

IEEE ICUS 2021

Invited Session Summary

Title of Session

Micro and Nano Autonomous System

Name, Salutation, Affiliation and Email of Organizers

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Details of Session (including aim and scope)

Micro and nano autonomous system is one of the most challenging frontier research fields in artificial intelligence. This section will focus on the application of micro and nano autonomous system in life science and medicine. I will invite the experts in the fields of electronic engineering, medicine, materials, physics and chemistry to explore in depth the key scientific questions and development trends faced by micro and nano autonomous system. It will encourage the exchange of different academic views, explore the relevant key technologies, and accelerate the release of the innovative potential of interdisciplinary systems in micro and nano autonomous system.

In order to meet the requirements in life science and medicine, this section will discuss five aspects of micro and nano autonomous system including fabrication of micro and nanoscale devices, biomimic micro and nanoscale materials, visual imaging systems, intelligent control and algorithms, intelligent medical applications.