

Friday, May 11, 2018

08:00 - 09:00 Registration and Breakfast

09:00 - 09:20 Opening Ceremony

Nashat Mansour, Dean, SAS, Lebanese American University
Rachel Hobeika, President, LSMS

09:30 - 10:20 Plenary Session

Vera Zeidan, Michigan State University, USA
Continuous Time Versus Discrete Time Optimal Control Problems

10:20 - 11:30 Session One

10:20 - 10:50 Georges Habib, Lebanese University

Obata-like equation on Riemannian manifolds

10:50 - 11:10 Wafa Saoud, Université de Poitiers

On The Cahn-Hilliard/Allen-Cahn Equations With Singular Potentials

11:10 - 11:30 Mouhammad Haidar, Beirut Arab University

Existence of a regular solution for 1D Green-Naghdi equations with surface tension (GNo) at a large time instant

11:30 - 11:45 Coffee Break

11:45 - 12:55 Session Two

11:45 - 12:15 Hind El Baba, Lebanese University

Analyticity of the semigroup generated by the Stokes operator with Navier-type boundary conditions in L^p -spaces

12:15 - 12:35 Aline Mefleh, Bourgogne Franche-Comté University and Lebanese University

Trend detection for heteroscedastic extremes

12:35 - 12:55 Rudy Issi, University of Balamand

Adaptive Mesh Refinement for Finite Differences: One Dimensional Dirichlet Problems

13:00 - 14:00 Lunch

14:00 - 14:50 Plenary Session

Giovanni Colombo, University of Padova, Italy
Some new optimal control problems with state constraints

14:50 - 16:00 Session Three

14:50 - 15:20 Ahmad Makki, Université de Poitiers

On the nonconserved Caginalp phase-field model based on Maxwell-Cattaneo law with two temperatures

15:20 - 15:40 Clara Al Kousseifi, University of Picardie Jules Verne and Lebanese University

Les équations de Navier-Stokes et un modèle de champ de phase traités par une méthode bi-grilles en éléments finis

15:40 - 16:00 Rim Al Dbaiassy, Saint-Joseph University and Pierre et Marie Curie University

A full discretization of the time-dependent Boussinesq (buoyancy) model with nonlinear viscosity

16:00 - 16:15 Coffee Break

16:15 - 17:05 Plenary Session

Adélia Sequeira, Instituto Superior Técnico, Portugal
Cardiovascular modeling and simulations. Applications to some clinical studies

17:05 - 18:15 Session Four

17:05 - 17:25

Fatima Abbas, Université du Havre and Lebanese University
Fluid-Structure Interaction Problems: Mathematical Analysis and Simulations of Blood Flow in Stenosed Arteries

17:25 - 17:45

Fatima Mroue, Lebanese University and Centrale Nantes
Positive nonlinear control volume finite element scheme for an anisotropic model of cardiac electrical activity

17:45 - 18:15

Oualid Kafi, Instituto Superior Técnico, Portugal
Mathematical Modeling of the Inflammatory Processes

Saturday, May 12, 2018

08:00 - 09:00 Breakfast

09:10 - 10:00 Plenary Session

Bernhard Lamel, University of Vienna, Austria
What is CR geometry?

10:00 - 11:00 Session One

10:00 - 10:30

Giuseppe Della Sala, American University of Beirut
Non-degenerate maps of CR manifolds

10:30 - 11:00

Arman Taghavi-Chabert, American University of Beirut
Lorentzian geometry and CR structures

11:00 - 11:15 Coffee Break

11:15 - 13:15 Session Two

11:15 - 11:35

Assaf Bassil, University of Balamand
A Statistical investigation of the air pollution effect on the human lungs

11:35 - 11:55

Moussa Hawwary, Beirut Arab University
Explicit Methods for Solving a Constant Coefficient Linear System of Conformable Fractional Differential Equations

11:55 - 12:15

Lamis Sabbagh, University of Montpellier and Lebanese University
On the Motion of Several Disks in an Unbounded Viscous Incompressible Fluid

12:15 - 12:45

Zouhair Mouayn, Sultan Moulay Slimane University, Morocco
A class of Berezin transforms

12:45 - 13:15

Kodakkal. K. Viswanathan, Kuwait College of Science and Technology, Kuwait
Free vibration of cylindrical shells filled with fluid

13:30 - 14:30 Lunch