



## **Registration Form for WFC Youth Working Committee**

### **Personal Info.**

Name: Donghong Wang

Title: Associate Researcher

Affiliation: Shanghai Jiaotong University



### **Research Interest**

Intelligent Thermal Manufacturing and Digital Twins

Precision forming of high-performance metal materials

### **Main Achievements (<200 words)**

Wang Donghong is mainly engaged in research on material genetic engineering and intelligent thermal manufacturing. He has revealed the transmission law and deformation mechanism of dimensional errors in complex casting systems, invented the full process node displacement method for dimensional accuracy control technology, proposed a process design concept based on integrated computing and data-driven, and solved the problems of metallurgical quality and dimensional accuracy control in high-end casting precision forming. He has presided over 20 projects, including National Natural Science Foundation Youth Project, National Major Science and Technology Special Project for Aero engine and Gas Turbine, the National Key Research and Development Program, the Key Laboratory Fund for Equipment Pre research, the Open Fund for State Key Laboratory, the Key Research and Development Program of Zhejiang Province and the Enterprise Horizontal Project. He has published 75 papers, authorized 15 invention patents, obtained 5 software copyrights, participated in the writing of 2 monographs and 3 national standards, and led the development of 20 provincial-level new products.