



Seminario de Modelización, Simulación y Matemática Industrial

The ECMI Educational Programme Mathematics in Industry

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Mathematics, as the language of the sciences, has always played an important role in technology, and now is applied also to a variety of problems in commerce and the environment.

European industry is increasingly becoming dependent on high technology and the need for mathematical expertise in both research and development can only grow.

More and more companies recognise that mathematical/computer simulations may replace experiments in their product design to give both reduced costs and flexibility.

These new demands on mathematics have stimulated academic interest in Industrial Mathematics and many mathematical groups world-wide are committed to interaction with industry as part of their research activities.

In 1986, ten of these groups in Europe founded ECMI with the intention of offering their collective knowledge and expertise to European Industry. No single European country is likely to have sufficient expertise of mathematical knowledge to cover all possible applications of interest to industry, whereas ECMI can provide a comprehensive coverage of mathematical skills and their diverse applications.

The ECMI Master Programme on Mathematics in Industry aims at educating industrial mathematicians to meet the growing demand for such experts.

In modern industry, mathematical methods play an increasingly important role in research and development, production, distribution and management. These methods come not only from classical applied mathematics (mathematical physics, numerical mathematics, probability theory and statistics), but also

involve e.g. operations research, control theory, signal processing and cryptography. Furthermore, mathematicians are more and more involved in the formulation, analysis and evaluation of mathematical models.

Teaching centres in various European countries are providing various educational activities for this need, in addition to organising a two-year educational programme on Mathematics for Industry designed to provide new recruits for industry.

Fechas: 13 de Noviembre de 2006.

Hora: 15:00.

Lugar: Aula 2.1.D.04. Universidad Carlos III de Madrid (Campus de Leganés)
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