

Special Issue

The Role of Digital Twins in Bioprocessing

Message from the Guest Editors

The process industry, especially the bio-manufacturing industry, is currently participating in the latest industrial revolution, commonly known as Industry 4.0. For a successful outcome in this process, the physical-to-digital-to-physical information loop should be carefully developed. One way to accomplish this is with the help of the implementation of digital twins (DTs), which are basically virtual copies of the processes under study. However, even though the topic is very popular and broadly discussed, a thorough understanding of the needs and challenges of the bio-manufacturing industry is necessary when dealing with this digitalized paradigm.

This Special Issue titled “The Role of Digital Twins in Bioprocessing” welcomes original research papers and comprehensive reviews covering the advancements and applications of digital twins in the bioprocessing context.

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