

Special session

Paper Deadline: 15 May 2020

Recent Advances in Sustainable Manufacturing

Organised:

Prof. Lyes Benyoucef, Aix-Marseille University, Marseille, France, lyes.benyoucef@lis-lab.fr

Dr. Hichem Haddou-Benderbal, IMT Atlantique, Nantes, France, hichem.haddou-ben-derbal@imt-atlantique.fr

Prof. Nicolas Perry, Arts et Métiers, Bordeaux, France, Nicolas.PERRY@ensam.eu

Abstract:

Nowadays, with a highly competitive market, the manufacturing system of a company has to be, simultaneously, cost-effective, time-efficient and environmentally harmless — achieve sustainability —. Moreover, sustainable future is characterized by a continuously improved quality of human life in terms of satisfaction and prosperity, associated with sanitation, education, job satisfaction, etc. It is quickly becoming a need while the worldwide, local socio-economic and statistical environments dictate constraints for sustainable development. In this case, since sustainability is the evolution that joins the requirements of the present without compromising the ability of future generations to join their own needs, three pillars are necessary respectively, economic, environmental, and social—also known informally as profits, planet, and people. Following the multiple new environmental legislations, the increase of electricity tariffs and fuel prices, reducing carbon footprint and energy consumption are considered as high priority.

Adapting sustainability in manufacturing requires a comprehensive look covering not just the product but also manufacturing processes involved in its fabrication. This special session will provide a forum to investigate, exchange novel ideas and disseminate knowledge covering the broad area of sustainable manufacturing in nowadays industry. Experts and professionals from academia, industry, and the public sector are invited to submit papers on their recent research and professional experiences on the subject. High quality papers reporting on relevant reviews of existing literature, theoretical studies, case studies, inter-disciplinary research are all very welcome.

List of topics: All problems and approaches dedicated to sustainable manufacturing

Keywords: Sustainability; Manufacturing, Logistics, Optimisation, Simulation, Multicriteria.