

March 3rd to 9th, 2013

workshop on mathematical methods and modeling of biophysical phenomena

Cabo Frio, Rio de Janeiro, Brazil

We hereby certify that, **Alexandre Ferreira Ramos**, USP - Escola de Artes, Ciências e Humanidades, participated in the workshop on mathematical methods and modeling of biophysical phenomena, held at Cabo Frio – Rio de Janeiro, from March 3 to 9, 2013 and presented the following work: **Noise reduction by coupling of stochastic processes and canalization in biology**

Cabo Frio, March 9, 2013.



Jorge Zubelli
Organizing Committee



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We hereby certify that, **Anna Marciniak-Czochra, Universität Heidelberg**, participated in the workshop on mathematical methods and modeling of biophysical phenomena, held at Cabo Frio – Rio de Janeiro, from March 3 to 9, 2013 and presented the following work:
Structured population model of fitness selection during cell differentiation

Cabo Frio, March 9, 2013.



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We hereby certify that, **Bonansea Thieullen**, **Université Paris VI**, participated in the workshop on mathematical methods and modeling of biophysical phenomena, held at Cabo Frio – Rio de Janeiro, from March 3 to 9, 2013 and presented the following work: **On a family of Markov Models Occuring in Biology. Examples in Neuroscience.**

Cabo Frio, March 9, 2013.



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We hereby certify that, **Chiara Mocenni**, **University of Siena**, participated in the workshop on mathematical methods and modeling of biophysical phenomena, held at Cabo Frio – Rio de Janeiro, from March 3 to 9, 2013 and presented the following work:
Effect of oscillating boundaries and internal noise on reaction-diffusion equations

Cabo Frio, March 9, 2013.

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We hereby certify that, ***Cristina Vilma Turner***, **Universidade Nacional de Cordoba - Famaf**, participated in the workshop on mathematical methods and modeling of biophysical phenomena, held at Cabo Frio – Rio de Janeiro, from March 3 to 9, 2013 and presented the following work: **Adjoint method for a tumour growth PDE-constrained optimization problem**

Cabo Frio, March 9, 2013.



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We hereby certify that, **Degond, Pierre, CNRS**, participated in the workshop on mathematical methods and modeling of biophysical phenomena, held at Cabo Frio – Rio de Janeiro, from March 3 to 9, 2013 and presented the following work: **Phase transition and hysteresis in alignment dynamics of self-propelled particles**

Cabo Frio, March 9, 2013.



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We hereby certify that, **Dietmar, Oelz, Johann Radon Inst. for Comp.Appl.Math. Austrian AC.Sciences**, participated in the workshop on mathematical methods and modeling of biophysical phenomena, held at Cabo Frio – Rio de Janeiro, from March 3 to 9, 2013 and presented the following work: **A viscous two-phase model for contractile actomyosin bundles.**

Cabo Frio, March 9, 2013.



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We hereby certify that, ***Etienne Tanré***, **Institut National de Recherche en Informatique et en Automatique**, participated in the workshop on mathematical methods and modeling of biophysical phenomena, held at Cabo Frio – Rio de Janeiro, from March 3 to 9, 2013 and presented the following work: **Global solvability of a network of integrate-and-fire neurons. of McKean-Vlasov type**

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We hereby certify that, **Farbod Roosta-Khorasani**, Univ. of British Columbia, participated in the workshop on mathematical methods and modeling of biophysical phenomena, held at Cabo Frio – Rio de Janeiro, from March 3 to 9, 2013 and presented the following work: **Data completion and stochastic algorithms for PDE inversion problems with many measurements**

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We hereby certify that, **Gaël Raoul, CNRS**, participated in the workshop on mathematical methods and modeling of biophysical phenomena, held at Cabo Frio – Rio de Janeiro, from March 3 to 9, 2013 and presented the following work: **PDEmethods to study evolution in spatially structured populations**

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We hereby certify that, **Gauthier Sallet**, **Institut National de Recherche en Informatique et en Automatique**, participated in the workshop on mathematical methods and modeling of biophysical phenomena, held at Cabo Frio – Rio de Janeiro, from March 3 to 9, 2013 and presented the following work: **mathematical analysis of wolbachia for Dengue control**

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We hereby certify that, **Jean Clairambault**, **Institut National de Recherche en Informatique et en Automatique**, participated in the workshop on mathematical methods and modeling of biophysical phenomena, held at Cabo Frio – Rio de Janeiro, from March 3 to 9, 2013 and presented the following work: **Combined anticancer drug delivery optimisation using physiologically structured cell population models**

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We hereby certify that, **Julie Mitchell, University of Wisconsin - Madison**, participated in the workshop on mathematical methods and modeling of biophysical phenomena, held at Cabo Frio – Rio de Janeiro, from March 3 to 9, 2013 and presented the following work:
Density Cluster NMA: Protein Decomposition for Normal Mode Analysis

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We hereby certify that, **Lucas M. Barberis**, **Consejo Nacional de Investigaciones Cientificas y Tecnicas**, participated in the workshop on mathematical methods and modeling of biophysical phenomena, held at Cabo Frio – Rio de Janeiro, from March 3 to 9, 2013 and presented the following work: **Description of Tumor Growth by Vectorial Universalities**

Cabo Frio, March 9, 2013.



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We hereby certify that, ***Maria Rita D'Orsogna***, **California State University Northridge**, participated in the workshop on mathematical methods and modeling of biophysical phenomena, held at Cabo Frio – Rio de Janeiro, from March 3 to 9, 2013 and presented the following work: **Stochastic nucleation in biology**

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We hereby certify that, **Max Oliveira de Souza**, **Universidade Federal Fluminense**, participated in the workshop on mathematical methods and modeling of biophysical phenomena, held at Cabo Frio – Rio de Janeiro, from March 3 to 9, 2013 and presented the following work: **Multiscale tales in epidemiology**

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We hereby certify that, **Nico Stollenwerk, Universidade de Lisboa**, participated in the workshop on mathematical methods and modeling of biophysical phenomena, held at Cabo Frio – Rio de Janeiro, from March 3 to 9, 2013 and presented the following work:
Modelling and model evaluation on empirical data in epidemiology: dynamic noise, chaos and predictability

Cabo Frio, March 9, 2013.



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We hereby certify that, **Nicolas Meunier**, **Université Paris Descartes**, participated in the workshop on mathematical methods and modeling of biophysical phenomena, held at Cabo Frio – Rio de Janeiro, from March 3 to 9, 2013 and presented the following work:
Diffusion with local activation

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We hereby certify that, **Nicolas Vauchelet**, **Université Paris VI**, participated in the workshop on mathematical methods and modeling of biophysical phenomena, held at Cabo Frio – Rio de Janeiro, from March 3 to 9, 2013 and presented the following work:
Bacteria motion by chemotaxis : kinetic and macroscopic limits

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We hereby certify that, **Pablo Amster**, **Universidad de Buenos Aires**, participated in the workshop on mathematical methods and modeling of biophysical phenomena, held at Cabo Frio – Rio de Janeiro, from March 3 to 9, 2013 and presented the following work:
Existence of periodic solutions in some population dynamics models

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We hereby certify that, **Samuli Siltanen**, **Helsinki University**, participated in the workshop on mathematical methods and modeling of biophysical phenomena, held at Cabo Frio – Rio de Janeiro, from March 3 to 9, 2013 and presented the following work:
Electrical impedance tomography based on nonlinear Fourier transform

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We hereby certify that, **Sébastien Benzekry**, **Institut National de Recherche en Informatique et en Automatique**, participated in the workshop on mathematical methods and modeling of biophysical phenomena, held at Cabo Frio – Rio de Janeiro, from March 3 to 9, 2013 and presented the following work: **Mathematical modeling of systemic inhibition of angiogenesis and tumor-tumor interactions in metastatic cancers**

Cabo Frio, March 9, 2013.



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We hereby certify that, **Sepideh Mirrahimi**, **CNRS**, participated in the workshop on mathematical methods and modeling of biophysical phenomena, held at Cabo Frio – Rio de Janeiro, from March 3 to 9, 2013 and presented the following work: **Spatial sorting and evolution in a structured population model**

Cabo Frio, March 9, 2013.



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We hereby certify that, **Stefanella Boatto**, **Universidade Federal do Rio de Janeiro**, participated in the workshop on mathematical methods and modeling of biophysical phenomena, held at Cabo Frio – Rio de Janeiro, from March 3 to 9, 2013 and presented the following work: **SIRNetwork : a Toy Model for Epidemics Dynamics.Homogeneous versus Heterogeneous Network Structure**

Cabo Frio, March 9, 2013.



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We hereby certify that, **Uri Ascher, Univ. of British Columbia**, participated in the workshop on mathematical methods and modeling of biophysical phenomena, held at Cabo Frio – Rio de Janeiro, from March 3 to 9, 2013 and presented the following work:
Stochastic algorithms for inverse problems involving PDEs and many measurements

Cabo Frio, March 9, 2013.



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