

The 8th International Workshop on Advanced Patterning Solutions

第八届国际先进光刻技术研讨会

October 15-16, 2024, Nanhu Hotel, Jiaxing, Zhejiang Province, China 2024年10月15日至16日,南湖宾馆嘉禾厅,浙江嘉兴,中国 (October 14 for registration, 10月14日注册)

Agenda 会议日程

Program Chairs: Danping Peng, Toru Fujimori, Wenzhan Zhou

Rogistration 注册

Registration 注册			
14 Oct. 2024		10:30-20:00	@酒店大厅&嘉禾厅
15-16 Oct. 2024		08:00-17:00	@嘉禾厅 JIAHE Grand Ballroom
<u>DAY 1:</u>	DAY 1:		
15 Oct. 2024 (*			
JIAHE Grand	Ballro	oom 嘉禾厅	
DAY 1-Morn	ing		
08:30-09:00	Oper	ning Ceremony & Welco	ome Address
00.30-09.00	Chai	r: Yayi Wei(韦亚一)	
	1 -	in Cao (曹健林)	
Welcome	Tian	chun Ye (叶甜春)	
Address		iu (刘旭)	
ridaress	1	Fijimori	
		zhan Zhou (周文湛)	
09:00-10:05		ary Session I	
03.00 10.00		r: Wenzhan Zhou	
		utes Q&A for each talk	
09:00-09:35		lang Lei (Seimens):	
		NOTE) TBD	
00.05.40.40		Fujimori (Fujifilm):	
09:35-10:10			otoresist development for stochastic
	redu	ction	
10:10-10:40	Grou	ıp Photo & Coffee Breal	k
10:40-12:30	Adva	anced Photoresist Session	on

	Chair: Tori Fujimori & Bing Li 李冰
	5 minutes Q&A for each talk
	Guoqiang Yang (ICCAS):
10:40-11:05	(INVITED) The Research and Development of Ultra-High-Resolution
	Resists
11:05-11:30	Feng Luo (Nankai University):
11.00 11.00	(INVITED) EUV Photoresist for Advanced 0.55NA Lithography
	Feng Xu (Pibond):
11:30-11:50	Resist and underlayers – recent developments in material, patterning
	and pattern transfer processes
11:50-12:10	Chunxiao Mu (HUST):
	Wiener-Padé Model for Lithographic Resist Modeling
10:10:10:40	T T.
12:10-13:40	Lunch
DAY 1-After	noon
DAT I-AITEL	
13:40-15:30	Plenary Session II
	Chair: Guoqiang Yang 杨国强 & Shiyuan Liu 刘世元
	5 minutes Q&A for each talk
10 40 14 15	Hong Xiao (ASML):
13:40-14:15	(KEYNOTE) SEM signal enhancement of buried patterns and buried defects
	Yong Wang (Shanghai Advanced Research Institute):
14:15-14:40	(INVITED) EUV actinic reticle inspection beamline at Shanghai
14:13-14:40	Synchrotron Radiation Facility
	Xiaosong Liu (USTC):
14:40-15:05	(INVITED) Hefei Light Source – the Low Energy Synchrotron Facility
14.40-15.05	for EUV-Lithography Research
	Byoungho Lee (Hitachi High-tech):
15:05-15:30	(INVITED) MI's new challenges and approaches
	(
15:30-15:50	Coffee Break
2.2.2.2.2	
4	Advanced Computational Lithography Session
15:50-17:30	Chair: Yaobin Feng 冯耀斌 & Weimin Gao 高伟民
	5 minutes Q&A for each talk
	Qiang Wu (Fudan University):
15:50-16:15	(INVITED) A SMO Software Designed for Today and Tomorrow's
	High-end Integrated Circuit Manufacturing Processes
16.1E 16.40	Jiang Yan (NICIC):
16:15-16:40	(INVITED) Thoughts Given to Optical Proximity Correction (OPC)
16:40-17:05	Xu Ma (BIT):
10:40-17:05	(INVITED) Advanced Computational Lithography based on

	Information Theory
17:05-17:30	Kan Zhou (Shanghai Huali): (INVITED) Silicon Process Characterization Based on Massive SEM Contour Extraction and Hotspot Pattern Decomposition
	Control 2 Manual 1100 Con 1 Miles 12 Con 1 Con 100 Con
17:30-18:30	Poster Session Authors should be present at your poster.
18:30-20:30	Welcome Banquet for all attendees 晚宴 (JIAHE Grand Ballroom 嘉禾厅)

Day 2:	
16 Oct. 2024 (Wednesday) —— Parallel Session I, 并行报告会场 I
JIAHE Grand	l Ballroom Part A,嘉禾厅 A
DAY 2-Morn	ing
08:30-10:20	Equipment Session
00.50-10.20	Chair: Jing Li 李璟 & Yun Zhan 詹云
	5 minutes Q&A for each talk
	Billy Tang (ASML-Cymer):
08:30-08:55	(INVITED) Sustainability & Availability Improvements from Light
	Source Technology Enhancements
	Yang Liu (Harbin Institute of Technology):
08:55-09:20	(INVITED) Motion control methods in high-end measuring
	equipment
09:20-09:40	Zhen MA (EDWARDS):
	Lithography Vacuum and exhaust gas management for EUV high NA
00 40 40 00	Jibin Leng (Hangzhou Cobetter Filtration Equipment Co., Ltd.):
09:40-10:00	New Polyethylene Filter Development for Next Generation
	Lithography Sebastian Vollmar (Carl Zeiss SMT GmbH):
10:00-10:20	MeRiT® MG neo – a new Photomask repair solution for the mature
10.00-10.20	market
	market
10:20-10:40	Coffee Break
10.20-10.40	Correct Break
	Mask Session
10:40-12:10	Chair: Lifeng Duan 段立峰
	5 minutes Q&A for each talk
	Hong Chen (Shenzhen GWX Technology Co.):
10:40-11:10	(INVITED) Significance Investigation on Thickness Effects of Mask on
	28nm Node and Below
	Dejian Li (Uni Semiconductor Corp):
11:10-11:30	(INVITED) Evaluation of Lithography Printability Review in Mature
	Node Photomask Manufacturing

11.20 11.50	Shuying Deng (Sun Yat-sen University):
11:30-11:50	Development of a synchrotron-based EUV microscope for actinic mask inspection
	1
11.50 12.10	Fu Li (Beijing Superstring Academy of Memory Technology):
11:50-12:10	Optimizing Mask Manufacturability and Image Quality: Exploring
	Variable Fracture Sizes in Inverse Lithography
12.10 14.00	Turnal
12:10-14:00	Lunch
DAY 2-After	noon
DAT 2-AITEL	
14:00-15:30	Metrology and Inspection Session
	Chair: Jiangliu Shi 师江柳
	5 minutes Q&A for each talk
14.00.14.05	Youngsu Kim (KLA):
14:00-14:25	(INVITED) Broadband Optical Wafer Inspection for Process Control:
	Industry challenges and Technology inflections
44.05.44.50	Yuanliu Chen (Zhejiang Univ.):
14:25-14:50	(INVITED) In-process measurement and control for ultraprecision
	cutting
14:50-15:10	Qiuping Nie (Yuwei Semi. Tech.):
	Method for Improving Overlay Accuracy
45 40 45 90	Qimeng Sun (the Fifth Electronic Research Institute of MIIT):
15:10-15:30	Non-destructive measurement of temperature in the micro-area wafer
	using Mueller matrix spectroscopic ellipsometry
15:30-15:50	Coffee Break
15:50-15:50	Coffee Break
	Other Lithography and Process Session
15:50-16:55	Chair: Shisheng Xiong 熊诗圣
	5 minutes Q&A for each talk
	Jie Liu (Hunan Univ.):
	(INVITED) A Hybrid Proximity Effect Correction Method based on
15:50-16:15	Separation of Forward-/Back-Scattering and Cumulative Distribution
	Function
	Jianguang Xian (JiTong Technology Guang Zhou Co,):
16:15-16:35	Extended Theoretical Review of a new approach of Lithography at nm
10.13-10.33	Resolution
	Bo Feng (Hunan University):
16:35-16:55	All-dry wafer thinning and Ru-filled nanoTSV-Middle processing for
10.55-10.55	Backside Power Distribution
	Ducholae I Owel Distribution
	Closing Plenary Address 闭幕致辞
16:55-17:00	Chair: Wenzhan Zhou, Yayi Wei
	Chan. Trenzhan Zhou, Tayi Ttei

Day 2:		
16 Oct. 2024 (Wednesday) —— Parallel Session II, 并行报告会场 II		
JIAHE Grand Ballroom Part B,嘉禾厅 B		
DAY 2-Morn		
08:30-10:20	Computational Lithography Session	
	Chair: Qiang Wu 伍强 & Sikun Li 李思坤	
	5 minutes Q&A for each talk	
	Yijiang Shen (GUST):	
08:30-08:55	(INVITED) Inverse lithography with adaptive threshold	
	regularization	
	Qi Wang (Fudan Univ.):	
08:55-09:20	(INVITED) Source-Mask Co-Optimization Study for Typical EUV	
	Design Rule Patterns with 40 nm Minimum Pitch	
	Miao Yuan (BIT):	
09:20-09:40	Pupil wavefront optimization technology for extreme ultraviolet	
	lithography	
	Pinxuan He (HUST):	
09:40-10:00	(INVITED) Linearized EUV mask optimization based on the adjoint	
	method	
	Ying Li (Fudan Univ.):	
10:00-10:20	Source-Mask Co-Optimization Study for 7 nm Metal Layer Patterns	
	with 80 nm Minimum Pitch	
10:20-10:40	Coffee Break	
10:40-12:10	AI Driven Lithography Session	
	Chair: Xu Ma 马旭 & Yijiang Shen 沈逸江	
	5 minutes Q&A for each talk	
10 40 11 05	Shengrui Zhang (DJEL):	
10:40-11:05	(INVITED) PanGen DMC: AI powered solution for fast design	
	manufacturability check	
11:05-11:30	Haizhou Yin (Siemens EDA): (INVITED) Monotonic Machine Learning for Retargeting Layer	
11.05-11.50	Generation by Leveraging Contour-Based Metrology	
	Ying-chen Wu (ASML Brion):	
11:30-11:50	GAOPC Improves OPC Parameter Search Efficiency and	
11.00 11.00	Convergence Speed	
	Haibin Yu (Huali):	
11:50-12:10	SONR based gauge down sampling for OPC model calibration	
	1 0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
12:10-14:00	Lunch	
DAY 2-Aftern	1 <mark>100n</mark>	
14:00-15:25	Design and Process Session	

	Chair: Xiaodong Meng 孟晓东 & Jacky Cheng
	5 minutes Q&A for each talk
	Cai Chen (AMEDAC):
14:00-14:25	(INVITED) The Application of Multiple Patterning Solutions Based on
	Process Window Analysis in Lithography
	Chang XU (JHICC):
14:25-14:45	From 1D-Spot to 2D-Plain: A Computer Vision Based Comprehensive
	Approach for Process Window Qualification
	NanNan Zhang (GalaxyCore Semiconductor Limited):
14:45-15:05	A method of Combing Optical Proximity Correction and Design
	Layout Optimization to Improve Process Window
	Jiwei Shen (East China Normal University):
15:05-15:25	Large-scale chip layout pattern clustering method based on graph
	matching
	· ·
15:25-15:45	Coffee Break
15:45-17:05	Process and Simulation Session
15:45-17:05	Chair: Feng Shao 邵峰
	5 minutes Q&A for each talk
	Yuyang Bian (Huali):
15:45-16:05	Edge Placement Error Analysis Through Backscattered Electron
	Imaging
	Fuxun Chen (Zhejiang Univ):
16:05-16:25	Achieving High-Accuracy and Noise-Robust Process Window
	Analysis through Stepwise Regression
	Kan ZHOU (Huali):
16:25-16:45	Evaluation of Hotspots EPE Propagation Through Step-by-Step SEM
	Contour Analysis
	Yuxing Zhou (Beijing Superstring Academy of Memory
16:45-17:05	Technology):
	Spider mask reticle heating impact to on product overlay
	S. W. A. O.
17:05-17:10	Closing Plenary Address 闭幕致辞
27.00 17.10	Chair: Wenzhan Zhou, Yayi Wei

Agenda is subject to change

Poster Session		
15 Oct. 2024		
	utdoor of JIAHE Grand Ballroom 宴会厅前廊	
IWAPS2024- P-01	CHIH-LI(Julius) Chen, Ting Wang, Jifeng Miao, He Li, Changqi Sun, Dawen Yang, Pinhong Lin, Xiaodong Meng (Rong Semiconductor Co., Tsinghua Univ., AMEDAC) An effective Methodology of filter, measure and align SEM image in model calibration	
IWAPS2024- P-02	Xinyuan Zhang, Miaohong Yao, Shibin Xu, Kun Ren, Yongyu Wu (Zhejiang ICsprout Semiconductor, Zhejiang Univ. Siemens EDA) SEM contour extraction application on opc model of CT layer	
IWAPS2024- P-03	Ruixiang Chen, Yang Zhao, Rui Chen (Sun Yat-sen University) Inverse lithography based on a physics-driven deep learning approach	
IWAPS2024- P-04	Yongkang Liu, Wei Zhao, Ruixiang Yan, Kai Ni, Yuandong Gu, Jianlin Li (Shanghai University, Shanghai Melon Technology Co., Shanghai Industrial µTechnology Research Institute) Research on Optical Proximity Correction with Embedded Coordinate Convolution Module	
IWAPS2024- P-05	Dion King, Ying Zhang, Qijian Wan, Ruizuo Hou, Shiwei Zhang, Chunshan Du (Huahong Grace Semiconductor Manufacturing Corporation, Siemens EDA) A Fully Automatic and Generic Method for Classifying Repeating Array Designs	
IWAPS2024- P-06	Liuye Meng, Kun Ren, Yongyu Wu, Dawei Gao, Zheju Yan (Zhejiang University, Zhejiang ICsprout Semiconductor Co.) Fast Layout Pattern Matching Using Spatial Indexing	
IWAPS2024- P-07	He Yang, Miao Yuan, Zhaoxuan Li, Zhen Li, Yanqiu Li (Beijing Institute of Technology) Fast curvilinear optical proximity correction adopting quasi-uniform B-spline curves	
IWAPS2024- P-08	Zhen Li, He Yang, Miao Yuan, Zhaoxuan Li, Yuqing Chen, Yanqiu Li (Beijing Institute of Technology) Fast lithographic source optimization adopting RMSProp with iterative shrinkage-thresholding algorithm compressive sensing for high fidelity patterning	
IWAPS2024- P-09	Zhilong Zhong, Jiamin Liu , Hao Jiang, Honggang Gu, Shiyuan Liu (Huazhong University of Science and Technology) EUV Lithography imaging modeling and calculation based on full-vector beam propagation method	
IWAPS2024- P-10	Zhaoxuan Li, Miao Yuan, He Yang, Zhen Li, Yuqing Chen, Yanqiu Li (Beijing Institute of Technology) Enabling Source and mask optimization by creating a dynamic aberration model	

IWAPS2024- P-11	Hongye Gao, Linqiang Ye, Jingfeng Kang, Wei Li, Aijiao Zhu, Xuanyu Ta, Jincheng Pei, Kevin Huang (Peking Univ., Semiconductor Manufacturing Beijing Corporation, KLA) Implementation of a Versatile and Efficient Monitoring System in Semiconductor High-Volume Manufacturing
IWAPS2024- P-12	Di Liang, Hao Yang, Yufei Sha, Yuxing Zhou, Jiahao Xi, Enqiang Tian, Mingyi Yao, Ganlin Song, Jiangliu Shi, Miao Jiang (Beijing Superstring Academy of Memory Technology) A study of aerial image NILS and exposure energy as improvement factors for LER
IWAPS2024- P-13	Yogev Baruch, Shuo Liu, Shu Lu, Shalev Dror, Zhenyu Wu (Zeiss) ZEISS ForTune provides Intra-Field solutions at High Lateral Resolution for CDU and Overlay to increase IC manufacturing performance
IWAPS2024- P-14	Jiwei Shen (East China Normal University, Huali) Photolithographic Image Prediction Using Weak Supervision and Feature Encoding
IWAPS2024- P-15	Yongyu Wu, Miaohong Yao, Shibin Xu, Kun Ren, Dawei Gao, Xiaoci Li, Qijian Wan, Chunshan Du (Zhejiang University, Zhejiang ICsprout Semiconductor Co., Siemens EDA) Accurate SEM Contour-Based Measurement and Analysis of SRAM Patterns for Enhanced Design Optimization
IWAPS2024- P-16	Kunyang Li, Jinjiang Fu, Shuying Deng, Zhou Zhou (Institute of Advanced Science Facilities, Sun Yat-sen University) Application of Wiener Filter in Mask Detection
IWAPS2024- P-17	Shengru Niu, Yiming Xu,Jing Zhou,Yichen Zhang, Weixuan Zeng,Shisheng Xiong (Fudan University, Zhangjiang laboratory) Measurement and Analysis Algorithm for Sub-30 nm Patterns of Hexagonal Arrays in Microphotography
IWAPS2024- P-18	Zheng Lan, Wei Zhao, Xiupeng Shi (Shanghai University) Advancing Semiconductor Defect Detection with Integrated Deep Learning and Color Scale Preprocessing
IWAPS2024- P-19	Hao Yang, Di Liang, Yuxing Zhou, Jiahao Xi, Enqiang Tian, Mingyi Yao, Ganlin Song, Jiangliu Shi, Miao Jiang (Beijing Superstring Academy of Memory Technology) The implementation of overlay compensation between multiple photo layers generated by a single mask
IWAPS2024- P-20	Hongye Gao, Linqiang Ye, Jingfeng Kang Lingyi Guo, Gaolin Mu, Jincheng Pei (Peking University, Semiconductor Manufacturing Beijing Corporation, KLA) Customized Metrology Target Design Against OPO Challenges
IWAPS2024- P-21	Botong Zhao, Yue Lu, Kan Zhou, Wenzhan Zhou (East China Normal University, Shanghai Huali Microelectronics Corporation)

	Integrated Circuit Defect Classification Based on Multi-layer Attention Mechanisms
	Xintong Zhao, Botong Zhao, Jiwei Shen, Hu Lu, Pengjie Lou,
IWAPS2024- P-22	Kan Zhou, Wenzhan Zhou (Shanghai Huali, East China Normal University) Machine Learning Based Using Layout to Generate Reference SEM
	Images for Defect Inspection
IWAPS2024-	Lin Du (Shanghai Huali)
P-23	OCD Accuracy Improvement through Auto-TEM measurement
	Zhiping Mou, Kun Ren, Dawei Gao, Shibin Xu, Yanjiang Li,
*****	Chenwei Sun, Bo Pang (Zhejiang University, Zhejiang ICsprout
IWAPS2024-	Semiconductor Co.Ltd, Siemens EDA)
P-24	An efficient way towards massive CD-SEM metrology recipes based
	on Line Scan analysisrelease your hands
	Tao Wang, Changchang Zhuang, Guo Yang, Hanshen Xin, Lin Jiang,
IWAPS2024-	Jianhua Zhang (Shanghai University)
P-25	Interface engineering of underlayer of chemically-amplified EUV
	photoresists to enhance the photolithographic performance
IWAPS2024-	Xianguo Dong (Shanghai Huali)
P-26	Study on Interaction Between Bottom SIARC and Photoresisit
	Jinyuan Song, Jing Li, Qingchen Wang, Qingyang Zhang, Wenhe
IWAPS2024-	Yang (Zhejiang University, Northeastern University)
P-27	Data-Driven Prediction and Interpretation of Defect States in II-oxides
	wide-bandgap semiconductors
	Qingchen Wang, Jing Li, Qingyang Zhang, Jinyuan Song, Dazhong
IWAPS2024-	Ma (Zhejiang University, Northeastern University)
P-28	Prediction and Design of Sapphire Materials Using Deep Transfer
	Learning and Materials Informatics
	Pengyu Sun, Fazhi Song , Yang Liu, Jiubin Tan (Harbin Institute of
IWAPS2024-	Technology)
P-29	Frequency-domain Modeling-free Learning Control for Wafer Stages
	with Transient Improvement by Adaption
	Guo Yang, Lifang Wu, Tao Wang, Xingyang Wu, Shenghao Wang,
IWAPS2024-	Luqiao Yin, Zihan Wang, Lin Jiang, Jianhua Zhang (Shanghai University)
P-30	Vacuum cleaning of amorphous carbon using hydrogen plasma for
	EUV lithography
	Yuqing Chen, Yanbei Nan , Tong Li, Zhenkun Zhang , Yanqiu Li
IWAPS2024- P-31	(Beijing Institute of Technology)
	Allocation method of micromirror array for deep ultraviolet
	illumination system
	Wenhe Yang, Jing Li, Guanghua Yang, Jinyuan Song (Zhejiang
IWAPS2024- P-32	University)
	Potential Application of Mueller Matrix Spectroscopic Ellipsometry
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	for Alignment in Advanced Lithography
	Yingxiao Li, Zhinan Zeng (Shanghai Institute of Optics and Fine
IWAPS2024-	Mechanics)
P-33	Study on EUV mask blank inspection with multi-wavelength high
	harmonic generation EUV source
	Hongwei Huang, Haolan Wang, Yuyang Liu, Sikun Li (Shanghai
IWAPS2024-	University, Shanghai Institute of Optics and Fine Mechanics)
P-34	TransUNet-Based End-to-End Proximity Effect Correction for
	Electron Beam Lithography
IMA DCOOM	Biao Wang, Qiancheng Wang, Bo Feng (Hunan University)
IWAPS2024-	Dummy-filled nTSV-first Process and Its Application in Backside
P-35	Power Delivery Networks (BSPDN)
IIA/A DC2024	Kaisheng Chen (Shanghai Optical Lithography Engineering Corp.)
IWAPS2024-	Fresnel Diffraction by Rectangular Aperture: A Non-approximate
P-36	Integral Theorem and Aperture Pattern Correction
IWAPS2024-	Hongbin Chen, Feifeng Huang, Qiancheng Wang, Biao Wang, Bo
P-37	Feng (Hunan University)
1-37	Low Temperature Oxidation for nanoTSV-last Process in BSPDN
	Zhao Chen, Feifeng Huang, Biao Wang, Qiancheng Wang, Bo Feng
IWAPS2024-	(Hunan University)
P-38	Atomic Layer Deposition of Ru in nanoTSV for Low- resistivity
	Electrical Connections
	Feifeng Huang, Qiancheng Wang, Biao Wang, Bo Feng (Hunan
IWAPS2024-	University)
P-39	Enabling Backside Interconnects for Power Delivery Via High-
	Precision Integration of nTSV-middle with the Buried Power Rails
****	Jingyu Chen, Puzhen Li, Yudan Su, Weixuan Zeng, Shisheng Xiong
IWAPS2024-	(Fudan University, Zhangjiang laboratory)
P-40	Integration of Deep Learning for Nonlinear Spectral Decomposition
	of in Situ interfaces Analysis
	Zhiyong Wu, Jiacheng Luo, Qingshu Dong, Jiaxiang Li, Xingran Xu,
IWAPS2024-	Zili Li, Weihua Li, Yan Zhang, Shisheng Xiong (Fudan University,
P-41	Zhangjiang laboratory)
	Quadruple hole multiplication by Directed Self-assembly of Block
	Copolymer
IWAPS2024- P-42	Jiacheng Luo, Zhiyong Wu, Zili Li, Yan Zhang, Shengxiang Ji,
	Shisheng Xiong (Fudan University, Zhangjiang laboratory,
	Changchun Institute of Applied Chemistry)
	Influence of sidewall affinity on the directed self-assembly for contact
	hole multiplication Kangnang Huang Wanhao Wang Jiacang Zhao Siyu Fang
IWAPS2024-	Kangpeng Huang, Wenhao Wang, Jiacong Zhao, Siyu Feng, Zhaoyang Lan, Zhensheng Zhang, Xuefeng Song, Dapeng Yu
P-43	(Southern University of Science and Technology, Shenzhen
1 -43	Institute for Quantum Science and Engineering, Hefei National
	momute for Quantum ocience and engineering, never National

	Laboratory)
	Application of path planning in vector scanning electron beam
	lithography
	Eddy Liu, Steven Zeng, Fangyi Shi, Yue Li, Terry Pan, and Jinbo Liu
IWAPS2024-	(Cansemi, Optimlitho)
P-44	Rigorous Simulation for Impact of Wafer Topography on Critical
	Dimension
IWAPS2024-	Xin Sun, Jun Ke,and Xu Ma(Beijing Institute of Technology)
P-45	Thermal Microscopic Imaging based on Diffusion Models for Super-
r-43	resolution Inspection
IWAPS2024-	Ziqi Li, Lisong Dong, Xiaojing Su, Wei Zhao, Yayi Wei, Lijie Zhang
P-46	(IMECAS, UCAS, STIC)
	A fast method for aerial image blur evaluation
IWAPS2024- P-47	Jingjing Li, Yi Tong, Guangjian He, Junyu Lu and Yu Wang (GIICS)
	A methodology for random placement of unit patterns to identify
	potential design and process optimizations

Agenda is subject to change For update agenda and further information, please visit the website: www.iwaps.org