

Projets choisis par les étudiants de GMM5, option MMS :

- On the role of martingales in the Black-Scholes model (IMT)
- Performance analysis of information retrieval systems (IMT/IRIT)
- Inference of population history from individual whole genome sequences (IMT)
- Portfolio Risk analysis using Greeks (IMT)
- Statistical analysis and simulation of CAC40's stock prices(IMT)
- Analysis of the performance of several variants of the Monte Carlo method for conformational sampling of proteins (LAAS)
- Sensitivity Analysis (IMT)
- Statistical learning for the identification of bacteria causes of pneumonia (IMT)
- Statistical methods for cloud cover prediction (Météo France/IMT)
- Non-Life Insurance Mathematics: Poisson Process and Ruin Theory (IMT)
- Stochastic Approximation and Recursive Algorithms for Quantiles Estimation (IMT)

Projets choisis par les étudiants de GMM5, option MMN :

- Implementation of a second order transmission condition (Onera)
- On a New Prismatic Finite Element of Higher Order for the modeling of Shallow Glacier Dynamics (IMT)
- Automatic sectorization of airspace (Onera)
- Crack propagation using the eXtended Finite Element Method (IMT/ Institut Clement Ader)
- Modelling and non linear control of an automated Wind Kite(Onera)
- Symplectic schemes for Hamiltonian ODEs and application to celestial mechanics (IMT)
- Estimation of mechanical parameters of spermatozoons flagellar beat (IMFT)
- A macroscopic model to study the effect of packing density on filtration performances in hollow fiber modules: Test and validation (LISBP)