

Integrated Solution for TCM-Based Intelligent Elderly Care and Health-Preserving Platform



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Abstract

Smart elderly care technology is evolving from decentralized development to an integrated architecture characterized by the collaborative integration of "equipment–data– platform–service". This study focuses on the core technology system of the integrated TCM-based intelligent elderly care and nursing platform solution, elucidates the key technical logic underpinning the fusion of "TCM theory–engineering technology– elderly care service", explores how the multi-modal data fusion mechanism constructs a full-chain technical closed loop of "physio-logical monitoring–intelligent nursing– rehabilitation evaluation–service scheduling", and clarifies the breakthroughs achieved by this solution in the engineering transformation of TCM theory and in enhancing the precision of elderly care services.

Biography

Prof. Xinzui WANG, Ph.D., Researcher and Doctoral Supervisor, is Director of the Institute of Biomedical Engineering Technology and Member of the Party Committee at Jihua Laboratory. He has received multiple honors including selection into the Youth Innovation Promotion Association of the Chinese Academy of Sciences (2015), Foshan City's "Most Beautiful Science and Technology Worker" (2023), and the Second Prize of the Guangdong Provincial Science and Technology Progress Award (2022). He holds several leadership positions in provincial and municipal medical associations related to medical AI, medical-engineering integration, translational medicine, and technology evaluation. In the past five years, he has led over 10 national and provincial-level projects, with extensive engineering experience in biomedical information/image processing and instrument development, focusing on technological advancement and industrialization in these fields.