

# International Review of Mechanical Engineering (IREME)

## Special Issue on Explorations in Mechanical Engineering and Education

A modern view on Education shows the growing interest of young people in Mechanical Engineering specialties. That is because mechanical engineers focus on creating technologies to meet human needs. Virtually every product or service in modern life has probably been somehow affected by a mechanical engineer. Mechanical Engineering includes addressing today's challenges and creating future solutions in energy, transport, healthcare, space exploration, climate change and more. Mechanical Engineering combines knowledge and analytical instruments to translate ideas into reality.

This Special Issue “*Explorations in Mechanical Engineering and Education*” presents a collection of 12 papers selected from over 80 scientific papers with unique contributions created by research groups from various universities and research institutes of Russia. All the papers are written in 2018-2019 years.

The main goal of this Special Issue is to give readers, especially young ones, an overview of the latest and most original achievements dedicated to research in various fields of Mechanical Engineering. The papers address to the problems of tribology, laser and mechatronic systems, calculations of the power load in self-braking gears and loads applied to engineering structures, self-regulating gears for vehicles, new methods for producing shock acceleration, processing by cutting of titanium alloys and etc.

The authors thank the publisher and all members of the Editorial Board of IREME Journal and, in particular, Mrs. Angela Tafuro, who provided tremendous support in the publication of this Special Issue “*Explorations in Mechanical Engineering and Education*”.

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