



Wednesday July 17, declared Industry Day in Valencia

## **Experts from large companies will reveal the mathematical secret behind their success in ICIAM2019**

- Senior executives from Siemens, Électricité de France, National Bank of Canada, Fujitsu, Banco Santander and the National Institute of Standards and Technology of the United States, among other firms, will be present.
- Participants will explain how they are changing their businesses through the use of technologies such as digital twins, simulation models, machine-learning and blockchains.
- ICIAM, which is held every four years in a venue which is competitively chosen by the international mathematical community, is the world's largest congress on applied mathematics. 4,000 mathematicians from around the world will participate in ICIAM2019.

**Valencia, June 28, 2019.**- Digital twins are the new blockchain, which in its day, was the new Big Data. Innovation coins new terms, which at the current rate of technological development, reign for only a short time. However, they all have something in common: their deeply rooted mathematical soul. The 2019 International Congress on Industrial and Applied Mathematics (ICIAM) will bring together from July 15-19 more than 4,000 mathematicians in Valencia. It will also include an Industry Day in which experts from large companies from various sectors; banking, computing, materials, automotive, energy, etc- will showcase the mathematical tools that add value to their business.

The ICIAM is the largest world-congress on applied mathematics. It is celebrated every four years in a venue competitively chosen by the mathematical community. In the 2019 edition, speakers

selected by an international scientific committee shall present mathematical developments which are being used to promote medicine, energy efficiency, the search for new materials, safety, innovation in transport and further on.

This year, as a novelty in the ICIAM, a whole day of the program will be dedicated to the transference of mathematical technology in the industry in order to “show the great innovative potential” of mathematical tools such as statistics, big data and the techniques of modeling, simulation and optimization for the industrial sector, explain the organizers.

The speakers will present their success stories of their companies, many of them based on the application of artificial intelligence or advances in modeling and big data techniques. Ferrosolar, for example, will explain how it relies on mathematics to obtain higher purity silicon; Banco Santander will discuss the applications of data analysis in banking; and the Reganosa company will present a tool, developed by Spanish researchers, which improves the management of natural gas networks.

The rest of the participating companies are: Fujitsu; Bosch; the National Bank of Canada; Siemens; EDF; Gore; Microflown Technologies; EDF; Nors; and NEC. There are many research centers which collaborate very closely with the industry, such as the National Laboratory of Los Alamos (USA) and the National Institute of Standards and Technology (NIST), also from the United States.

Industry Day will take place on Wednesday, July 17, at the Blasco Ibáñez Campus of the University of Valencia. Its organization has been possible thanks to the collaboration of different national and international organizations which promote the transfer of mathematical knowledge.

**For more information:**

<https://iciam2019.com/index.php/scientific-program/industry-day>

<https://iciam2019.org/>

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