



SUSTAINABLE SCHEDULING

Currently, the systems of production of goods and services are faced with both production cost optimization and scarcity of resources, whether material or energy, thus opening the will to produce in a more sustainable and greener way in a circular economy.

Scheduling plays a central role impacted by the new involved production paradigms which are translated in different ways and notably according to the 3 following complementary axes:

- reducing production waste,
- managing and limiting the consumption of material and energy resources, especially those that are the most scarce and expensive,
- using new energy sources, especially renewable ones.

Questions and topics of interest to this session include but are not limited to:

- consideration of energy constraints
- sustainable scheduling
- green scheduling in Industry 4.0
- minimization of waste
- minimization the carbon emissions
- multi-objective scheduling problems
- exact and approximate models and methods for sustainable scheduling
- industrial application
- ...

This special session is proposed by the French Research Group ORIGIN.

Organizers :

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- Associate Prof. HDR, Marie-Ange Manier (UTBM, France)
- Prof. David Lemoine (IMT Atlantique, France)