

## Special Issue

# Large-Scale Production Systems: Sustainable Manufacturing and Service

### Message from the Guest Editors

Large-scale manufacturing facilities consume many environmental, energetic, and economic resources due to wide spatial distribution, division of labor, extensive use of machinery, and multitude of components.

Consequently, it is imperative to develop new strategies for enhancing the efficiency of manufacturing activities and services within large-scale production systems (LSPSs), mitigating the negative impact of LSPSs on global sustainability. Examples of LSPSs include water distribution systems, large automotive manufacturing plants, large dairy production systems, textile industries, iron and steel industries, oil and gas systems, food processing systems, etc. Sustainable development within LSPSs pose the need to investigate new progress and trends to increase the sustainability of LSPSs.

Therefore, this Special Issue aims to present novel ideas and experimental results in the domain of the sustainable development of manufacturing and services within LSPSs, including both theoretical and practical investigations. Additionally, ideas conceived for improving the sustainability of lower-scale industrial plants, extensible to LSPSs, are appreciated.

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### Guest Editors

Dr. Simone Arena

Dr. Alessandra Cantini

Dr. Filippo De Carlo

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### Deadline for manuscript submissions

30 September 2025



## Sustainability

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