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*Editorial*

# Special Issue of the Manufacturing Engineering Society 2019 (SIMES-2019)

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**Abstract:** The Special Issue of the Manufacturing Engineering Society 2019 (SIMES-2019) has been launched as a joint issue of the journals "Applied Sciences" and "Materials". The 10 contributions published in this Special Issue of Applied Sciences present cutting-edge advances in production planning, sustainability, metrology, cultural heritage, and materials processing with experimental and numerical results. It is worth mentioning how the topic "production planning" has attracted a great number of contributions in this journal, due to their applicative approach.

**Keywords:** additive manufacturing; 3D printing; forming; machining; metrology; production planning; technological and industrial heritage; industry 4.0; green manufacturing

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After the complete success of the first edition [1] with 48 contributions on emerging methods and technologies, the Special Issue of the Manufacturing Engineering Society 2019 (SIMES-2019) [2] was launched as a joint issue of the journals "Applied Sciences" and "Materials".

Once again, this Special Issue was promoted by the Manufacturing Engineering Society (MES) [3] of Spain, with the aim of covering the wide range of research lines developed by the members and collaborators of the MES and other researchers within the field of Manufacturing Engineering.

In this Special Issue of the journal Applied Sciences, cutting-edge advances in production planning, sustainability, metrology, cultural heritage, and materials processing with experimental and numerical results have been published.

Concretely, the contributions have been mainly focused on the topics: additive manufacturing and 3D printing, with a contribution presenting the use of 3D printing with training purposes in the field of primary care [4]; advances and innovations in manufacturing processes, more specifically in the deep drawing of Inconel 718 applying different thermal treatments [5]; sustainable and green manufacturing, considering dry machining conditions in the turning of aluminum alloys used in aeronautical industry [6]; manufacturing of new materials such as a carbon fiber reinforced plastic (CFRP) laminates by drilling, using multiple sensor monitoring [7]; metrology and quality in manufacturing through the development of a bidimensional system for nanopositioning with uncertainty assessment [8]; manufacturing engineering and society, with a work presenting the use of hyperspectral imaging techniques with application in the conservation of cultural heritage [9]. Finally, it is worth mentioning how the topic "production planning" has attracted a great number of contributions in this journal due to their applicative approach, presenting the latest advances in methods with applications in the metallurgical [10], automotive [11], and military [12] industries, and involving innovative techniques such as machine learning and data mining [13].

After only three months since the publication of the first work [9], all the papers present prominent activity in their "article metrics", being remarkable how some of the papers belonging to this Special Issue have more than five hundred abstract and full-text views, which is clear evidence of the interest in

all of these topics in readers of the journal Applied Sciences, in general, and scientists and professionals from the industry in particular.

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