



Nucleic-Acid-Based Intelligent Systems

Guest Editor:

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Deadline for manuscript
submissions:

closed (31 January 2023)

Message from the Guest Editor

Dear Colleagues,

Artificially intelligent molecular systems play an important role in numerous applications. Nucleic acids are potential materials for building artificially intelligent molecular systems because of their nanoscale size, ease of chemical synthesis, predictable base-pairing behavior, and the ability to regulate biological macromolecules in a significant way. In recent decades, many nucleic-acid-based intelligent systems have been constructed, including Boolean logic gates, molecular circuits, or artificial neural networks. They have been used to address a variety of challenges, including biomedical applications. For example, these logic systems can act as processors to precisely control nanodevices in vitro, monitor biochemical reactions in situ, and intelligently regulate gene expression in vivo. Accordingly, this Special Issue seeks to showcase research papers and review articles that focus on the study of artificial intelligence systems based on nucleic acid molecules and their applications in different fields.

We look forward to receiving your submissions!





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Message from the Editor-in-Chief

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