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UNIVERSIDADE DE MACAU
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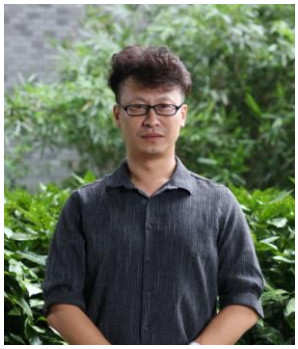
應用物理及材料工程研究院
INSTITUTO DE FÍSICA APLICADA E ENGENHARIA DE MATERIAIS
INSTITUTE OF APPLIED PHYSICS AND MATERIALS ENGINEERING

IAPME Seminar

The Combination and Development Direction of Mainland Medical Device Industry and New Generation Artificial Intelligence Technology



5 December 2025

Dr. Mingxuan SONG
Suzhou Institute of Biomedical Engineering and Technology

Venue: N23-4018
Time: 11:20 - 12:00
Hosted by: Prof. Songnan QU

Abstract

This presentation aims to provide a systematic analysis of the current state, driving forces, challenges, and future strategic development directions of the deep integration between the medical device industry in Mainland China and new-generation artificial intelligence (AI) technology. Propelled by the “Healthy China 2030” strategy and the national priority given to AI development, the “AI + Medical Device” sector in the mainland is experiencing unprecedented opportunities and has achieved remarkable progress across multiple fronts. Firstly, the presentation will outline the macro context of the medical device industry‘s development in the mainland. China’s vast healthcare market, continuously increasing R&D investment, and increasingly supportive policy framework provide fertile ground for innovation. The National Medical Products Administration (NMPA) has been optimizing the review and approval process for innovative medical devices, creating a “green channel” for the commercialization of AI-powered medical products. Secondly, the presentation will highlight specific application scenarios and achievements of this integration. The fusion has moved from proof-of-concept to large-scale clinical application.

Biography

Dr. Mingxuan SONG, currently serves as the Secretary-General of the CAS Advanced Medical Device Industry Incubation Alliance. He holds the positions of Chairman and General Manager of Suzhou CAS Medical Device Industry Development Co., Ltd.—the only directly invested medical device incubation company under China Holdings Group of the Chinese Academy of Sciences (CAS)—and concurrently acts as President of the Group Corporation of the Suzhou Institute of Biomedical Engineering and Technology (SIBET), CAS. As a Principal Investigator of a sub-project under the National Key R&D Program of China, Dr. Song has been recognized as a Venture Mentor for Jiangsu Provincial Medical Device Professional Incubators and is a core member of the Suzhou Charming Science and Technology Team. He is also an alumnus of the International Technology Partnership Program (ITPC) at the Georgia Institute of Technology, USA, and a certified China International Technology Transfer Manager. In addition, Dr. Song serves as a Standing Council Member of the Bethune Spirit Research Society’s Laboratory Medicine Branch. Over more than a decade at SIBET, he has held director and supervisory roles in over ten technology spin-off companies, taking concrete responsibility for technology commercialization, product registration and market launch, clinical validation, investment and financing, and market expansion.