

## Room 2

### Keynote session 2 (Advanced manufacturing II)

KS2-1 Keynote Speaker: Prof. Lihui Wang  
Latest Advancement on Human-Robot Collaboration in Manufacturing (GS10-15)  
Lihui Wang

KS2-2 Keynote Speaker: Prof. Xichun Luo  
Digital twin-driven ultra precision manufacturing system (GS14-05)  
Xichun Luo

KS2-3 Keynote Speaker: Prof. Samanta Piano  
Enhancing in-process monitoring of additive manufacturing through virtual fringe-projection simulations (GS11-27)  
Tibebe Yalew, Xiangjun Kong, Qingkang Bao, Gerardo Adesso and Samanta Piano

### Feature session 2 (Ultraprecision/ Semiconductor manufacturing)

FS2-1 Feature Speaker: Dr. Jufan Zhang  
Atomic and Close-to-atomic Scale Manufacturing of Large-scale Solid-state Nanopore Array (GS08-03)  
Jufan Zhang, Hongshuai Liu, Boyuan Pang and Fengzhou Fang

FS2-2 Feature Speaker: Prof. Zhiyu Zhang  
Fabrication of membrane optics by diamond turning combined with spin molding (OS07-05)  
Zhiyu Zhang, Ruoqui Wang, Chengli Guo, Xuejun Zhang and Jiwang Yan

FS2-3 Feature Speaker: Prof. Hao Wang  
Development of Augmented Ultraprecision Machining Technology (OS05-25)  
Hao Wang

### Feature session 7 (Precision machining)

FS7-1 Feature Speaker: Prof. Chao-Ching Ho  
Enhancing Dataset Variability in Semiconductor Manufacturing through Domain Adaptation and Advanced Simulation Techniques (GS17-01)  
Chong-Han Hsu, Eugene Su, Bo-En Tsai and Chao-Ching Ho

FS7-2 Feature Speaker: Dr. Bertolini Rachele  
Enhanced Formability and Martensite Transformation in AISI 316 Stainless Steel at Sub-Zero Temperatures (GS03-02)  
Bertolini Rachele, Simonetto Enrico, Savio Enrico, Ghiotti Andrea and Bruschi Stefania

FS7-3 Feature Speaker: Prof. Sangkee Min  
Investigating the effects of crystallography on subsurface damage during ultra-precision machining of sapphire (OS07-10)  
Aditya nagaraj, Suk Bum Kwon, Dalei xi, Yiyang Du, Woo Kyun Kim and Sangkee Min

FS7-4 Feature Speaker: Dr. Zekai Murat Kilic  
Analytical cutting force prediction of axial ultrasonic vibrations-assisted milling of difficult-to-cut materials (OS05-32)  
Wang Jiacheng, Namlu Ramazan Hakki, Kilic Sadik Engin, Mativenga Paul and Kilic Zekai Murat