



Report of the Workshop CTA-IMUS-Math-in:

Mathematics-Industry technology transfer

IMUS (Sevilla), December 11 2015

Mathematics technology provides advanced solutions to diverse problems encountered in companies in the development of their productive activity. Capacities range from designing production processes to optimize costs to designing energy efficient buildings, through risk analysis in financial investments, to name some of their applications.

This workshop raised to promote awareness of the capabilities of mathematical technology by companies participating in the Technological Corporation of Andalusia (CTA). Four case studies of companies that have collaborated with the participating research groups (RG) were presented:

- Identification of models in chemical reaction processes. Repsol and FQM329 RG.
- Simulation of Tsunamis. Oceanographic Center of Malaga and FQM216 RG.
- Optimization of a delivery network. Ghenova Engineering and FQM331 RG.
- Predictive mathematical models of criminal risk. National Police Corps and Statistics & Operative Research Department of Granada University.

Also these and others research groups in Andalusia expounded their capacities in a broad framework, which pose design and production processes that would apply, generating significant improvements that result in cost savings and improved environmental impact.

The activity success was enhanced with 58 participants among mathematicians researchers and industry attendees, establishing new contacts in the Andalucía area pursuing a common goal: the efficient resolution of technical problems through the improvement of production processes by mathematical techniques. The Math-in Network follows and facilitates these collaborations, keeping track of them.

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