

Agenda of 19th International Manufacturing Conference (IMCC 2021)


Nov. 17-19, 2021 Location: Shaanxi Guesthouse, Xi'an		
Wednesday, November 17, 2021 (Shaanxi Guesthouse)		
10:00-22:00	Registration	
Thursday, November 18, 2021 (Shaanxi Guesthouse)		
08:00-08:40	Opening Speech: Prof. Dongming Guo	Chair: Prof. Weizheng Yuan
	Opening Speech: Prof. Zhuangde Jiang	
	Opening Speech: Prof. Jinsong Wang	
	Group Photo	
Xianyang Room, Zoom ID: 856 0195 7108 Password: 2021		
08:40-9:30	Plenary Talk I: Prof. Zhuangde Jiang	Chair: Prof. Weizheng Yuan
9:30-10:20	Plenary Talk II: Prof. Kazuto Yamauchi	
10:20-10:30	Tea Break	
10:30-11:20	Plenary Talk III: Prof. Kenneth A. Dowson	Chair: Prof. Fengzhou Fang
11:20-12:10	Plenary Talk IV: Prof. Jianrong Tan	

12:20-14:00	Lunch							
14:00-16:00	Session A	Session B	Session C	Session D	Session E	Session F	Session G	Session H
	Precision Manufacturing and Advanced Testing Technology	The Sino-German Forum on Manufacturing	The 2 nd Young Scientists Forum on Extreme Manufacturing	Forum on Digital Twin	High Performance Manufacturing	Microsystems and Micro & Nano Manufacturing	Intelligent Design for Performance	NSFC Project Report Session
	Session Chair: Prof. Zurong Qiu	Session Chair: Prof. Ning He	Session Chair: Prof. Ming Huang	Session Chair: Prof. Fei Tao	Session Chair: Prof. Rui Yang	Session Chair: Prof. Honglong Chang	Session Chair: Prof. Chao Jiang, Prof. Xueguan Song	Session Chair: Prof. Ming Luo
16:00-16:20	Tea Break							
16:20-18:00	Precision Manufacturing and Advanced Testing Technology	The Sino-German Forum on Manufacturing	The 2 nd Young Scientists Forum on Extreme Manufacturing	Forum on Digital Twin	High Performance Manufacturing	Microsystems and Micro & Nano Manufacturing	Intelligent Design for Performance	NSFC Project Report Session
	Session Chair: Prof. Zurong Qiu	Session Chair: Prof. Ning He	Session Chair: Prof. Ming Huang	Session Chair: Prof. Fei Tao	Session Chair: Prof. Rui Yang	Session Chair: Prof. Honglong Chang	Session Chair: Prof. Chao Jiang, Prof. Xueguan Song	Session Chair: Prof. Ming Luo
18:30-20:30	Conference Banquet							


Friday, November 19, 2021 (Shaanxi Guesthouse)								
Xianyang Room, Zoom ID: 856 0195 7108 Password: 2021								
8:30-9:20	Plenary Talk V: Prof. Jianbin Luo						Chair: Prof. Ning He	
9:20-10:10	Plenary Talk VI: Prof. Duncan McFarlane							
10:10-10:20	Tea Break							
10:20-11:10	Plenary Talk VII: Prof. Honglong Chang						Chair: Prof. Wei Gao	
11:10-12:00	Plenary Talk VIII: Prof. M. Alkan Donmez							
12:00-14:00	Lunch							
14:00-16:00	Session A	Session B	Session C	Session D	Session E	Session F	Session H	
	Precision Manufacturing and Advanced Testing Technology	The Sino-German Forum on Manufacturing	The 2 nd Young Scientists Forum on Extreme Manufacturing	Forum on Digital Twin	High Performance Manufacturing	Microsystems and Micro & Nano Manufacturing	NSFC Project Report Session	
	Session Chair: Prof. Zurong Qiu	Session Chair: Prof. Ning He	Session Chair: Prof. Ming Huang	Session Chair: Prof. Fei Tao	Session Chair: Prof. Rui Yang	Session Chair: Prof. Honglong Chang	Session Chair: Prof. Ming Luo	
16:00-16:20	Tea Break							
16:20-18:00	Precision Manufacturing and Advanced Testing Technology	The Sino-German Forum on Manufacturing	The 2 nd Young Scientists Forum on Extreme Manufacturing	Forum on Digital Twin	High Performance Manufacturing	Microsystems and Micro & Nano Manufacturing	NSFC Project Report Session	
	Session Chair: Prof. Zurong Qiu	Session Chair: Prof. Ning He	Session Chair: Prof. Ming Huang	Session Chair: Prof. Fei Tao	Session Chair: Prof. Rui Yang	Session Chair: Prof. Honglong Chang	Session Chair: Prof. Ming Luo	
18:30-20:30	Dinner							

Parallel Sessions


Oral Sessions A(I): Precision Manufacturing and Advanced Testing Technology

Thursday, Nov.18 14:00-16:00 (UTC +8) Zoom ID: 840 6949 3354 Xianyang Room			
Time	Presentations		Chairs
	Speakers	Titles	
14:00-14:30	Hui Wang, <i>Tsinghua University</i>	Generation Mechanism of Jet Engine Blade Machining Defects and A Practical Minimization Strategy (<i>Invited Talk Online</i>)	 Zurong Qiu <i>Tianjin University</i>
14:30-15:00	Yudong Zhao, <i>Tianjin University</i>	Research and Improvement of Thread Measuring Instrument Based on Thread Function Diameter (<i>Invited Talk Online</i>)	
15:00-15:30	Jinwei Fan, <i>Beijing University of Technology</i>	Universal Error Analysis Method of Nc Machine Tools (<i>Invited Talk Online</i>)	
15:30-16:00	Zurong Qiu, <i>Tianjin University</i>	Research Progress of Group Standard "Manufacturing Readiness Level and Assessment Methods for Measuring Equipment" of Mechanical Engineering Society (<i>Invited Talk Onsite</i>)	
16:00-16:20	Tea Break		


Oral Sessions A(II): Precision Manufacturing and Advanced Testing Technology

Thursday, Nov.18 16:20-18:50 (UTC +8) Zoom ID: 840 6949 3354 Xianyang Room			
Time	Presentations		Chairs
	Speakers	Titles	
16:20-16:50	Jianxiong Chen, <i>Fuzhou University</i>	A New Method for Femtosecond Laser Super Resolution Manufacturing of Large format Coded Micro Polarizer Array <i>(Invited Talk Online)</i>	 Zurong Qiu <i>Tianjin University</i>
16:50-17:20	Guoxue Li, <i>Dalian Guangyang Sci & Tech Group</i>	Base on Configurable Architecture and All-Optical Communication Ethernet for Big Data Technology of Industrial Internet of Things Within Discrete Manufacturing <i>(Invited Talk Online)</i>	
17:20-17:50	Wenchuan Hu, <i>Tianjin University of Technology and Education</i>	Development of Major Manufacturing Equipment in The Field of Measuring Instruments in China <i>(Invited Talk Onsite)</i>	
17:50-18:20	Yonghong Wang, <i>Hefei University of Technology</i>	Full Field Deformation & Defect Detection Based on Digital Speckle Technology <i>(Invited Talk Online)</i>	
18:20-18:50	Mingjun Chen, <i>Harbin institute of Technology</i>	Ultra-Precision Manufacturing Technology for Repairing the Surface Micro-Defects on High-Power Laser Optical Elements <i>(Invited Talk Online)</i>	
18:30-20:30	Conference Banquet		


Oral Sessions A(III): Precision Manufacturing and Advanced Testing Technology

Friday, Nov. 19 14:00-16:00 (UTC +8) Zoom ID: 840 6949 3354 Xianyang Room			
Time	Presentations		Chairs
	Speakers	Titles	
14:00-14:12	JieShi Dong, <i>Northwestern Polytechnical University</i>	A Novel Method to Detect Local Interference in CNC Milling Based on Critical Curvature (<i>Onsite</i>)	 Minchao Cui <i>Northwestern Polytechnical University</i>
14:12-14:24	Jiyin Zhang, <i>Northwestern Polytechnical University</i>	Effect of shot peening parameters, path, and sequence on residual stress of TC17 alloy (<i>Onsite</i>)	
14:24-14:36	Huanbin Lin, <i>Zhejiang University</i>	Optimization of a Smart Tool Holder for Ultraprecision Diamond Cutting (<i>Onsite</i>)	
14:36-14:48	Chi Ma, <i>Chongqing University</i>	Thermal Behavior Closed-Loop Iteration Modeling of Spindle System under Tilting Working Conditions (<i>Onsite</i>)	
14:48-15:00	Xiuqing Hao, <i>Nanjing University of Aeronautics and Astronautics</i>	Engineering Metal Surface Super-Repellence to Liquid with Low Surface Tension (<i>Onsite</i>)	


Friday, Nov. 19 | 14:00-16:00 (UTC +8) Zoom ID: 840 6949 3354 Xianyang Room

Time	Presentations		Chairs
	Speakers	Titles	
15:00-15:12	Huanling Liu, <i>Xidian University</i>	Thermo-Mechanical Performance of a Novel I-Type Microchannel Pin-Fin Hybrid Heat Sink Packaged inside An Electronic Chip (Onsite)	 Minchao Cui <i>Northwestern Polytechnical University</i>
15:12-15:24	Ning Qian, <i>Nanjing University of Aeronautics and Astronautics</i>	Eco-Benign Grinding of Inconel 718 Superalloy By Oscillating Heat Pipe Grinding Wheel (Onsite)	
15:24-15:36	Muhammad Jamil, <i>Nanjing University of Aeronautics and Astronautics</i>	Hybrid Lubri-Cooling in Machining Hard to Cut Materials (Onsite)	
15:36-15:48	Gang Wang, <i>Northwestern Polytechnical University</i>	Digital Twin-Based Framework for Clamping Optimization of Thin-Walled Parts (Onsite)	
15:48-16:00	Mengmeng Xi, <i>Dalian University of Technology</i>	Accurate Solution of Processing Allowance for Complex Curved Surface Based on Delaunay Triangle Optimization (Online)	
16:00-16:20	Tea Break		


Oral Sessions A(IV): Precision Manufacturing and Advanced Testing Technology

Friday, Nov. 19 16:20-18:26 (UTC +8) Zoom ID: 840 6949 3354 Xianyang Room			
Time	Presentations		Chairs
	Speakers	Titles	
16:20-16:50	Han Huang, <i>The University of Queensland</i>	Nanoscale Removal Mechanisms in The Ductile Grinding of Brittle Solids (<i>Invited Talk Online</i>)	 Zhongliang Xie <i>Northwestern Polytechnical University</i>
16:50-17:02	Zhongwei Li, <i>Zhejiang University</i>	A Study on Nanoindentation Characteristics of 4H-SiC Using Diamond Tool (<i>Onsite</i>)	
17:02-17:14	Jie Yan, <i>Nanjing University of Aeronautics and Astronautics</i>	Experimental Study on Cutting force and Surface Roughness in High-Speed Milling of Glass Fiber Reinforced Composites (<i>Onsite</i>)	
17:14-17:26	Wenjian Cao, <i>Nanjing University of Aeronautics and Astronautics</i>	Analysis of The Mechanism to Eliminate Roundness Error of The Revolving Thin-Walled Parts in Electrochemical Machining (<i>Onsite</i>)	
17:26-17:38	Jing Sheng, <i>Xiamen University of Technology</i>	An Evaluation Method of The Wear of Circumferential Cutting Edge for a Cylindrical Vertical Milling-tool Based on Equivalent Plane Wear Zone (<i>Onsite</i>)	


Friday, Nov. 19 | 16:20-18:50 (UTC +8) Zoom ID: 840 6949 3354 Xianyang Room

Time	Presentations		Chairs
	Speakers	Titles	
17:38-17:50	Yanjun Lu, <i>Shenzhen University</i>	Experimental study on dry electro-contact discharge truing of diamond grinding wheel V-tip for dry micro-grinding of cemented carbide	 Zhongliang Xie <i>Northwestern Polytechnical University</i>
17:50-18:02	Cheng Lin, <i>Huaqiao University</i>	Study on Wear Mechanism of Cemented Carbide Tool under Cryogenic Co2 Assisted Minimum Quantity Lubrication Technology (Online)	
18:02-18:14	Ling Liu, <i>China Civil Aviation University</i>	Microstructure and Properties of Nanosecond Laser Microtextured TC4 Functional Surface	
18:14-18:26	Xiaolong Lu, <i>Nanjing University of Aeronautics and Astronautics</i>	Tetherless Manipulation for Micro Particles with Acoustic-Microrobotic Platforms	
18:30-20:30	Dinner		


Oral Sessions B(I): The Sino-German Forum on Manufacturing (SGFM 2021)

Thursday, Nov.18 14:00-16:15 (UTC +8)			Zoom ID: 856 0195 7108	3-6 Room
Time	Presentations		Chairs	
	Speakers	Titles		
14:00-14:10	Opening Speech			
14:10-14:45	Dongyuan Wei, <i>Chinese Academy of Science and Technology for Development</i>	Path Selection and Strategic Thinking of Carbon Peak and Carbon Neutrality in Manufacturing Industry (<i>Invited Talk Online</i>)	Ning He <i>Nanjing University of Aeronautics and Astronautics</i>	
14:45-15:20	Eberhard Abele & Matthias Weigold, <i>Technische Universität Darmstadt</i>	Improving The Efficiency and Sustainability of Production Process for A Carbon Neutral Production (<i>Invited Talk Online</i>)		
15:20-15:55	Chuanzhen Huang, <i>Yanshan University</i>	Research on High Speed, Low Temperature and Clean Cutting Mechanisms and Key Technologies (<i>Invited Talk Online</i>)		
16:00-16:15	Tea Break			


Oral Sessions B(II): The Sino-German Forum on Manufacturing (SGFM 2021)

Thursday, Nov.18 16:15-18:00 (UTC +8) Zoom ID: 856 0195 7108 3-6 Room			
Time	Presentations		Chairs
	Speakers	Titles	
16:15-16:50	Ömer Sahin Ganiyusufoglu, <i>Qingdao International Academician Park</i>	Resilient and Intelligent Manufacturing Systems at Natural Disasters Thanks to Industrial 4.0 (<i>Invited Talk Onsite</i>)	 Guolong Zhao <i>Nanjing University of Aeronautics and Astronautics</i>
16:50-17:25	Ning He, <i>Nanjing University of Aeronautics and Astronautics</i>	Energy Efficiency and Carbon Emission in Machining under Green Lubri-Cooling (<i>Invited Talk Onsite</i>)	
17:25-18:00	Jürgen Fleischer, <i>Karlsruhe institute of Technology</i>	Flexible Disassembly Systems for Drive Train Components of Electric Vehicles (<i>Invited Talk Online</i>)	
18:30-20:30	Conference Banquet		

Oral Sessions B(III): The Sino-German Forum on Manufacturing (SGFM 2021)

Thursday, Nov.18 14:00-16:00 (UTC +8)		Zoom: 854 4964 3383	
Time	Presentations		Chairs
	Speakers	Titles	
14:00-14:30	Huaizhong Li, <i>Griffith University</i>	On the Mechanics and Dynamics of Micromilling Process – Recent Advances (Invited Talk Online)	
14:30-15:00	Zhanqiang Liu, <i>Shandong University</i>	Material Removal Mechanism and Machined Surface Integrity of Ductile Metals in High Speed Machining Process (Invited Talk)	
15:00-15:12	Xingwei Xu, <i>Shanghai Jiao Tong University</i>	Machinability Analysis and tool Wear State Monitoring for Machining Titanium Alloy Based on Experiment and Statistic Learning (Online)	Zhengang Guo <i>Northwestern Polytechnical University</i>
15:12-15:24	Cunha Carla, <i>ITA</i>	Energy Consumption Estimation Using Force Simulations for Hobbing Process (Online)	Geng Zhang <i>Northwestern Polytechnical University</i>
15:24-15:36	Sohnius Felix, <i>RWTH Aachen University</i>	Quantification of Sustainability in Production Systems - A Conceptual Framework (Online)	
15:36-15:48	Xinfeng Wang, <i>Shandong University</i>	Manufacturing of a Ceramic Groove Part Based on Additive and Subtractive Technologies (Online)	
15:48-16:00	Yanni Li, <i>Chongqing University</i>	Process Parameter Optimization towards Carbon Emission, Cost, and Quality of Laser Welding System (Online)	
16:00-16:15	Tea Break		

Oral Sessions B(IV): The Sino-German Forum on Manufacturing (SGFM 2021)

Friday, Nov. 19 14:00-17:45 (UTC +8)		Zoom ID: 856 0195 7108	
Time	Presentations		Chairs
	Speakers	Titles	
14:00-14:35	Chenhui Zhang, <i>Tsinghua University</i>	The cutting fluid with high lubricating efficiency and biodegradable for titanium alloy machining (<i>Invited Talk Online</i>)	 Xiuqing Hao <i>Nanjing University of Aeronautics and Astronautics</i>
14:35-15:10	Peter Legner, <i>Schenck Shanghai Machinery Co. Ltd.</i>	Presentation of the global sustainability activities/strategy of the Duerr Group (<i>Invited Talk Online</i>)	
15:10-15:45	Weimin Zhang, <i>Tongji University</i>	Turnkey platform of manufacturing system based on industrial 4.0 components (<i>Invited Talk Online</i>)	
15:45-16:15	Tea Break		
16:15-17:45	Round Table Seminar-Towards Sustainability in Manufacturing		Ömer Sahin Ganiyusufoglu <i>Qingdao International Academician Park</i> Ming Chen <i>Shanghai Jiao tong University</i>
18:30-20:30	Dinner		

Oral Sessions C(I): The 2nd Young Scientists Forum on Extreme Manufacturing (Online)

Thursday, Nov.18 | 14:00-16:10 (UTC +8)


Live broadcasting room:



www.koushare.com/lives/room/357208

Time	Presentations		Chairs
	Speakers	Titles	
14:00-14:10	Opening Remark		Huigao Duan, Hunan University
14:10-14:40	Jinyou Shao, <i>Xi'an Jiaotong University</i>	Electrically Assisted Nanoimprinting: A Versatile Method for Fabrication of Difficult-to-form Micro-/Nano structures (Invited Talk Online)	
14:40-15:10	Zhenyu Zhang, <i>Dalian University of Technology</i>	Precision and Ultraprecision Machining Processes and Setups (Invited Talk Online)	
15:10-15:40	Dongdong Gu, <i>Nanjing University of Aeronautics and Astronautics</i>	Laser Additive Manufacturing of Bio-inspired Metallic Components: from Structures to Manufacturing (Invited Talk Online)	
15:40-16:10	Rong Chen, <i>Huazhong University of Science and Technology</i>	Atomic Level Processes Enabling Bottom-Up Manufacturing to Extend Moore's Law and Beyond (Invited Talk Online)	

Oral Sessions C(II): The 2nd Young Scientists Forum on Extreme Manufacturing (Online)

Thursday, Nov.18 16:10-18:10 (UTC +8)		Live broadcasting room: 	
www.koushare.com/lives/room/357208			
Time	Presentations		Chairs
	Speakers	Titles	
16:10-16:40	Wei Yuan, <i>South China University of Technology</i>	Constructing and Manufacturing Functional Structures for Advanced Energy Storage Devices (Invited Talk Online)	Huigao Duan, <i>Hunan University</i>
16:40-17:10	Yong He, <i>Zhejiang University</i>	Cells Assembly With 3D Bioprinting (Invited Talk Online)	
17:10-17:40	Lijuan Zheng, <i>Guangdong University of Technology</i>	Research Progress and Future Technical Challenges of Pcb Micro Deep Hole Drilling (Invited Talk Online)	
17:40-18:10	Wen Qiao, <i>Soochow University</i>	Nanofabrication at Large Scale for Glasses-Free 3D Display (Invited Talk Online)	
18:30-20:30	Conference Banquet		

Oral Sessions C(III): The 2nd Young Scientists Forum on Extreme Manufacturing (Online)

Friday, Nov. 19 | 14:00-16:00 (UTC +8)

Live broadcasting room:



www.koushare.com/lives/room/357208

Time	Presentations		Chairs
	Speakers	Titles	
14:00-14:30	Jinzhong Lu, <i>Jiangsu University</i>	High-Performance integrated Additive Manufacturing with Laser Shock Peening-Induced Microstructural Evolution and Improvement in Mechanical Properties of Ti ₆ Al ₄ V Alloy Components (Invited Talk Online)	Rong Chen, <i>Huazhong University of Science and Technology</i>
14:30-15:00	Huigao Duan, <i>Hunan University</i>	Extending The Capability of Lithography with Mechanical Processes (Invited Talk Online)	
15:00-15:30	Hong Yang, <i>Institute of Mechanical Manufacturing Technology, China Academy of Engineering Physic</i>	Analysis of The Dynamic Behavior for Ultra-Precision Single Diamond Lathe Based on Surface Small-Scale Ripple Error and The Control Method (Invited Talk Online)	
15:30-16:00	Tun Cao, <i>Dalian University of Technology</i>	Optical sorting of nanometer Enantiomers using Metamaterials (Invited Talk Online)	

Oral Sessions C(IV): The 2nd Young Scientists Forum on Extreme Manufacturing (Online)

Friday, Nov. 19 | 16:00-18:00 (UTC +8)

Live broadcasting room:



www.koushare.com/lives/room/357208

Time	Presentations		Chairs
	Speakers	Titles	
16:00-16:30	Dawei Zhang, <i>University of Shanghai for Science and Technology</i>	Optofluidics Based Manufacturing for Ultra-Precision Optics (Invited Talk Online)	Rong Chen, <i>Huazhong University of Science and Technology</i>
16:30-17:00	Qi Ge, <i>Southern University of Science and Technology</i>	Multifunctional Micro Additive Manufacturing: from 3D to 4D (Invited Talk Online)	
17:00-17:30	Ran Ji, <i>Qingdao Germanlitho Co., Ltd.</i>	Nanoimprint Wafer-Level Processing Solutions (Invited Talk Online)	
17:30-18:00	Yuanliu Chen, <i>Zhejiang University</i>	New developments in fast tool servo for ultra-precision machining and in-process monitoring (Invited Talk Online)	
18:30-20:30	Dinner		


Oral Sessions C(V): The 2nd Young Scientists Forum on Extreme Manufacturing

Friday, Nov.19 14:00-15:24 (UTC +8)		Zoom ID: 891 7564 2198	
Time	Presentations		
	Speakers	Titles	
14:00-14:12	Zhenyu Liu, <i>Hebei University of Science & Technology</i>	Research on The Parallelism Detection for The Assembly of Guide Rails in 3D Printer (Online)	
14:12-14:24	Qiong Fu, <i>Huaqiao University</i>	Liquid Film Flow Driven Abrasive Particle Dispersion on The Surface of Rotating Disk (Online)	
14:24-14:36	Yanli Zhao, <i>Hunan University</i>	Ultra-Flexible Transparent Metallic Micromesh for Asymmetrical All-Solid-State Supercapacitor (Online)	
14:36-14:48	Chun Wang, <i>South China University of Technology</i>	Research on Ploughing-Extrusion Process and Performance of Surface Functional Structures of Copper Current Collector for Lithium-Ion Batteries (Online)	
14:48-15:00	Zheng Zhang, <i>Shandong University</i>	Investigating Mechanical Properties and Microstructure of Spark Plasma Sintered Al ₂ O ₃ -SiCw-Si ₃ N ₄ Composite Ceramic Tool Materials (Online)	
15:00-15:12	Baoxu Wang, <i>China Academy of Engineering Physics</i>	Research on Flexure Mounts for Large Aperture Transport Mirrors of Future Laser Fusion Facility (Online)	
15:12-15:24	Shizhan Huang, <i>Huaqiao University</i>	Optimizing Edge Geometry of Broaching tool Based on Broaching Inconel 718 (Online)	
16:00-16:20	Tea Break		




Zhenyu Liu,
Hebei University of Science & Technology


Oral Sessions D(I): Forum on Digital Twin

Thursday, Nov. 18 14:00-16:00 (UTC +8)		Zoom ID: 894 2283 0978	
Time	Presentations		Chairs
	Speakers	Titles	
14:00-14:30	Dimitris Mourtzis, <i>University of Patras</i>	Digital Twin: Bridging the Physical and Digital World (Invited Talk Online)	 Fei Tao <i>Beihang University</i>
14:30-15:00	Yan Zhang, <i>University of Oslo</i>	Digital Twin for Internet of Things (Invited Talk Online)	
15:00-15:30	Wenjun Xu, <i>Wuhan University of Technology</i>	Digital Twin-Enabled Robotic Collaborative Manufacturing (Invited Talk Online)	
15:30-16:00	Tianliang Hu, <i>Shandong University</i>	Digital Twin Application Development Method and Software Platform (Invited Talk Online)	
16:00-16:20	Tea Break		


Oral Sessions D(II): Forum on Digital Twin

Thursday, Nov. 18 16:20-18:26 (UTC +8)		Zoom ID: 894 2283 0978	
Time	Presentations		Chairs
	Speakers	Titles	
16:20-16:50	Hao Li, <i>Zhengzhou University of Light industry</i>	Industrial Digital Twin System Architecture and Application (Invited Talk Online)	 Fei Tao <i>Beihang University</i>
16:50-17:20	Jun Qian, <i>KU Leuven</i>	Towards Digital Passport of Manufacturing Processes & Product (Invited Talk Online)	
17:20-17:50	Libo Zhou, <i>National Ibaraki University</i>	Fundamental concept of deep learning and Its Applications in Intelligent Manufacturing (Invited Talk Online)	
17:50-18:02	Jieji Zheng, <i>National University of Defense Technology</i>	Digital Twin Model and High-Precision Control of Rv Transmission System Based on Pso Algorithm (Online)	
18:02-18:14	Jingwei Li, <i>Hebei University of Science and Technology</i>	Mixed Reality-Driven General Aircraft Assembly Process Execction Method (Online)	
18:14-18:26	Zenghui Huo, <i>Hebei University of science and technology</i>	Reverse Engineering Design for Metal Additive Manufacturing (Online)	
18:30-20:30	Conference Banquet		

Oral Sessions D(III): Forum on Digital Twin

Friday, Nov. 19 14:00-16:00 (UTC +8)		Zoom ID: 894 2283 0978	
Time	Presentations		Chairs
	Speakers	Titles	
14:00-14:30	Ang Liu, <i>University of New South Wales</i>	Digital Twin for Engineering Design (<i>Invited Talk Online</i>)	 Fei Tao <i>Beihang University</i>
14:30-15:00	Aydin Nassehi, <i>University of Bristol</i>	Lifecycle and Connectivity of Digital Twins in Production Systems: from Digital Disorder to Digital Harmony (<i>Invited Talk Online</i>)	
15:00-15:30	Nabil Anwer, <i>Paris-Saclay University</i>	Digital Twins for Smart Manufacturing: Challenges and Opportunities for Geometrical Product Specifications and Verification (<i>Invited Talk Online</i>)	
15:30-16:00	Feng Xiang, <i>Wuhan University of Science and Technology</i>	Digital Twin-Based Visualization Management Method for Surface Quality of Hot Rolled Coil (<i>Invited Talk Online</i>)	
16:00-16:20	Tea Break		


Oral Sessions D(IV): Forum on Digital Twin

Friday, Nov. 19 16:20-18:32 (UTC +8) Zoom ID: 894 2283 0978 3-6 Room			
Time	Presentations		Chairs
	Speakers	Titles	
16:20-16:50	Ying Cheng, <i>Beihang University</i>	Digital Twin Enhanced Smart Manufacturing Services (<i>Invited Talk Online</i>)	 Fei Tao <i>Beihang University</i>
16:50-17:20	Yang Li, <i>Northwestern Polytechnical University</i>	Data-Driven Modeling Methods in Multi-Stage Manufacturing Systems (<i>Invited Talk Onsite</i>)	
17:20-17:32	Caizhu Pang, <i>Hebei University of Science and Technology</i>	Parametric Design of Products Based on MBD (<i>Online</i>)	
17:32-17:44	Junlin Heng, <i>Shenzhen University</i>	Digital Twins-Based Fatigue Evaluation of Rib-to-Deck Joints in Orthotropic Steel Decks (<i>Online</i>)	
17:44-17:56	Fanhang Zeng, <i>Wuhan University of Science and Technology</i>	Digital Twin-Driven Control Framework for Edge Crack in Hot Rolled Coil (<i>Online</i>)	


Friday, Nov. 19 | 16:20-18:50 (UTC +8)

Zoom ID: 894 2283 0978


3-6 Room

Time	Presentations		Chairs
	Speakers	Titles	
17:56-18:08	Hongyu Ding, <i>Beijing University of Technology</i>	A Study on Meshing Behaviors of Hybrid Plastic Gear at Different Temperatures (Online)	 Fei Tao <i>Beihang University</i>
18:08-18:20	Jiangyan Jin, <i>Hebei University of science and technology</i>	Digital Twin-Based Assembly Process Planning and Execution Framework for Complex Product (Online)	
18:20-18:32	Housheng Wei, Tongji University	Multi-Protocol Condition Monitoring System based on 5G and umati (Online)	
18:30-20:30	Dinner		


Oral Sessions E(I): High Performance Manufacturing

Thursday, Nov.18 14:00-16:00 (UTC +8)				Zoom ID: 899 3229 5598	3-7 Room
Time	Presentations			Chairs	
	Speakers	Titles			
14:00-14:30	Hang Gao, <i>Dalian University of Technology</i>	High Pressure Abrasive Water Jet Machining Technology for Engine Blisk Surface (<i>Invited Talk Online</i>)		 Rui Yang <i>Dalian University of Technology</i>	
14:30-15:00	Julong Yuan, <i>Zhejiang University of Technology</i>	Stress Rheological Polishing Technology and It's Applications (<i>Invited Talk</i>)			
15:00-15:30	Yun Huang, <i>Chongqing University</i>	Adaptive Robot Belt Grinding Technology and Equipment of High-Performance Surface for Blisk (<i>Invited Talk</i>)			
15:30-16:00	Huaijiang Yang, <i>University of Chinese Academy of Sciences</i>	Progress in Extreme Precision Optical Machining for Lithography in China (<i>Invited Talk Online</i>)			
16:00-16:20	Tea Break				

Oral Sessions E(II): High Performance Manufacturing


Thursday, Nov.18 16:20-18:20 (UTC +8) Zoom ID: 899 3229 5598 3-7 Room			
Time	Presentations		Chairs
	Speakers	Titles	
16:20-16:50	Bingfeng Ju, <i>Zhejiang University</i>	The Measurement Technologies for High Performance Manufacturing (Invited Talk Online)	 Rui Yang <i>Dalian University of Technology</i>
16:50-17:20	Liang Gao, <i>Huazhong University of Science and Technology</i>	Projection Outlines in Hybrid Reliability Analysis & Reliability-Based Design Optimization (Invited Talk Online)	
17:20-17:50	Xinjun Liu, <i>Tsinghua University</i>	New Mode and Robotic Equipment Innovation for Large-scale Structures in Situ Machining (Invited Talk Online)	
17:50-18:20	Jinyou Shao, <i>Xi'an Jiaotong University</i>	Surface and Interface Modification at Micro/Nano Scale for High-Performance Manufacturing (Invited Talk Online)	
18:30-20:30	Conference Banquet		

Oral Sessions E(III): High Performance Manufacturing


Thursday, Nov.18 14:00-16:00 (UTC +8)		Zoom ID: 897 8358 5626	
Time	Presentations		Chairs
	Speakers	Titles	
14:00-14:12	Oetl Fabio, <i>Augsburg University</i>	Method for evaluating the monetary added value of the usage of a digital twin for additive manufacturing (Online)	 Hao Dou, <i>Northwestern Polytechnical University</i>
14:12-14:24	Longyun Yang, <i>Dalian University of Technology</i>	Research on the wide-range dynamic plastic constitutive relationship of FV520B martensitic stainless steel (Online)	
14:24-14:36	Zhenyu Wu, <i>Zhejiang Sci-Tech University</i>	Manufacturing of braided tubular preform with gradient structure (Online)	
14:36-14:48	Singh Himanshu, <i>National Institute of Technology Nagpur</i>	Optimization of machining parameters for cryogenic Treated Electrode in EDM using MCDM technique (Online)	
14:48-15:00	Kui Liu, <i>Dalian University of Technology</i>	Effect of process parameters on extrudate deformation behavior of viscoelastic polymer melt in the micro-extrusion (Online)	

Thursday, Nov.18 | 14:00-15:48 (UTC +8)

Zoom ID: 897 8358 5626


Time	Presentations		Chairs
	Speakers	Titles	
15:00-15:12	Hongcheng Shen, <i>Zhejiang University of Technology</i>	A Large-Deformation, Low-Voltage-Electrothermal-Actuation and Lightweight Inchworm-Like Crawling Robot Based on Bistable Structures for Load Bearing and Carrying (Online)	 Longyun Yang, <i>Dalian University of Technology</i>
15:12-15:24	Hao Dou, <i>Northwestern Polytechnical University</i>	Research on the in-plane compression properties of continuous carbon fiber reinforced 3D printing honeycomb (Online)	
15:24-15:36	Wenguang Ye, <i>Northwestern Polytechnical University</i>	Self-sensing properties of 3D printed continuous carbon fiber composites during tensile and three-point bending (Online)	
15:36-15:48	Jingyang Feng, <i>Dalian University of Technology</i>	Force prediction model of high efficiency U pass milling (Online)	
15:48-16:00	Tianqiu Xu, <i>Beijing Institute of Technology</i>	Fabrication of unsupported inclined spatial rod structures based on wire arc additive manufacturing (Online)	
16:00-16:20	Tea Break		

Oral Sessions E(IV): High Performance Manufacturing


Thursday, Nov.18 16:20-18:08 (UTC +8)		Zoom ID: 897 8358 5626	
Time	Presentations		Chairs
	Speakers	Titles	
16:20-16:32	Mingye Dong, <i>Tsinghua University</i>	Segregation behaviors and evolution of wire and arc additively manufactured Al-Cu wall structure (Online)	 Jichun Wu, <i>Xiangtan University</i>
16:32-16:44	Hongjian Ding, <i>Shandong University</i>	Study on machining properties of 316L stainless steel deposited by direct energy deposition (Online)	
16:44-16:56	Peng Wang, <i>Shandong University</i>	Material extrusion additively manufactured functionally gradient polyetheretherketone based composites (Online)	
16:56-17:08	Xiaohui Jiang, <i>University of Shanghai for Science and Technology</i>	Improvement of surface quality based on magnetorheological fluids flexible fixture during milling thin-walled parts (Online)	
17:08-17:20	Zhi Tang, <i>Liaoning Petrochemical University</i>	Improved Multi-Objective Wolf Swarm Optimization Algorithm and Application (Online)	

Thursday, Nov.18 | 16:20-18:08 (UTC +8)


Zoom ID: 897 8358 5626

Time	Presentations		Chairs
	Speakers	Titles	
17:20-17:32	Qinghua Chen, <i>Shandong University</i>	Microstructures and properties of HAP bioceramic fabricated by SLA-3D printing (Online)	 Mingye Dong, <i>Tsinghua University</i>
17:32-17:44	Jichun Wu, <i>Xiangtan University</i>	Research on motion control of heavy-duty grasping and carrying robot based on PLCOPEN (Online)	
17:44-17:56	Tianhao Jia, <i>Shandong University</i>	Mechanical properties of Inconel 718 nickel-based superalloy fabricated by laser directed energy deposition (Online)	
17:56-18:08	Zixuan Wang, <i>Northeastern University</i>	A Study on Laser Engineered Net Shaping CBN Grinding Wheel Preparation Technology (Online)	
18:30-20:30	Conference Banquet		


Oral Sessions E(V): High Performance Manufacturing

Friday, Nov. 19 14:00-16:00 (UTC +8)		Zoom ID: 899 3229 5598	
Time	Presentations		Chairs
	Speakers	Titles	
14:00-14:30	Linmao Qian, <i>Southwest Jiaotong University</i>	Microwear Mechanism and Application Research for IC Manufacturing (Invited Talk Online)	 Rui Yang <i>Dalian University of Technology</i>
14:30-15:00	Kaifu Zhang, <i>Northwestern Polytechnical University</i>	Damage Mechanism Analysis and Service Performance Prediction on the Interference-fit Joint of CFRP Structure (Invited Talk Online)	
15:00-15:30	Zhoupin Yin, <i>Huazhong University of Science and Technology</i>	Flexible Electronics Manufacturing Technology and Equipment (Invited Talk Online)	
15:30-16:00	Chao Jiang, <i>Hunan University</i>	Uncertainty Analysis and Design for Complex Structures (Invited Talk Online)	
16:00-16:20	Tea Break		

Oral Sessions E(VI): High Performance Manufacturing


Friday, Nov. 19 16:20-18:20 (UTC +8)		Zoom ID: 899 3229 5598	
Time	Presentations		Chairs
	Speakers	Titles	
16:20-16:50	Yuwen Sun, <i>Dalian University of Technology</i>	Synchronous Dual Robot Machining for Large PMMA Parts with Complex Surfaces (Invited Talk Online)	 Rui Yang <i>Dalian University of Technology</i>
16:50-17:20	Dongdong Gu, <i>Nan University of Aeronautics and Astronautics</i>	Laser-metal additive manufacturing towards high performance and multifunctionality (Invited Talk Online)	
17:20-17:50	Hongrui Cao, <i>Xi'an Jiaotong University</i>	The Concept and Recent Progress of Intelligent Spindles (Invited Talk Online)	
17:50-18:20	Joel Rech, <i>University of Lyon</i>	Superfinishing Processes for Additively Manufactured Components (Invited Talk Online)	
18:30-20:30	Dinner		

Oral Sessions E(VII): High Performance Manufacturing


Friday, Nov. 19 14:00-16:00 (UTC +8)		Zoom ID: 897 8358 5626	
Time	Presentations		Chairs
	Speakers	Titles	
14:00-14:12	Jieji Zheng, <i>National University of Defense Technology</i>	Multi-Mode Control of Multi-Ultrasonic Motor (Online)	 Shaochuan Feng, <i>University of Science and Technology Beijing</i>
14:12-14:24	Zhenyu Zhang, <i>National University of Defense Technology</i>	Modeling and Parameter Identification of Double Inertia System of Precise Cable Drive (Online)	
14:36-14:48	Minghui Pan, <i>Nanjing Unviversity of Science and Technology</i>	The experimental analysis and FE simulation of welding deformation for T-joint thin-walled part for different conditions (Online)	
14:48-15:00	Yuanxiao Li, <i>Henan Polytechnic University</i>	Influence of Force-Thermal behaviors and chip formation on entrance delamination in drilling CFRP / Ti6Al4V Stacks (Online)	
15:00-15:12	Dianjin Zhang, <i>Harbin Institute of Technology</i>	Fused Deposition Modeling repair using support beams for the damaged polymer material parts (Online)	

Friday, Nov. 19 | 14:00-16:00 (UTC +8)


Zoom ID: 897 8358 5626

Time	Presentations		Chairs
	Speakers	Titles	
15:12-15:24	Yan Zhang, <i>Harbin Institute of Technology</i>	Structural Fabrication and Functional Repair in Unknown Environments based on Deep Reinforcement Learning (Online)	 Minghui Pan, <i>Nanjing Unviversity of Science and Technology</i>
15:24-15:36	Guanghao Chu, <i>Harbin Institute of Technology</i>	Design of High-load Performance Four-dimensional Printed Mesh Structure (Online)	
15:36-15:48	Shaochuan Feng, <i>University of Science and Technology Beijing</i>	Experimental and numerical investigation of the origin of surface roughness in laser powder bed fused overhang regions (Online)	
15:48-16:00	Zhenyu Zhang, <i>National University of Defense Technology</i>	Research on the multi motor cooperative control based on bus distributed control system (Online)	
16:00-16:20	Tea Break		


Oral Sessions F(I): Microsystems and Micro & Nano Manufacturing

Thursday, Nov.18 14:00-16:00 (UTC +8)				Zoom ID: 856 6148 6465	3-8 Room
Time	Presentations			Chairs	
	Speakers	Titles			
14:00-14:30	Jin Xie, <i>Zhejiang University</i>	AIN Piezoelectric Micromachined Ultrasonic Transducers (Pmut) and Acoustic Sensors (Invited Talk Onsite)		 Honglong Chang <i>Northwestern Polytechnical University</i>	
14:30-15:00	Dingbang Xiao, <i>National University of Defense Technology</i>	High-Performance Rate-Integrating MEMS Gyroscope Around the Corner (Invited Talk Online)			
15:00-15:30	Weidong Wang, <i>Xidian University</i>	A Novel Ultra-Low-g MEMS Inertial Switch (Invited Talk Onsite)			
15:30-16:00	Huafeng Liu, <i>Huazhong University of Science and Technology</i>	Sub-Picometer Displacement Transducers and Their Applications in MEMS Seismometers (Invited Talk Onsite)			
16:00-16:20	Tea Break				

Oral Sessions F(II): Microsystems and Micro & Nano Manufacturing


Thursday, Nov.18 16:20-17:50 (UTC +8) Zoom ID: 856 6148 6465 3-8 Room			
Time	Presentations		Chairs
	Speakers	Titles	
16:20-16:50	Huiliang Cao, <i>North University of China</i>	Design, Fabrication and Test of High Overload Resistance MEMS Silicon-Based Ring Wave Gyroscope (<i>Invited Talk Onsite</i>)	 Honglong Chang <i>Northwestern Polytechnical University</i>
16:50-17:20	Zaifa Zhou, <i>Southeast University</i>	Processing Control Monitor for MEMS Fabrication and Design (<i>Invited Talk Onsite</i>)	
17:20-17:50	Oltmann Riemer, <i>University of Bremen</i>	Generation of Functional Optical Microstructures by Ultraprecision-Machining (<i>Invited Talk Online</i>)	
18:30-20:30	Conference Banquet		

Oral Sessions F(III): Microsystems and Micro & Nano Manufacturing


Friday, Nov. 19 14:00-16:00 (UTC +8)		Zoom ID: 856 6148 6465	
Time	Presentations		Chairs
	Speakers	Titles	
14:00-14:30	Mingwang Fu, <i>The Hong Kong Polytech University</i>	Size Effects in Multi-Scaled Materials Processing and Manufacturing (Invited Talk Online)	 Jianbing Xie <i>Northwestern Polytechnical University</i>
14:30-15:00	Dermot Brabazon, <i>Dublin City University</i>	Inkjet Printable Conductive Nano-Colloid Generation Via Pulsed Laser Ablation in Liquid for Photovoltaic Application (Invited Talk Online)	
15:00-15:12	Yueqiang Hu, <i>Hunan University</i>	Metasurfaces Driven by Extreme Micro-Nano Fabrication (Online)	
15:12-15:24	Hansong Ji, <i>Shandong University</i>	Pore Effects on The Grain-Scale Mechanical and Damage Behaviors of Inconel-718 Superalloy Via Crystal Plasticity Simulations (Online)	

Friday, Nov. 19 | 14:00-16:00 (UTC +8)


Zoom ID: 856 6148 6465

Time	Presentations		Chairs
	Speakers	Titles	
15:24-15:36	Jun Yin, <i>Zhejiang University</i>	High-Fidelity and High-Efficiency Digital Light Processing of Cell-Laden Bioink (Online)	 Jianbing Xie <i>Northwestern Polytechnical University</i>
15:36-15:48	Jichun Wu, <i>Xiangtan University</i>	Research on Realization of Fast Generate PLC Function Block Based on Matlab Code (Online)	
15:48-16:00	Lianjun Sun, <i>Nanjing University of Science and Technology</i>	Optimal Ratio Analysis of torsional-Longitudinal Amplitudes Based on Robotic Rotary Ultrasonic Milling Stability (Online)	
16:00-16:20	Tea Break		

Oral Sessions G(I): Intelligent Design for Performance

Thursday, Nov.18 14:00-16:00 (UTC +8)		Zoom ID: 891 7564 2198	
Time	Presentations		Chairs
	Speakers	Titles	
14:00-14:15	Jihong Zhu, <i>Northwestern Polytechnical University</i>	Shape Preserving Optimization Design for Aerospace Structures (Invited Talk Online)	 Chao Jiang <i>Hunan University</i> Xueguan Song <i>Dalian University of Technology</i>
14:15-14:30	Zhenyu Liu, <i>Zhejiang University</i>	Design And Simulation of Complex Equipment Driven by Digital Twin (Invited Talk Online)	
14:30-14:45	Congsi Wang, <i>Xidian University</i>	Electromechanical Coupling of Microwave Antennas (Invited Talk Online)	
14:45-15:00	Teng Long, <i>Beijing Institute of Technology</i>	Data-driven Intelligent Approximate Optimization Methods for Aerospace Systems (Invited Talk Online)	
15:00-15:15	Jie Hu, <i>Shanghai Jiao Tong University</i>	Innovative Design in the Era of Artificial Intelligence (Invited Talk Online)	
15:15-15:30	Fugui Xie, <i>Tsinghua University</i>	Design And Key Technologies of a Portable Machining Robot (Invited Talk Online)	
15:30-15:45	Haobo Qiu, <i>Huazhong University of Science and Technology</i>	Surrogate-Assisted Differential Evolution Algorithms for Computationally Expensive Design Optimization Problems with Complex Constraints (Invited Talk Online)	
15:45-16:00	Bin Niu, <i>Dalian University of Technology</i>	Multiscale Design Optimization of Periodic Lattice Structures (Invited Talk Online)	
16:00-16:20	Tea Break		


Oral Sessions G(II): Intelligent Design for Performance

Thursday, Nov.18 16:20-18:05 (UTC +8)		Zoom ID: 891 7564 2198	
Time	Presentations		Chairs
	Speakers	Titles	
16:20-16:35	Zhonghua Han, <i>Northwestern Polytechnical University</i>	Efficient Global Aerodynamic Shape Optimization for Aircraft Design (Invited Talk Online)	 Zhenyu Liu <i>Zhejiang University</i> Bin Niu <i>Dalian University of Technology</i>
16:35-16:50	Jie Liu, <i>Hunan University</i>	Computational Inverse Technologies for Performance Customization Design of Mechanical Structures (Invited Talk Online)	
16:50-17:05	Mian Li, <i>Shanghai Jiao Tong University</i>	Low-Cycle Fatigue Lifetime Estimation for a Gas Turbine Compressor Vane Carrier Under Varying Operating Conditions (Invited Talk Online)	
17:05-17:20	Dequan Zhang, <i>Hebei University of Technology</i>	Reliability Design And Error Compensation for Industrial Robots (Invited Talk Online)	
17:20-17:35	Xueguan Song, <i>Dalian University of Technology</i>	Multidisciplinary Co-design Optimization of Structural and Control Parameters for Intelligent Equipment (Invited Talk Online)	
17:35-18:05	Panel discussion	Intelligent Design for Performance and Manufacturing (Invited Talk Online)	
18:30-20:30	Conference Banquet		


Oral Sessions H(I): NSFC Project Report Session

Thursday, Nov.18 14:00-16:00 (UTC +8)		Zoom ID: 883 2701 6740		
Time	Presentations		Chairs	
	Speakers	Titles		
14:00-14:15	姚建涛 (燕山大学)	具有混合分支的模型可重构柔性并联多维重载力感知机构基础理论研究 (面上项目, 51675459) 线上参会	 张洪玉 清华大学	
14:15-14:30	何洪文 (北京理工大学)	未来工况在线重构方法及在插电式混合动力汽车中的应用 (面上项目, 51675042) 线上参会		
14:30-14:45	姚建勇 (南京理工大学)	兼顾环境影响与物理约束的电液伺服系统关键控制方法研究 (面上项目, 51675279) 线上参会		
14:45-15:00	钟舜聪 (福州大学)	热障涂层高温 TGO 生长和微缺陷演化的太赫兹定量无损评价机理及其可靠性研究 (面上项目, 51675103) 线上参会		
15:00-15:15	章新杰 (吉林大学)	磁流变阀控半主动悬架汽车瞬态动力学特性及协调控制研究 (面上项目, 51675217) 线上参会		姚建勇 南京理工大学
15:15-15:30	李亮 (清华大学)	插电式并联混合动力系统瞬态动力学耦合机制与多目标动态博弈控制方法研究 (面上项目, 51675293) 线上参会		
15:30-15:45	王岩松 (上海工程技术大学)	高速汽车车内声品质声—振混合主动控制方法研究 (面上项目, 51675324) 线上参会		
15:45-16:00	张洪玉 (清华大学)	人工关节材料超润滑与载药缓释“双重”表面改性及其生物学、摩擦学性能研究 (面上项目, 51675296) 线上参会		
16:00-16:20	Tea Break			


Oral Sessions H(II): NSFC Project Report Session

Thursday, Nov.18 16:20-17:50 (UTC +8)		Zoom ID: 883 2701 6740	
Time	Presentations		Chairs
	Speakers	Titles	
16:20-16:35	莫继良（西南交通大学）	基于摩擦界面优化的低噪声高速列车盘形制动闸片的设计（面上项目，51675448） 线上参会	 贺健康 西安交通大学 李晓炜 北京理工大学
16:35-16:50	贺健康（西安交通大学）	导电传感心肌支架多材料微纳 3D 打印研究（面上项目，51675412） 线上参会	
16:50-17:05	李峰（哈尔滨理工大学）	镁合金连续变通道直接挤压成形机理与形/性协同调控机制（面上项目，51675143） 线上参会	
17:05-17:20	娄燕（深圳大学）	光学高聚物超薄导光板连注连轧成型机理及质量控制（面上项目，51675347） 线上参会	
17:20-17:35	宋燕利（武汉理工大学）	高强铝合金车身覆盖件伺服热冲压成形机理与应用研究（面上项目，51675392） 线上参会	
17:35-17:50	李晓炜（北京理工大学）	面向超表面制备的空间整形超快激光金属微纳结构大面积高质量加工（面上项目，51675049） 线上参会	
18:30-20:30	Conference Banquet		


Oral Sessions H(III): NSFC Project Report Session

Thursday, Nov.18 14:00-15:45 (UTC +8) Zoom ID: 889 3256 6873 3-9 Room			
Time	Presentations		Chairs
	Speakers	Titles	
14:00-14:15	朱栋（南京航空航天大学）	场域封闭的复杂型面进排气边电解加工基础研究（面上项目，51675271） 线下参会	 罗明 <i>西北工业大学</i> 朱栋 <i>南京航空航天大学</i>
14:15-14:30	张映锋（西北工业大学）	基于 CPS 和工业物联网的智能生产-物流系统自适应协同优化方法研究（面上项目，51675441） 线下参会	
14:30-14:45	黄海鸿（合肥工业大学）	激励磁场下等离子喷焊再制造熔覆成形机理及表面质量评定（面上项目，51675155） 线下参会	
14:45-15:00	罗明（西北工业大学）	航空发动机零件切削加工现场数据的处理、积累与进化机制（面上项目，51675438） 线下参会	
15:00-15:15	杨兆军（吉林大学）	数控机床主轴可靠性加速试验基础问题研究（面上项目，51675227） 线下参会	
15:15-15:30	万敏（西北工业大学）	钛合金叶片高稳定多轴铣削的抑振理论与方法研究（面上项目，51675440） 线下参会	
15:30-15:45	江志刚（武汉科技大学）	基于再制造域空间的废旧机械装备多目标优化再设计理论与方法研究（面上项目，51675388） 线下参会	
16:00-16:20	Tea Break		


Oral Sessions H(IV): NSFC Project Report Session

Thursday, Nov.18 16:20-17:50 (UTC +8) Zoom ID: 889 3256 6873 3-9 Room			
Time	Presentations		Chairs
	Speakers	Titles	
16:20-16:35	刘金鑫 (西安交通大学)	潜艇声特征隐身的频谱塑形主动控制研究 (青年项目, 51705396) 线下参会	 聂冰冰 清华大学 刘金鑫 西安交通大学
16:35-16:50	乔百杰 (西安交通大学)	复合材料结构冲击载荷的稀疏识别方法研究 (青年项目, 51705397) 线下参会	
16:50-17:05	高阳 (华东理工大学)	高延展性石墨烯应变传感器及其性能衰变机理研究 (青年项目, 51705154) 线下参会	
17:05-17:20	聂冰冰 (清华大学)	基于概率模型与体型特征的汽车乘员足踝损伤行为研究 (青年项目, 51705276) 线上参会	
17:20-17:35	唐忠 (江苏大学)	基于准零刚度原理控制水稻脱粒过程诱发滚筒振动的方法研究 (青年项目, 51705212) 线下参会	
17:35-17:50	张体明 (南昌航空大学)	微区氢浓度与敏感组织耦合作用下 X80 钢焊接 HAZ 的开裂机理 (青年项目, 51705535) 线上参会	
18:30-20:30	Conference Banquet		

Oral Sessions H(V): NSFC Project Report Session

Friday, Nov. 19 14:00-15:30 (UTC +8) Zoom ID: 883 2701 6740 3-9 Room			
Time	Presentations		Chairs
	Speakers	Titles	
14:00-14:15	邓耀华 (广东工业大学)	柔性材料多工位连续制造系统智能维护虚实一体建模方法的研究 (面上项目, 51675109) 线上参会	 周圣军 武汉大学 张福民 天津大学
14:15-14:30	王华庆 (北京化工大学)	基于压缩感知的主轴轴承强欠定多源信号分离与同步诊断方法 (面上项目, 51675035) 线下参会	
14:30-14:45	张福民 (天津大学)	基于光学频率梳跨尺度波长同步合成的大尺寸绝对测距技术研究 (面上项目, 51675380) 线下参会	
14:45-15:00	张宗华 (河北工业大学)	基于相位和深度间直接关系的镜面物体三维形貌测量原理与技术研究 (面上项目, 51675160) 线上参会	
15:00-15:15	廖广兰 (华中科技大学)	基于钙钛矿的高效微能源器件可控制备研究 (面上项目, 51675210) 线上参会	
15:15-15:30	周圣军 (武汉大学)	深紫外 LED 芯片金属线网格透明电极与高效出光结构制造的关键技术研究 (面上项目, 51675386) 线上参会	
16:00-16:20	Tea Break		

Oral Sessions H(VI): NSFC Project Report Session

Friday, Nov. 19 16:20-17:50 (UTC +8) Zoom ID: 883 2701 6740 3-9 Room			
Time	Presentations		Chairs
	Speakers	Titles	
16:20-16:35	高成德（中南大学）	纳米蜂窝结构增强生物镁合金的激光制备及其降解机理研究（青年项目，51705540） 线上参会	 申强 <i>西北工业大学</i> 陶凯 <i>西北工业大学</i>
16:35-16:50	陶凯（西北工业大学）	驻极体微型振动能量采集器的优化设计及非线性拓调频机制研究（青年项目，51705429） 线下参会	
16:50-17:05	程健（哈尔滨工业大学）	KDP 晶体加工表面微缺陷诱导激光损伤的演变机制及其对抗光伤能力的影响研究（青年项目，51705105） 线上参会	
17:05-17:20	黄虎（吉林大学）	纳秒脉冲激光诱导非晶合金表面微/纳米结构形成机理研究（青年项目，51705197） 线上参会	
17:20-17:35	刘延芳（哈尔滨工业大学）	空间激光通讯 ATP 系统中压电尺蠖型驱动器箝位动态特性分析及系统动力学模型研究（青年项目，51705109） 线上参会	
17:35-17:50	申强（西北工业大学）	硅微机械陀螺片上旋转调制高精度实现方法研究（青年项目，51705430） 线上参会	
18:30-20:30	Dinner		

Poster Session (NSFC projects not included)

Thursday, Nov.18 14:00-18:00 (UTC +8)			
Number	Authors	Titles	Topics
20028	Jiahuan Liu, <i>Huazhong University of Science and Technology</i>	Fast Defect Detection Methods of Plastic injection Molding Using Model Compression	Digital Twin
20045	Lingyu Chen, <i>National University of Defense Technology</i>	Research on Functional Safety Design Method of Integrated Servo Drive Based on Digital Twin Concept	Digital Twin
30172	Zhe Zhao, <i>Northwestern Polytechnical University</i>	Electret-based Intelligent Thrust Bearing for High-precision and Self-powered Rotation-speed Sensing	Microsystems and Micro & Nano Manufacturing
40094	Heqiang Liu, <i>Beijing Precision Machinery & Engineering Research Co.,LTD</i>	Application of sound detection system on CNC turning and grinding compound machine tool	Precision Manufacturing
40095	Xiaomeng Dong, <i>Beijing Precision Machinery & Engineering Research Co.LTD</i>	Design and Realization of The Electrical System of The Test Bench for Machine Tool Spindle Performance	Precision Manufacturing
40110	Cheng Shen, <i>National University of Defense Technology</i>	Research on Line of Sight Motion Modeling and Fire Control Correction forecast of Intelligent Viewing Target System	Precision Manufacturing
40113	Tianyang Wang, <i>Dalian Polytechnic University</i>	Research on Vibration Characteristics of Gear-Rotor-Bearing System under Compound Defects	Precision Manufacturing
40146	Rui Wu, <i>Beijing institute of Graphic Communication</i>	Research on Printing Energy Consumption Detection Method Based on Zigbee	Precision Manufacturing

40167	Haorong Guo, <i>Northwestern Polytechnical University</i>	Rapid Analysis of Steel Powder for 3D Printing Using Laser-Induced Breakdown Spectroscopy	Precision Manufacturing
40169	Jialin Hou, <i>GuangDong Ocean University</i>	Discussion on The Traditional Identification Method of Pitch Error and Yaw Error	Precision Manufacturing
60036	Yi Li, <i>Ningbo University</i>	Structural Design of Chip Breaker for Pcd Turning Tools	High Performance Manufacturing
60044	Xianliang Jiang, <i>National University of Defense and Technology</i>	Design of Servo Functional Safety Model of Rv Transmission Component	High Performance Manufacturing
60046	Yue Zhou, <i>Harbin instituted of Technology</i>	Design and Performance Analysis of Structural for The Cable-Less Positioning Stage with Gas-Lubricated Bearing	High Performance Manufacturing
60048	Ying He, <i>Tianjin University Renai College</i>	Multi-Objective Structure Optimization Design of Waist Turntable of a Palletizing Robot Based on Fea+Ahp	High Performance Manufacturing
60054	Zhichao Cheng, <i>Zhejiang University of Technology</i>	Surface Preparation of Steel Sample by Lapping and Polishing for Instrumented Nano-indentation	High Performance Manufacturing
60064	Denys Plakhotnik, <i>Moduleworks GmbH</i>	Quality Implications of Applying 3+2 Axis Toolpaths in 3D Printing	High Performance Manufacturing
60079	Junzhou Yang, <i>Northwestern Polytechnical University</i>	The Application of Nsga-ii on The Determination of Multi-Scale Physical Constitutive Model	High Performance Manufacturing

60085	Jianfeng Chen, <i>Dalian University of Technology</i>	High Pressure Abrasive Waterjet Machining Technology for Engine Blisk Surface	High Performance Manufacturing
60151	Min Wang, <i>Beijing University of Chemical Technoloigy</i>	Study on Friction and Wear Properties and Mechanism of Fe-Based Amorphous Machined Coatings	High Performance Manufacturing