

Preface

The 5th International Conference on Industrial Engineering was held on 25-29 of March 2019, Russian Federation. The conference organizers were in Sochi, as a main conference venue and South Ural State University (national research university), Chelyabinsk; Platov South-Russian State Polytechnic University, Novocherkassk, Rostov region; Moscow Polytechnic University and Volgograd State Technical University as the additional conference venues.

The conference was carried out under financial support of the South Ural State University (national research university).

The conference was really large-scaled and international. The international program committee has selected more than 500 reports. The conferees represented 63 Russian cities from the western and central parts to the Far East regions. International participants represented such countries as China, Germany, Kazakhstan, Kyrgyzstan, Portugal, Saudi Arabia, Tajikistan, Ukraine, USA, Uzbekistan.

The conference participants submitted papers reflecting recent advances in the field of Industrial Engineering, in Russian and English. The conference was organized in 13 sections, including:

Part 1. Mechanical Engineering (Machinery and Mechanism Design; Dynamics of Machines and Working Processes; Friction, Wear, and Lubrication in Machines; Design and Manufacturing Engineering of Industrial Facilities; Transport and Technological Machines; Mechanical Treatment of Materials; Industrial Hydraulic Systems; Green Manufacturing);

Part 2. Materials Engineering and Technologies for Production and Processing (Polymers, Composites and Ceramics; Steels and Alloys, Metallurgical and Metalworking Technologies; Chemical and Hydrometallurgical Technologies; Surface Engineering and Coatings; Processing and Controlling Technologies);

The international program committee has selected 200 papers for publishing in the Solid State Phenomena (Trans Tech Publications Ltd.).

The organizing committee would like to express our sincere appreciation to everybody who has contributed to the conference. Heartfelt thanks are due to authors, reviewers, participants and to all the team of organizers for their support and enthusiasm which granted success to the conference.

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Prof. Andrey A. Radionov.

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