SCIENCE*SPRING*DAY

FACULDADE DE CIÊNCIAS E TECNOLOGIA
UNIVERSIDADE NOVA DE LISBOA

CMA Centro de Matemática e Aplicações

People

We are

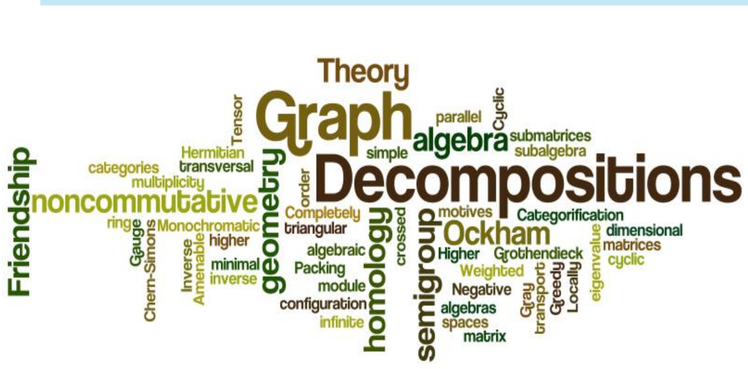
Algebra
8 Members / 1 PhD student / 1 Ciência 2008 / 1 FCT Researcher

Differential Equations & Numerical Analysis
10 Members / 3 PhD students / 1 Post doc
1 FCT Researcher

Operational Research
8 members / 1 PhD student

Statistics & Risk Management
31 Members / 8 PhD students / 1 Ciência 2008

Scientific Areas

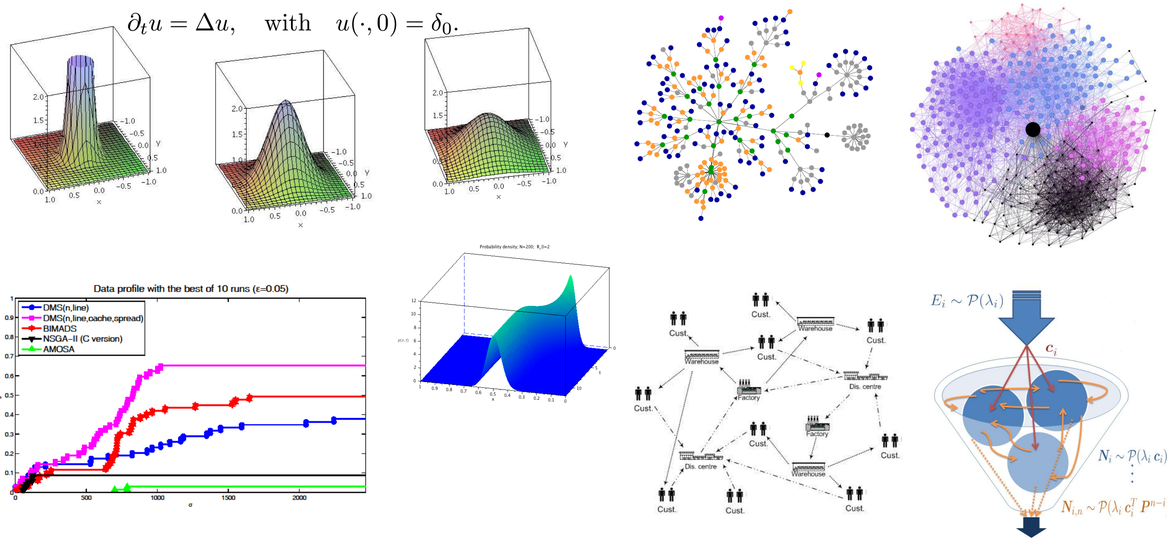


Technologies / Facilities

Having problems?..... We offer you

the ***Mathematics*** of

Numerical Analysis
Continuum Mechanics
Composite Materials
Evolutionary Biology and Epidemiology
Game Theory
Optimization & Algorithm design
Combinatorics
Statistics & Risk Management
etc



Projects Running

PTDC/MAT/113207/2009
Title: ***H-decompositions of graphs: two new problems***
(2011-2014)

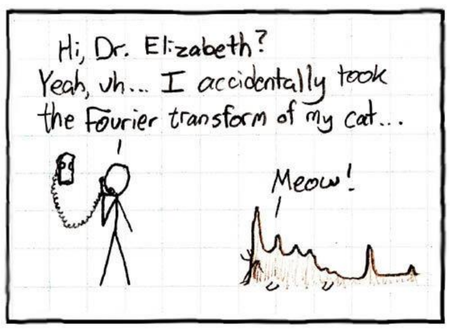
EXPL/MAT-CAL/0794/2013
Title: ***Game theory and epidemiology***
(2014-2015)

EXPL/MAT-CAL/0840/2013
Title: ***Variational problems in variable exponent Sobolev spaces***
(2014-2015)

PTDC/MAT-STA/0568/2012
Title: ***Robust methods in statistical genetics***
(2013-2015)

FONDECYT-Chilean NSF
Title: ***Constrained Inference Problems in Extreme Value Modeling***
(2012-2015)

PTDC/AGR-PRO/2335/2012
Title: ***STrategies to Analyze and To detect INconsistent Genotypic responses to ENvironmental factors***
(2013-2015)



Selected Papers

• B. Gohla and **J. Faria Martins** (2013), Pointed homotopy and pointed lax homotopy of 2-crossed module maps, **Advances in Mathematics**, 248 (25), 986-1049 [Impact factor = 1.373].

• **H. Liu**, A. Mestre and **T. Sousa** (2013), Rainbow vertex k-connection in graphs, **Discrete Applied Mathematics**, 161 (16-17), 2549-2555 [Impact factor = 0.718].

• **G. Tabuada** (2013), Chow motives versus noncommutative motives, **Journal of Noncommutative Geometry**, 7 (3), 767-786 [Impact factor = 0.878].

• **A. M. Ribeiro** and E. Zappale (2013), Relaxation of certain integral functionals depending on strain and chemical composition, **Chinese Annals of Mathematics**, Series B, 34 (4), 491-514 [Impact factor = 0.504].

• **F. A. C. C. Chalub** and M. O. Souza (2014), The frequency-dependent Wright-Fisher model: diffusive and non-diffusive approximations, **Journal of Mathematical Biology**, 68, 1089-1133 [Impact factor = 2.366].

• **R. Ferreira** and D. Gomes (2014), On the convergence of finite state mean-field games through Gamma-convergence, **Journal of Mathematical Analysis and Applications**, 418, 211-230 [Impact factor = 1.050].

• **I. Correia**, S. Nickel and F. Saldanha da Gama (2014), Multi-product capacitated single-allocation hub location problems: formulations and inequalities, **Networks & Spatial Economics**, 14 (1), 1-25 [Impact factor = 1.226].

• T. P. R. Ramos, **M. I. Gomes** and A. P. Barbosa-Póvoa (2014), Planning a sustainable reverse logistics system: balancing costs with environmental and social concerns, **OMEGA**, 48, 60-74 [Impact factor = 3.024].

• B. C. Arnold, **C. A. Coelho** and **F. J. Marques** (2013), The distribution of the product of powers of independent uniform random variables - A simple but useful tool to address and better understand the structure of some distributions, **Journal of Multivariate Analysis**, 113, 19-36 [Impact factor = 1.063].

• **J. L. da Silva** and **J. T. Mexia** (2013), Strong consistency of least squares estimates with i.i.d. errors with mean values not necessarily defined, **Statistics**, 47 (4), 707-714 [Impact factor = 1.258].