



Registration Form for WFC Scientific Committee

Personal Info.

Name: YU Huan

Title: Professor

Affiliation: Nanchang Hangkong University



Research Interest

- (1) Theory and Technology of Counter-gravity Precision Processing for Large and Complicated Thin-walled Light Alloy Castings
- (2) Fabrication and Theory of High Performance Aluminum/Magnesium Matrix Composites

Main Achievements(<200 words)

For 40 years, Yu has devoted himself to the research of precision forming for liquid metal. He established the national defense key discipline laboratory of light alloy processing science and technology in 2008. As the leader of more than 10 national scientific research projects, he has published more than 100 academic papers, authorized several patents, and trained more than 50 doctoral and postgraduate students. The self-developed vacuum counter-pressure casting equipment has been applied in many enterprises, which has solved many technological problems of processing large and complicated thin-walled aerial castings. Yu also leads a systematic research of near-net forming technology for three-dimensional woven carbon fiber reinforced aluminum matrix composites and the tensile properties of obtained composites are more than 800MPa at room temperature and more than 600MPa at 350°C. Moreover, an aero-engine fan blade simulator of aluminum matrix composites has been fabricated successfully, which won the second prize of invention and achievement of China Aeronautical Society.