methods for Coupled and Non-linear Problems Arising in Complex Fluid Mechanics
CPDE: Control and Stabilization for Partial Differential Equations
FM: Financial Mathematics
IM: Industrial Mathematics in Brazilian research centers
IP: Direct and Inverse Problems in Particle and Radiation Transport
MFG: New developments in Mean Field Games and Hamilton-Jacobi equations
ML: Mathematical Linguistics
NPDEOPT: Trends in numerical methods and approximation for PDE-constrained optimization
NR: Mathematical methods in Network Reliability
OC: Optimal control theory and applications
RC: Mathematical foundations of robot control
SDE: Recent contributions in stochastic differential equations
SP: Special topics in stochastic processes, random structures, and applications