



IMAGE by Davide Buti

The Financial Mathematics Computation Cluster (FMC<sup>2</sup>) will create a leading centre of financial research which will underpin the future development of, and employment growth in, the international financial services sector in Ireland.

#### ABOUT FMC<sup>2</sup>

Launched in October 2009 with funding of €4.1 million, FMC<sup>2</sup> is part of the Science Foundation Ireland Strategic Research Cluster (SRC) programme. FMC<sup>2</sup> brings together complementary expertise in financial mathematics, financial economics and computer science to create a multi-disciplinary research programme in asset and risk management.

#### FUNDING

Launched on 14 October 2009 with funding of €4.1 million, FMC<sup>2</sup> is part of the Science Foundation Ireland Strategic Research Cluster (SRC) programme.

#### KEY AREAS OF RESEARCH

There are two complementary strands to the research activities of the cluster. The first covers such issues as optimal asset allocation, risk management of the resulting investment portfolios, performance measurement of fund managers, algorithmic trading and efficient execution dealing. The cluster will also develop new software tools for these tasks.

The second stream of research focuses on increasing our understanding of risk in financial and other investment markets (including property) and the development of better metrics and software tools to manage this risk. This stream will also examine pension risk in order to develop better methods to manage long term pension investment risk.

The academic Principal Investigators involved in FMC<sup>2</sup> are Professor Anthony Brabazon, Professor Gregory Connor, Professor John Cotter, Dr David Edelman, Professor Paolo Guasoni and Dr Michael O'Neill.

#### COLLABORATION

The Financial Mathematics Computation Cluster (FMC<sup>2</sup>) is a collaboration between University College Dublin, Dublin City University, NUI Maynooth and industry partners.