

Special Session on
Innovations in Drug Delivery using Artificial Intelligence
in conjunction with
14th International Conference on Innovations in Bio-Inspired
Computing and Applications (IBICA'23)
December 14-15, 2023
Website: <http://www.mirlabs.org/ibica23>
Hybrid Mode – Online & Offline
Onsite Venues: <http://mirlabs.org/ibica23/venue2.php>

Objectives and Scope

The objective of this special session is to explore the dynamic synergy between AI and ML and their transformative impact on the field of drug delivery. The main emphasis is to highlight recent breakthroughs where AI and ML are being integrated into drug delivery strategies, leading to enhanced precision, efficiency, and patient-centered outcomes. This session seeks to contribute to the enhancement of drug delivery systems by reshaping drug delivery paradigms, optimizing formulations, personalizing treatments, and revolutionizing patient care through the innovative applications of computational intelligence approaches. Through illuminating case studies and visionary discussions, participants will gain invaluable insights into how AI and ML are unlocking the potential for precise, efficient, and patient-centric therapeutic interventions.

Subtopics

The topics include, but are not limited to:

- Optimizing drug formulation and delivery systems
- Personalized drug delivery
- Smart targeting and precision drug delivery
- Predictive Modeling for Pharmacokinetics and Pharmacodynamics
- Real-time monitoring and adaptive drug delivery strategies.
- Nanomedicine and Drug Carriers
- Data-driven drug discovery and development
- Safety assessment and risk prediction
- Ethical considerations and regulatory challenges

Paper publications

- Proceedings will be published in Lecture Notes in Networks and Systems, Springer (<https://www.springer.com/series/15179>)
- Indexed by SCOPUS, INSPEC, WTI Frankfurt eG, zbMATH, SCImago

- Paper maximum length is 10 pages
- Papers must be formatted according to Springer format (Latex/word) available at: <https://www.springer.com/de/authors-editors/book-authors-editors/manuscript-preparation/5636#c3324>
- Submission Link: <https://cmt3.research.microsoft.com/IBICA2023>

Important Dates

Paper submission due: **September 30, 2023**

Notification of paper acceptance: **October 31, 2023**

Registration and Final manuscript due: **November 10, 2023**

Conference Date: **December 14-15, 2023**

Special Session Chair(s)

- **Dr. Himali Horo**, Thapar Institute of Engineering and Technology, Patiala, India
- **Dr. Anu Bajaj**, Thapar Institute of Engineering and Technology, Patiala, India

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