Workshop on Analysis and Applications

PROGRAM

May 29, 2021

9.00 - 9.10: **Opening**

Chairperson: Anna Rita Sambucini

9.10 - 9.50: **Invited talk**
Jurgen Appell and Simon Reinwand (University of Würzburg, Germany)
Compactness Properties of Two Operators

9.55 - 10.15: **Gennaro Infante** (Università della Calabria) - *Eigenvalues of Elliptic Functional Differential Systems via a Birkhoff–Kellogg Type Theorem*

10.20 - 10.40: **Michele Piconi** (Università degli Studi di Perugia) - *On the convergence properties of Durrmeyer-Sampling Type Operators in Orlicz Spaces*

10.45 - 11.05: **Luigi Muglia** (Università della Calabria) - *Some results on the approximation of solutions of variational inequalities for multivalued maps on Banach spaces*

11.10 - 11.20: Break

Chairperson: Luisa Di Piazza

11.20 - 11.40: **Laura Poggiolini** (Università degli Studi di Firenze)
Hamiltonian methods in Optimal Control

11.45 - 12.05: **Zoltan Satmari** (University of Oradea, Romania)
Iterative Bernstein splines technique applied to fractional order differential equations

12.10 - 12.30: **Valeria Marraffa** (Università degli Studi di Palermo)
Differential inclusions: existence results and closure properties

12.35 - 12.55: **Marco Seracini** (Università degli Studi di Perugia)
Sampling type Kantorovich operators for eye fundus image reconstruction

Chairperson: Carlo Bardaro

15.00 - 15.20: **Marco Spadini** (Università degli Studi di Firenze)
Periodic perturbations of a class of Functional Differential Equations with applications to a HIV model

15.25 - 15.45: **Vittorio Colao** (Università della Calabria)
On the convergence rate of viscosity iterations

15.50 - 16.10: **Ilaria Mantellini** (Università degli studi di Perugia)
A class of integral operators that fix exponential functions

16.15 - 16.35: **Luca Zampogni** (Università degli Studi di Perugia)
A general method to study the convergence of nonlinear operators in Orlicz spaces

16.40 - 16.50: Break

Chairperson: Paola Rubbioni

16.50 - 17.10: **Danilo Costarelli** (Università degli Studi di Perugia)
Neural Network operators: approximation results

17.15 - 17.35: **Laura Angeloni** (Università degli Studi di Perugia)
Estimates in variation for sampling-type operators in multidimensional frame

2

17.40 - 18.00: **Anna Rita Sambucini** (Università degli Studi di Perugia)
Bartle-Dunford-Schwartz multivalued integral and its Radon-Nikodým representation

18.05: **Closure**