

Research on Key Technologies for Autonomous Take-off and Landing of Large Aircraft

Professor Chuanjian Liu 刘传健
Civil Aviation Flight University of China

Abstract

This report focuses on the core research regarding autonomous take-off and landing of large aircraft. It analyzes the current research status and practical demands of relevant supporting technologies. It also explores technical difficulties and feasible solutions in this field, and discusses the development directions and practical application prospects of these key technologies.



Chuanjian Liu is the Chief Flight Instructor of the Civil Aviation Flight University of China (CAFUC), and a deputy to the 14th National People's Congress. He is an expert in civil aviation flight safety and pilot training. Widely known as the "Hero Captain of China," he successfully commanded the emergency landing of Sichuan Airlines Flight 3U8633 in 2018 under extremely hazardous conditions, ensuring the safe evacuation of all 128 passengers and crew. He has been dedicated to advancing flight safety, emergency response, and pilot education, making significant contributions to the development of China's civil aviation industry. He has received numerous national honors, including the title of Hero Captain of Chinese Civil Aviation, the National May 1 Labor Medal, National Outstanding Communist Party Member, and The Most Beautiful Veteran.