

Why Mathematics is changing the world

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Mathematics has always been key to help understanding the world in which we live. But it is becoming more and more one of the key technologies to change and improve it, and to foster innovation. Mathematics is behind most of the important recent technological developments. This is due to the increasing complexity of the processes that need to be described and understood. The use of sophisticated mathematics together with advanced algorithms lead to efficient and robust methods to solve problems that would be out or reach otherwise. This lecture will be devoted to the presentation of examples showing the strength of the mathematical technologies behind this immense success.