



Detailed Program

October 28 (Sat) Opening Ceremony & Keynote Lecture

Opening Ceremony		
09:00-09:50		1F, Sun Yun-Suan Lecture Hall

Keynote Lecture 1		
09:50-10:30		1F, Sun Yun-Suan Lecture Hall
09:50-10:30	A More Perilous Research Scene	Fred Y. Phillips

Keynote Lecture 2		
11:00-11:40		1F, Sun Yun-Suan Lecture Hall
11:00-11:40	The Politics of Technological Change	Scott Cunningham

October 28 (Sat) 13:00-15:40

Oral Session 1		
Firms and Innovation		
13:00-14:20		1F, Sun Yun-Suan Lecture Hall
Session Chair	Byung Gwun Choy	
13:00-13:15	D1	Nonconvergence of Sustainability and Real Growth in the Software Industry: Effects of Peter Pan Syndrome Byung Gwun Choy
13:15-13:30	D2	The Co-evolution of Startups and Startup Accelerators Ching-Yan Wu
13:30-13:45	D3	Technological acquisition and innovation performance: The moderation effects of knowledge leverage Chia-Hung Wu
13:45-14:00	D4	Navigating Innovation Mechanisms in Sustainable Business Model: A Comparative Study of Japan and Taiwan Li-Hsiang Yi
14:00-14:15	D5	When Two Heads Become Better than One: Co-Innovating into a Nascent Industry Dan-Wei (Marian) Wen

Oral Session 2		
Firms and Innovation		
14:20-15:40		1F, Sun Yun-Suan Lecture Hall
Session Chair	Byeongwoo Kang	
14:20-14:35	D6	The determinants of parallel invention: Measuring the role of information sharing and personal interaction Byeongwoo Kang
14:35-14:50	D7	Complementary-in Use Appropriability Strategy: Evidence from Knowledge Intensive Business Services in Taiwan Min-Nan Chen
14:50-15:05	D8	A CURSE IN DISGUISE: HOW TECHNOLOGICAL SUPERIORITY BECOMES THE WINNER'S CURSE Chia-Chi Chang
15:05-15:20	D9	Firms R&D signalling strategies: Firms' Knowledge Disclosures through Websites and Patents Arash Hajikhani
15:20-15:35	D10	Exploring the Structure of Innovation Ecosystem: The Application of Semiconductor Industry Granted Patents Tsung-Han Ke



TFSC Special Issue Development Workshop (by invitation only)		
13:00-15:40		6F, Sun Yun-Suan Memorial Center
Session Chair	Mei-Chih Hu, Scott Cunningham, Hao Tan, Jin-Su Kang	
13:00-15:40 Small Group Discussion	1	Scientific collaboration amid geopolitical tensions: Global variation in responses to China engagement Tommy Shih
		The Geopolitics of Biotech Innovation for Small Powers: Cases of Taiwan and Singapore Shih Hsin Chen
		Exploring geopolitics-technology complexity through attraction-repulsion network model Nazrul Islam
		Geopolitics - National Technology Security and National Technology Competitiveness Li-Jung Wang
	2	The Geopolitics of US-China Technology War: A Perspective of Scenario Forecasting Chia Hui Yu
		Innovating in Times of Crisis: Public Health Emergencies, National Security, and the Anti-Affordance Effect Fabio Rocha
		How and When Geopolitical Risk Affect Export of Semiconductor? Case of South Korean Memory Industry Hyunjin Lee
		Exploring the Linkage between Dynamic Capabilities and Adaptability in the Contemporary Geopolitical Age Mingqiang He
	3	Metaverse Diplomacy Exploring the Geopolitical Implications of Virtual Worlds Varsha Arya
		Supply chain resilience construction under geopolitics: separating equilibrium decision from multi-level stakeholders Kae-Kuen Hu
		Taking stock of international technology cooperation in times of geopolitics: a small open economy perspective Matthias Deschryvere
		The Changes in U.S. Approach to Standardization in an Era of New Geopolitics Mi-jin Kim
	4	Mitigating the Impact of Geopolitical Risk on MNEs' Employer Attractiveness: The Role of Government Policies Anthony Kuo
		The Influence of Robotic Process Automation (RPA) on the workplace environment in a changing Geopolitical Landscape Maria Teresa Del Val
		Geopolitical Shocks and Digital Innovation in China: A comparative Study of YunOS and HarmonyOS Jiwei Qian
		The Evolutionary Trajectory of EV Battery Cathode Material Technology under New Geopolitics Adam Kao-Wen Weng
4	Industrial policy for technological sovereignty in the context of shifting geopolitical power balance Alexis Habiyaemye	
	Divided World and Competition around the Global Value Chains of the semiconductor: Separation strategy of Korea and Taiwan vs. Leapfrogging Strategy by China Chan Yuan Wong	
		What is the emerging industry? Focusing on emerging service industries Guijung Kim



Oral Session 3 New Products and Market

13:00-14:20		1F, Room 103
Session Chair	Chih Hsuan Wang	
13:00-13:15	G1 Using text mining to enhance sentiment analysis and product assessment for smartphone brands: Apple and Samsung	Chih Hsuan Wang
13:15-13:30	G2 Cost-effectiveness comparison between blood biomarkers and conventional tests in Alzheimer's disease diagnosis	Kenta Noda
13:30-13:45	G3 Solutions for Social Implementation of Digital Health Platform: A Case Study of d-Case MASTER	Tomohiro Sugino
13:45-14:00	G4 More Walmart comes to town! What should grocery stores do?	Pei Yu Chien
14:00-14:15	G5 Patenting, New Product Development and Firm Performance in Technology-based Start-ups	Cheng-Hsin Chiang

Oral Session 4 Climate Change, Firms and Innovation

14:20-15:40		1F, Room 103
Session Chair	Amy Trappey	
14:20-14:35	B11 Smart mobility in India and Taiwan: A sustainability perspective	M C Minimol
14:35-14:50	B12 The role of Renewable Energy, Human Capital, and Economic Development on Load Capacity Factor	Makesh K G
14:50-15:05	D46 Cognitive Ambidexterity, Ambidextrous Leadership, and Innovation: The Moderate Effect of Education and Experience Complexity	Yu-You Chen
15:05-15:20	D47 Technological exploration in family firms: a learning journey for the prince before taking the crown	Dung Nguyen
15:20-15:35	D48 An alternative disruptive innovation: Lessons from the Digibionic hearing-aid company	Chih Hsien Wu



Oral Session 5 Foresight			
13:00-14:20			1F, Room 120
Session Chair	Fang-Mei Tseng		
13:00-13:15	C1	Forecast of development trends in China's intelligent vehicle industry	Fang-Mei Tseng
13:15-13:30	C2	Unlocking Hydrogen-Powered Europe: The Perspective of Technology Readiness Level in the EU's Hydrogen Value Chain	Chen-Chun Lin
13:30-13:45	C3	How Predictable of Technology Trajectory: The Application of Semiconductor Industry Granted Patents	Tsung-Han Ke
13:45-14:00	C4	Value creation as a new knowledge in Fintech: a systematic review and research implications	Oyunmaa Enkhtuvshin
14:00-14:15	C5	Conceptualizing Resilient Areas: Cases of Rural Agro-Based Clusters in Taiwan and Malaysia	Zhao Yen Beh

Oral Session 6 Foresight			
14:20-15:40			1F, Room 120
Session Chair	Suresh Malodia		
14:20-14:35	C6	Navigating Post-Pandemic Geopolitical Challenges: Strategies for Sustainable Growth	Suresh Malodia
14:35-14:50	C7	Blockchain adoption for medical tourism - A Thailand & Taiwan comparison case	Chih-Hung Hsieh
14:50-15:05	C8	Green Transformation Foresight: From EPS to ESG by Exploring a New Perspective on Sustainability Performance	Tung-Shan Liao
15:05-15:20	C9	Predicting critical technologies using technology phylogenetic tree: the case of CCUS technologies	Sungjun Choi
15:20-15:35	A1	IDENTIFICATION OF TECHNOLOGIES RELATED TO CYBERSECURITY	Marina Dabić



Oral Session 7 Firms and Innovation			
13:00-14:20			1F, Room 104
Session Chair	Raj V Mahto		
13:00-13:15	D11	Diversification Strategy that Affects Performance During Global Crisis: Evidence of Taiwan's Top 100 Public Manufacturers	Hansen Derrick
13:15-13:30	D12	A multi-level analysis of green human management on green innovative work behavior	Yi-Chun Huang
13:30-13:45	D13	The Relationship Between Sustainable Marketing Corporate Image and Customer Loyalty : Interference Effect of Green Involvement	Ju Hui Weng
13:45-14:00	D14	Predicting Radical Innovation for Firms Based on Deep Learning	Siyong Lee
14:00-14:15	D15	Fostering R&D Training in the Workplace through Government Subsidies	Chi Hung Fu

Oral Session 8 Firms and Innovation			
14:20-15:40			1F, Room 104
Session Chair	Hui-Fen Chen		
14:20-14:35 Withdraw	D16	Global value chains and the new era of technology controls in US-China relations	Mark Dallas
14:20-14:35	D20	Exploring the Impact of Team Diversity on Team Decision Making and Performance in Work-From-Home Settings	Yung-Chun Wang
14:35-14:50	D17	Mission-based entrepreneurship: Cultivation of purpose, identity, and a sense of mission	Hui-Fen Chen
14:50-15:05	D18	Adaptive innovation strategies in an uncertain economy	Alba Yela Aranega
15:05-15:20	D19	Venture Capital Risk-Sharing, Startup Innovation, and Government Subsidy Moderation	Guijung Kim
15:20-15:35	-	-	-



MOT Special Issue (Mandarin Session)		
13:00-15:40		2F, Room 203
Session Chair	Feng-Shang Wu, Benjamin Yuan	
13:00-13:12	Enhancing E-commerce Warehouse Efficiency through Demand Forecasting and Cluster-based Storage Allocation: An Application in Inventory Management and Storage Structure Optimization	Li-Yi Liu, Wei-Kang Liang, Po-Yu Huang, Chuan-Min Chien, Chen-Yang Cheng, Yu-Ting Hsu
13:12-13:24	Forecasting Semiconductor Industrial Development in 2035 with Scenario Analysis	Chu-Yun Teng, Chih-Hung Hsieh
13:24-13:36	A Straw Shows which Way The Wind Blows: The Benefits and Development of Prognostic and Health Management (PHM)	Forrence Hsing-Hung Chen, Fu-Yu Yang
13:36-13:48	An Offshore Wind Energy-Based Study of Forecasting Patent Portfolio Trends via Main Path Analysis	Chih-Hung Hsieh, Luis Y.Y. Lu, Chien-Hue Lin
13:48-14:00	Discussion	Hsin-Ning Su
14:00-14:20	Break	
14:20-14:32	Analysis of Coopetition between Intel and AMD by Bass-Lotka Volterra Model: Toward A General Prediction Model of Innovation Diffusion and Industrial Dynamics	Mu-Yen Hsu, Wei-Che Kao, Shu-Hua Li, Yu-Wen Chiu
14:32-14:44	A Hybrid Fuzzy Inference System: Empowering Industry 4.0 by Its Application –The Technique Prediction of Recipe Simplification based on Smart Manufacturing	Shin-Jye Lee, Sirirat Sae Lim
14:44-14:56	Innovation Diffusion Models of Streaming Media Service: A Case Study of Netflix and Spotify	Wei-Ying Chen, Chieh-Yi Liu, Hsin-Yi Hu, Chien-Hsin Wu
14:56-15:08	The Technology Development Trends of Cloud Computing Technology	Fang-Mei Tseng, Sheng-Chieh Chen
15:08-15:20	Discussion	Ming-Yeu Wang

University-Industry Cases Workshop (Mandarin Session)		
產學個案研討會		
13:00-15:40		2F, Room 204
13:00-14:20	產學合作模式分享—產學合作是個案研究的起點	Sheng-Tsung Hou
	產學合作案例轉為研究—如何將案例轉為個案研究	Ching-Fang Lee
14:20-15:40	如何善用 chatgpt 優化你的案例—1000 字模板分享	Vin Wu
	產業管理論壇—綜合討論	Mei-Chih Hu



Oral Session 9 Emerging Technology			
13:00-14:20			2F, Room 224
Session Chair	Mei H.C. Ho		
13:00-13:15 Move to Oral Session 6	A1	IDENTIFICATION OF TECHNOLOGIES RELATED TO CYBERSECURITY	Marina Dabić
13:00-13:15	A5	Sportstech hits a home run? Digital technologies adoption for the future of baseball in Taiwan	Ming-Yung Su
13:15-13:30	A2	A Qualitative Performance Analysis of Technological Innovation between Countries: Focusing on the AI-based Service	Yeongwha Sawng
13:30-13:45	A3	The emergence of the global artificial intelligence market: new startups and its determinants	Chun Hsien Wang
13:45-14:00	A4	Global patent mining of smart EV charging networks with case study in a tech-savvy economy	Chun-Yen Ou
14:00-14:15	-	-	-

Oral Session 10 Emerging Technology			
14:20-15:40			2F, Room 224
Session Chair	Chun-Ping Yeh		
14:20-14:35	A6	Processual Approach: Deskillling/Reskillling in Platform Economy Services	Naubahar Sharif
14:35-14:50	A7	Explore the Impact of Omnichannel Touchpoints on Customer Purchase Intention	Chin Ching Yin
14:50-15:05 Withdraw	A8	Unraveling the Complexity of Innovation Ecosystems: Identifying Emerging Technologies through University-Centric Networks	Po-Hsuan Chen
14:50-15:05	A10	Innovation Ecosystem of Emerging Technologies: LEO Satellite Case through Main Path Analysis	Lee-Ting Cho
15:05-15:20	A9	Evolution or revolution? Exploring the emergence of Taiwan's sports technology innovation ecosystems	Ming-Yung Su
15:20-15:35	-	-	-



Oral Session 11			
Online-National Policies, Foresight			
13:00-14:20			5F, Room 506
Session Chair	Cheng-Yu Lee		
13:00-13:15	OE1	What kind of urban public services do immigrant entrepreneurs with different educational backgrounds value more?	Hao Jiao
13:15-13:30	OE2	What Configurations for the Doing Business Environment Contribute to Firms' Digital Transformation?	Xu Chu
13:30-13:45	OE3	Certification effect of central and local research and development subsidies on external financing enterprises	LinLin Zhang
13:45-14:00	OE4	Does Local Government Matter for Regional Digital Transformation: Regional Innovation Ecosystem Perspective in China	Siyi Pu
14:00-14:15	OC1	Technological forecasting incorporating geopolitical factors based on graph neural network	Jiaying Liu

Oral Session 12			
Online-Foresight			
14:20-15:40			5F, Room 506
Session Chair	Chi-Mao Wang		
14:20-14:35	OC2	Estimation and Forecast of Carbon Emission Market Volatility Based on Model Averaging Method	Qianchao Wang
14:35-14:50	OC3	A supernetwork-based approach for forecasting technology convergences	Junwan Liu
14:50-15:05	OC4	Discovering potential application areas for technology using function-based SAO semantic analysis	Yali Qiao
15:05-15:20	OC5	Win, Lose, or Draw? Forecasting the Outcome of Dominant Design Races with Machine Learning	Haiwen Dai
15:20-15:35	OC6	The Trends Social and Technological Changes of China Brought by its CCUS Policy Instruments	Yuan Yuan Liu



Oral Session 13			
Online-New Products and Market			
13:00-14:20			5F, Room 548
Session Chair	Ker-Hsuan Chien		
13:00-13:15	OG1	How Does Technology Diffuse in Asymmetric Competition Networks?	MengYuan Lv
13:15-13:30	OG2	Shackles or Booster : the Contingency Effect of Technological Decoupling on Disruptive Innovation	YaYu Yang
13:30-13:45	OG3	How do Chinese State-owned Private Equities Choose Co-investment Partners? An Empirical Study Using ERG Models	Jie Ren
13:45-14:00	OG4	Digital Transformation and Organizational Resilience ---Evidence from China's Manufacturing Industry	Yilan Ma
14:00-14:15	OG5	Can YouTubers predict the rise and fall of cryptocurrencies?	Kun Jia

Oral Session 14			
Online- Firms and Innovation, New Products and Market			
14:20-15:40			5F, Room 548
Session Chair	Pei Yu Chien		
14:20-14:35	OD33	The policy governance niche configurations for new energy vehicle industry: Evidence from China's listed companies	Tao Wang
14:35-14:50	OG7	How E-Commerce Ecosystems Achieve BOP Populations' Inclusive Innovation: A Configurational Study Based on Activity Theory	Leshan Peng
14:50-15:05	OG8	How Can the Datafication of Business Model Elements and their Governance Co-create Value?	Xue Zhang



Oral Session 15 Online-Emerging Technology

13:00-14:20		5F, Room 549
Session Chair	Yuya Kajikawa	
13:00-13:15	OA1	Growing by Combining: Technological Convergence in the Biochip Sector Qiuya Song
13:15-13:30	OA2	A Study of Technology Front Evolution Based on Dual Contradictions of Technology Scale and Potential Jingxian Gan
13:30-13:45	OA3	How do incumbents respond to 5G transition? The case of Chinese Firms' making connected cars Limeng Yu
13:45-14:00	OA4	Corporate Digitalization Brings Ethics? Yuan Feng
14:00-14:15	OA5	To Dictate or Authorize? Managerial Power and Corporate Productivity in Digit Era Yuan Feng

Oral Session 16 Online-Emerging Technology

14:20-15:40		5F, Room 549
Session Chair	Chung-Lin Tsai	
14:20-14:35	OA6	Technology life cycle identification framework based on the disequilibrium evolution characteristics Ziqi Zhang
14:35-14:50	OA7	A Recommendation Approach of Scientific Non-Patent Literature on the basis of Heterogeneous Information Network Xinyi Ma
14:50-15:05	OA8	Regional digital capability and green technology diversification: A study of provinces in China Suze Chen
15:05-15:20	OA9	Revisit Tech Mining: A Framework to Tracing the Evolution and Diffusion of Technological Analytics Tool Jia Yuan
15:20-15:35	OA10	Exploring technology evolution pathways based on link prediction on multiplex network: Illustrated as CRISPR Zizuo Cheng



Oral Session 17 Online-Firms and Innovation			
13:00-14:20		5F, Room 505	
Session Chair	Marina Dabić		
13:00-13:15	OD1	Digital Transformation and Strategic Risk Taking: A Dynamic Capability Perspective	Mengmeng Meng
13:15-13:30	OD2	Can Digitalized Linkages Promote Inter-organizational Collaboration ?	Xiaofei Wang
13:30-13:45	OD3	The "Midas touch" of innovation? An Empirical Analysis on Effectiveness and Comprehensive Benefits of TRIZ	Yao Wei
13:45-14:00	OD4	Resource-saving or environmentally friendly? Influence of environmental subsidy on enterprise green innovation preference research	LinLin Zhang
14:00-14:15	OD5	Green Strategy Orientation and Green Innovation in Enterprises: Based on Text Analysis and Machine Learning	Jing Wen Liang

Oral Session 18 Online-Firms and Innovation			
14:20-15:40		5F, Room 505	
Session Chair	Steven Walsh		
14:20-14:35 Withdraw	OD6	The effect of university-industry engagement on innovation- performance from intra-firm network collaboration- perspective	Xuanjin Chen
14:20-14:35	OD10	Open innovation of high-tech enterprises in China: taking innovation alliance in innovation ecosystem as an example	Xinyue Yan
14:35-14:50	OD7	Digitalization for Sustainable Development. How Can Digitalization Impact CSR Disclosure Quality ?	Tailun Chen
14:50-15:05	OD8	Environmental Policies Uncertainty, Political Connections and Corporate Green Innovations	Jixun Liu
15:05-15:20	OD9	Platform firms leverage complementary assets for collaborative innovation: The mediating roles of network orchestration capabilities	Xiying Zhao
15:20-15:35	-	-	-



October 28 (Sat) 16:00-17:20

Forum:	
Science, technology and innovation (STI) policymaking in a time of uncertainty	
16:00-17:20	1F, Sun Yun-Suan Lecture Hall
Moderator	Chan Yuan Wong
Panelists	Sarah Cheah -Singapore's public policy perspective for innovation
	Boon Kwee Ng -Malaysia's Social Innovation Agenda: Policy Insights into Tech-based Social Enterprises
	Byeongwoo Kang -Ready for resiliency?
	Tommy Shih -Geopolitical tensions and managing global scientific collaboration
	Scott Cunningham -Policies for the Strategic Use of Information



October 29 (Sun) Keynote Lecture

Keynote Lecture 3		
09:30-10:10		1F, Sun Yun-Suan Lecture Hall
09:30-10:10	Technology Rivalry and Changing GVC in the Era of De-globalization and New Cold War	Keun Lee

October 29 (Sun) 10:40-12:00

Meeting Editors		
10:40-12:00		1F, Sun Yun-Suan Lecture Hall
Journals	Technological Forecasting and Social Change	Mei-Chih Hu, Scott Cunningham
	Research Policy	Keun Lee
	Technology in Society	Marina Dabić
	Journal of Innovation & Knowledge	Juan Ramon Piñeiro Chousa
	Journal of Knowledge Management	Tachia Chin
	International Journal of Technology Intelligence and Planning	Nazrul Islam

Oral Session 20 Firms and Innovation

10:40-12:00		1F, Room 103
Session Chair	Sarah Cheah	
10:40-10:55	D26 Public-private technology collaboration in innovation	Sarah Cheah
10:55-11:10	D27 Innovation value chain in industrialized Asian economies	Sarah Cheah
11:10-11:25	D28 International Ambidexterity and Innovativeness of EMNEs: the Moderating Effect of Network Embeddedness	Chia-Ling (Eunice) Liu
11:25-11:40	D29 Investigating the competitive strategy of semiconductor industry through patent indicators	Hsin-Ning Su
11:40-11:55	D30 Formation of Effectiveness of Multi-Sector Alliance Network in Digital Health: A Case Study of Fitbit	Satoru Kikuchi



Oral Session 22 Climate Change, New Products and Market

10:40-12:00		1F, Room 120
Session Chair	Jack Cadeaux	
10:40-10:55	B1 External Social Benefits of Technology Enhancement: Portable Diesel Power Generation in a Developing Country	Jack Cadeaux
10:55-11:10	B2 Exploring the linkages of green digital transformation capability, ambidextrous green learning, and sustainable performance	Yi-Chun Huang
11:10-11:25	B3 Green Patent Integration: A Strategic Business Imperative	Ching Ying Yu
11:25-11:40	B4 Effects of organic policies on sustainability transitions of Taiwanese agricultural actors	Ming-Yeu Wang
11:40-11:55	G6 Cyber-Security Technologies Emergence, Adoption, and Diffusion from Evolutionary Perspective	Andrei Kucharavy

Oral Session 24 Firms and Innovation

10:40-12:00		1F, Room 104
Session Chair	Nobuya Fukugawa	
10:40-10:55	D31 Complementary effect of intangible assets and external sources of knowledge on labor productivity	Nobuya Fukugawa
10:55-11:10	D32 Entrepreneurial Orientation, Technology Portfolio Reconfiguration and Firm Performance	Ya-Hui Lin
11:10-11:25	D33 Comparative study of environmental and monetary policies in an R&D-based growth model	Yoshihiro Hamaguchi
11:25-11:40	D34 Institutional Effects and Multi-sided Platform Ecosystem Governance	Chung-Lin Tsai
11:40-11:55	D35 On the research Gaps of University-Industry collaboration with cases studies	Chao Chan Yu

TANDO Panel Session

10:40-12:00		2F, Room 203
Session Chair	Fred Y. Phillips	
Subject	Recognizing that technology and ideology jointly create social change, fellows of the NGO TANDO Institute open new avenues of thinking about global problems, evaluate promising technologies, and assess market opportunities, connecting these to advance the public good. Panelists will discuss their current work, especially as it applies to TANDO's mission and to the Institute's flagship project, the Gaiapolis.	
Panelists	Steven Walsh	
	Sehee Park	
	Ning Zhang	
	Fred Y. Phillips	



Oral Session 27			
Emerging Technology			
10:40-12:00			2F, Room 224
Session Chair	Chulung Lee		
10:40-10:55	A11	Technology Opportunities for EU Environment Regulation: Patent Semantic Analytics of Germany and France Automakers	Chulung Lee
10:55-11:10	A12	The Two Faces of Tomorrow: Artificial Intelligence as a Catalyst and Obstacle in Poverty Alleviation	Xaver Neumeier
11:10-11:25 Withdraw	A13	The academic evolutionary trajectory of EV battery cathode-material and electrolyte under new geopolitics	Adam Kao-Wen-Weng
11:10-11:25	A15	Leader Communication and Stakeholder Responses in Digital Era: Evidence from Twitter in the COVID-19 Pandemic	Evita Huai-Ching Liu
11:25-11:40	A14	Investigating the drivers in leading emerging technologies: An example of blockchain technology	Papimon Chantawongwanit
11:40-11:55	-	-	-

Oral Session 30			
National Policies			
10:40-12:00			2F, Room 223
Session Chair	Hon-Ngen Fung		
10:40-10:55	E1	Knock on effect of trade protectionism: palm oil in Malaysia	Hon-Ngen Fung
10:55-11:10	E2	Vaccine Nationalism	Hao Tan
11:10-11:25	E3	Taiwan Semiconductor Industry and Human Capital Flows	Hsinyu Yeh
11:25-11:40	E4	Investigation and discussion of hierarchical decision-making flows in national projects	Naoki Suyama
11:40-11:55	E5	The technological regime changes in the semiconductors industry: a network perspective for national technological development	Hung-Chun Huang



Oral Session 33

Online-Emerging Technology, Climate Change

10:40-12:00 5F, Room 549

Session Chair **Amandeep Dhir**

10:40-10:55	OA11	The Impact of Green GDP: An Empirical Examination based on MS-VAR	Zi Ying Chen
10:55-11:10	OA12	Industrial Digital Transformation in Innovation Ecosystem Perspective: A Case from China's Urban Rail Transit Industry	Yu Wang
11:10-11:25	OA13	Early identification of potential disruptive technologies using machine learning and topic model	Xin Li
11:25-11:40	OB1	Analysis of Convergence Trends in the Low-carbon Energy through Multi-energy Convergence Patent Knowledge Graph	Shuying Li
11:40-11:55	OB2	An Empirical Study on Attitudes and Consuming Motivations of China Z Generation Consumers	Yuan Yuan Liu

Oral Session 36

Online-Firms and Innovation

10:40-12:00 5F, Room 505

Session Chair **Dirk Meissner**

10:40-10:55	OD21	Can a demand-side structural revolution enhance supply-side enterprise innovation performance? Evidence from China's Healthcare Reform	Lu Chen
10:55-11:10	OD22	The Chinese pharmaceutical industry innovation performance and the effect of public R&D funding	Ruimin Pei
11:10-11:25	OD23	Context-driven innovation: an emerging paradigm for sustainable development in the digital era	Tailun Chen
11:25-11:40	OD24	The Influence of Bifurcation on the Development of Later-comer's Technology	Jiayi Wang
11:40-11:55	OD25	Fintech Ethics and "Good Innovation" of Inclusive Finance: Evidence from China	Jiamin Zhai



South East Asia Special Session

10:40-16:10

2F, Room 204

Session Chair **Boon Kwee Ng**

10:40-10:55	SEA1	The Impact of China's Import Restriction Policy: Evidence from Waste Imports in Southeast Asian Countries	Parinyakorn Paengsri
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10:55-11:10	SEA2	UNPACKING THE INTERCONNECTEDNESS BETWEEN MACROECONOMIC POLICIES AND SOCIOECONOMIC OUTCOMES	Warawut Ruankham
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11:10-11:25	SEA3	Impact of Big Data Analytics Capabilities and Knowledge Sharing on Corporate Environmental Performance and Eco-innovation	Pratsanee Na Keeree
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11:25-11:40	SEA4	A Comparative Study of Machine Learning Methods for Credit Card Fraud Detection	Dej-anan Bungkilo
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12:00-13:30

Lunch
Session Chair **Ching-Yan Wu**

13:30-13:45	SEA5	Impact of Knowledge Sharing, Innovation Speed and Opportunity Recognition on the Entrepreneurial Orientation Outcomes	Sudsiri Rungruang
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13:45-14:00	SEA6	Innovation Investment Decision-Making of Cosmetic Entrepreneurs in Thailand	Chinnapong Kanna
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14:00-14:15	SEA7	Financial technology and financial performance of the banking industry in Southeast Asia	Muhammad Syukur
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14:15-14:30	SEA8	Creative Spaces Reconstructed in the Industrial Heritage Landscape, Lampang as a Case Study	Siripen Yiamjanya
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Session Chair **Sylvia Schwaag Serger**

14:50-15:05	SEA9	Mobility Disability voices toward travel barriers	Donlaporn Suwanthep
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15:05-15:20	SEA10	Privacy and Technology Perspective in Thailand	Nurat Puankhamma
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15:20-15:35	SEA11	A Success Factor of Customer Satisfaction Thai and China for Logistics Service Providers (LSPs)	Sunida Tiwong
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15:35-15:50	SEA12	Inhibitors of sustainable community-based tourism development: evidence from northern Thailand	Piyanart Junkrachang
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JKM Online Session			
10:40-16:10		5F, Room 548	
Session Chair	Chun Hsien Wang		
10:40-10:55	JKM1	How data middle-platform effect stakeholder activism: The role of firm's ethics behaviors	Yilang Chen
10:55-11:10	JKM2	Research on Cross-regional Emergency Materials Intelligent Dispatching Model in Major Natural Disasters	Lin Zhang
11:10-11:25	JKM3	Digital Technology and Green Value Creation in Manufacturing Firms: The Role of Corporate Social Responsibility	Lei Huang
11:25-11:40	JKM4	Riding on the Digital Wave: The Adoption of Artificial Intelligence on firm Innovation Ambidexterity	Meng Yang
11:40-11:55	JKM5	The Moderating Effect of Government Environmental Regulation on the Relationship between CER and Green Innovation	Hanxiao Liu
12:00-13:30	Lunch		
Session Chair	Chun Hsien Wang, Tachia Chin		
13:30-13:45	JKM6	Tacit knowledge transfer efficiency, exploitative and exploratory innovations - effects of customer participation moderator	Yilin Chen
13:45-14:00	JKM7	Organizational unlearning, boundary-spanning search and technological innovation quality: A fuzzy-set QCA approach	Yushu Liu
14:00-14:15	JKM8	Research on the Influence of Artificial Intelligence on the Quality of Enterprise Green Innovation	Lijuan Peng
14:15-14:30	JKM9	Non-redundant ties and firms' innovation quality: An interaction effect model based on multilevel networks	Jianlin Lyu
14:30-14:45	JKM10	Artificial intelligence, Human capital structure adjustment and Sustainable business model innovation	Meiyu Liu
Session Chair	Chun Hsien Wang, Tachia Chin		
14:50-15:05	JKM11	How does ego-network size affect firms' sustainable innovation?	Niannian Qi
15:05-15:20	JKM12	A Study on the Impact of Artificial Intelligence Technology on Corporate Social Responsibility	Qin Wu
15:20-15:35	JKM13	Humanitarian assistance operations based on the "XAI-HI" digital collaboration model	Longzhen Li
15:35-15:50	JKM14	What type of decision-making can facilitate AI-HI integration in humanitarian aid operations?	Ruoxi Li



October 29 (Sun) 13:30-16:10

Geopolitics and Global Science Special Session			
13:30-14:50		1F, Sun Yun-Suan Lecture Hall	
Session Chair	Tommy Shih		
13:30-13:45	GG51	Scientific collaboration amid geopolitical tensions: Global variation in responses to China engagement	Tommy Shih
13:45-14:00	GG52	International research collaboration in an age of geopolitics: end of the global enterprise of science?	Sylvia Schwaag Serger
14:00-14:15	GG53	South Korea`s Responses to Geopolitical Challenges to International Scientific Collaboration	Hyejin Kim

Oral Session 19 Firms and Innovation			
14:50-16:10		1F, Sun Yun-Suan Lecture Hall	
Session Chair	Andrei Kucharavy		
14:50-15:05	D21	Busy boards and ESG performance. Evidence from a gender perspective among companies belonging to NASDAQ-100	Aleksandar Sevic
15:05-15:20	D22	Partnerships and networks in a new market? Study of foreign offshore wind companies in Taiwan	Wan-Jung Tsai
15:20-15:35	D23	Technological trajectory measure using patent data and analysis of firms' strategies in the Fast-Moving-Consumer-Goods (FMCG)	Katsuyuki Kaneko
15:35-15:50	D24	ENLIGHTENING FACTORS INFLUENCING FIRM PERFORMANCE: A CASE STUDY OF THAI FIRM	Siriprapha Jitanugoon



Oral Session 21 Diffusion Modeling, New Products and Market

13:30-14:50 1F, Room 103

Session Chair **Hung-Chun Huang**

13:30-13:45	F1	The industrial evolution and technological diffusion of the semiconductor industry	Hung-Chun Huang
13:45-14:00	F2	COLLECTIVE TECHNOLOGY MANAGEMENT: PATIENTS USE OF TELEHEALTH IN A PANDEMIC RESPONSE	Kwancheewa Chaima
14:00-14:15	F3	Designing a Framework for Key Performance Indicators (KPIs) in Smart City	Kyu Bo Han
14:15-14:30	F4	Analysis of challenges in the adoption of Decentralized Finance systems: A step toward financial transformation	Abhishek Behl
14:30-14:45	G8	The Complex Interplay between Sustainable Entrepreneurship and Geopolitics	Varsha Arya

Oral Session 23 Climate Change

13:30-14:50 1F, Room 120

Session Chair **Tsung-Chen Lee**

13:30-13:45	B6	Trajectories of Green Technology Advancement and 2050 Net-Zero Transitions: A Case Study of Taiwan	Tsung-Chen Lee
13:45-14:00	B7	Governing pathological markets	Chi-Mao Wang
14:00-14:15	B8	Powering up the global value chains: Value chain governance and the marketisation of renewable energy	Ker-Hsuan Chien
14:15-14:30	B9	How technology innovation, R&D, ICT trade & infrastructure effects carbon neutrality targets in BRICS countries	Badee Uz Zaman
14:30-14:45	B10	Location Matters: A Regional Perspective on Combating GHG Emissions	Albert Albert



Oral Session 25			
Firms and Innovation			
13:30-14:50			1F, Room 104
Session Chair	Yu-Chun Chen		
13:30-13:45	D36	Research on collaboration to simultaneously create private space industry and public technology	Shinichi Takata
13:45-14:00	D37	A systematic review of digitalization and internationalization: Current trends and future directions	Ke-Lin Collin Chen
14:00-14:15	D38	Do entrepreneurial support organizations can really support new ventures?	Yu-Chun Chen
14:15-14:30	D39	The role of post-heroic leadership and idea champions in unraveling paradoxical tensions of innovation process	Bojana Markovska Klepec
14:30-14:45	D40	A Digital Servitization Process Unfolded in the Agricultural Sector	Guan-Yu Yeh

Oral Session 26			
Firms and Innovation			
14:50-16:10			1F, Room 104
Session Chair	Shih Hsin Chen		
14:50-15:05	D41	Developing Pharmaceutical Innovation Ecosystem in Taiwan and India	Shih Hsin Chen, Hung-Chi Chang
15:05-15:20	D42	Digital Transformation as Collective Action – A Case Study of Innolux	Hsin-Ling Lee
15:20-15:35	D43	How a company can leverage ecosystem development to create competitive advantages	Rong Deng
15:35-15:50	D44	The influence of Information Quality, Brand Image, and Authenticity on Willingness to Pay	Kang-Chih Yang
15:50-16:05	D45	Another Frame of Organizational Innovation: a general system approach	Mahshid Ghaffarzadegan



TFSC Editors' Private Meeting Session (by invitation only)

13:30-14:50

6F, Sun Yun-Suan Memorial Center

Global Scaling SI

Scaling Tech Firms – A Cool Session on a Hot Topic

14:50-16:10

2F, Room 203

Session Chair

Matthias Fink

14:50-14:55

Introduction "Setting the stage"

Matthias Fink

14:55-15:05

Inspirational Talk on "Why scaling is important to tech firms"

Aard Groen

15:05-15:15

Inspirational Talk on "Why scaling is at the heart of TFSC 's mission"

Scott Cunningham

15:15-15:20

Paper 1:
Social Venture Scaling: Does the Technological Environment Matter?

**Sergey Anokhin,
Fabian Eggers**

15:20-15:25

Paper 2:
Demystifying Massive and Rapid Business Scaling – An Explorative
Study on Driving Factors in Digital Start-ups

**Francie Lange,
Nino Tomini**

15:25-15:35

Paper 3:
Hotspurs in, Sober Bores out: A Call and an Agenda for
Entrepreneurship and Innovation Policies that Foster Rapidly Scaling
Ventures

Daniela Maresch

15:35-15:55

Panel Discussion on
"Technology-Based Business Scaling: What, Why and How?"

**Kelly Cowan,
Steven Walsh,
Scott Cunningham,
Daniela Maresch,
Raj Mahto,
Mandeep Singh,
Rajnish Mallick**

15:55-16:05

Wrap Up and Summary on
"What the special issue contributes to the field of MOTI"

Steven Walsh

16:05-16:10

Closing

Matthias Fink



Oral Session 28			
Emerging Technology			
13:30-14:50		2F, Room 224	
Session Chair	Mijail Naranjo Zolotov		
13:30-13:45	A16	Examining In-group and Out-group Visions' Influence on Social Media Engagement and Political Polarization	Mijail Naranjo Zolotov
13:45-14:00	A17	Building an Innovative Ecosystem through Living Labs: Focusing on Incheon Last-Mile Delivery Living Lab	Dongkyun Nam
14:00-14:15	A18	Knowledge Flow: Case by the Incheon Smart Mobility Living Lab	Jaehyeok Lee
14:15-14:30	A19	The Technological Convergence of Emerging Intelligent Technology Ecosystem	Shih Hsin Chen, Hung-Chi Chang
14:30-14:45	A20	Using Patent Mining Techniques to Construct the Ontology of Metaverse	Ai-Che Chang

Oral Session 29			
Emerging Technology, New Products and Market			
14:50-16:10		2F, Room 224	
Session Chair	Nazrul Islam		
14:50-15:05	A21	Green technology and firm performance: Moderating effects of absorptive capacity and firm age	Nazrul Islam
15:05-15:20	A22	The Emerging Challenge of Artificial Intelligence-Generated Student Essays: Students' Attitude and Behavior Intention	Yann-Jy Yang
15:20-15:35	A23	The Uptake of Drone Delivery Services: What Do Consumers Value?	Marina Dabić
15:35-15:50	A24	A Case Study on the Guidelines for Citizen-led Smart Village's Sustainable Demonstration of Innovative Technology	Yeji Nam
15:50-16:05	G7	Supply Chain Resilience and its Impact on Geopolitics	Akshat Gaurav



Oral Session 31 National Policies

13:30-14:50		2F, Room 223	
Session Chair	Michiko Iizuka		
13:30-13:45	E6	Lessons Learned from Restrictive Trade Regulations on Innovative Products: Between South Korea and Japan	Seung-Pyo Jun
13:45-14:00	E7	Towards Inclusive Digital Cities: Unveiling Facets of Digital Inclusion, and Identifying Vulnerable Social Groups	Fatemeh (Negar) Noori
14:00-14:15	E8	A Case Study of the Causes of the Withdrawal of the Mitsubishi Regional Jet (MRJ)	Akifumi Kokabu
14:15-14:30	E9	Heterogeneous treatment effects of incorporating public innovation intermediaries: Evidence from extension, research, and inventive activities	Nobuya Fukugawa

Oral Session 32 National Policies

14:50-16:10		2F, Room 223	
Session Chair	Sira Maliphol		
14:50-15:05	E11	Sectoral Technological Sovereignty under Fire: The Impact of North Korean Provocation on Regional Trade	Sira Maliphol
15:05-15:20	E12	National Development of Digital Health – evidence from prior to the COVID-19	Li-Hung Yu
15:20-15:35	E13	Assessment of competing the M&O contracts at the three NNSA national laboratories	Steven Walsh
15:35-15:50	E14	Intra-firm cross-organizational open innovation in institutional policymaking for green transition	Steven Walsh
15:50-16:05	E15	What effect do international sanctions have on industries?	Sepehr Ghazinoory



Oral Session 34			
Online-Firms and Innovation			
13:30-14:50		5F, Room 549	
Session Chair	Chia-Hung Wu		
13:30-13:45	OD11	Self-Leadership and User Innovation on Platforms: the Influence of Platform Type and Knowledge Sharing	Hao Jiao
13:45-14:00	OD12	The Impact of ESG Performance on Collaborative Innovation--The Mediating Role of Media Coverage	Xiaowen Tan
14:00-14:15	OD13	TMT's Regulatory Focus and Firms' Green Innovation: The Contingency of the Firm's Environmental Underperformance	Yujie Wang
14:15-14:30	OD14	Team Entrepreneurial Orientation and Cross-Level Innovation Performance: A Team Competition Perspective	Guangyi Yang
14:30-14:45	OD15	More than a new campus: University's spatial expansion, emerging knowledge cluster, and innovation growth	Fan Zhang

Oral Session 35			
Online-Firms and Innovation			
14:50-16:10		5F, Room 549	
Session Chair	Arho Suominen		
14:50-15:05	OD16	How to break through the "bottleneck" technology and achieve higher innovation performance under mission orientation?	Junjie Huang
15:05-15:20	OD17	E, S and G not ESG: Heterogeneity of Environmental, Social and Governance on Green Innovation	Chong Yang
15:20-15:35	OD18	Facilitating Indigenous Innovation in the Low-carbon Sector: An Interaction between Dynamic Capabilities and IJV-University Cooperation	Linlan Huang
15:35-15:50	OD19	Hidden Champion Enterprises Digital Level, Absorptive Capacity and Innovation Performance	Yan Liu
15:50-16:05	OD20	How Chinese high-tech firms respond to the techno-geopolitics age: From knowledge seeking to knowledge creation	Wenyao Zhang



Oral Session 37
Online-Firms and Innovation

13:30-14:50		5F, Room 505	
Session Chair	Min-Nan Chen		
13:30-13:45	OD26	Local government digital attention and green technology innovation: Analysis based on spatial Durbin model	Xin Wang
13:45-14:00	OD27	How does digital transformation affect firms' innovative search behavior? From the perspective of network embedding	Xue Yang
14:00-14:15	OD28	SCIENCE-BASED INNOVATION REVISITED: THE ROLE OF BRIDGING SCIENTISTS	Xinrong Li
14:15-14:30	OD29	Mechanisms of Recommendation Algorithms Driving Value Creation in Content Platforms: Relevance or Causality?	Caihong Zhou
14:30-14:45	OD30	How dynamic capabilities facilitate business model innovation under four environmental pressures: SMEs in Traditional Industries	Wenjun Huang

Oral Session 38
Online-Emerging Technology, Firms and Innovation

14:50-16:10		5F, Room 505	
Session Chair	Luca Mora		
14:50-15:05	OA14	Uncertainty and Risks Assessment of 6G Under Geopolitical Constraints: Based on the Risk Matrix Method	Lina Liu
15:05-15:20	OA15	Surviving the Evolving Geopolitical Realities: Blockchain-based Risk Coping Mechanism for Trade Finance	Maryam Hina
15:20-15:35	OD31	Technical barriers to trade and enterprises' export upgrading: Empirical evidence from the perspective of ESG	Yulu Yan
15:35-15:50	OD32	Local alliance, technological innovation and the "Belt and Road" export trade	Dengpan Zheng

October 29 (Sun) 16:30-17:50

Forum:
Global Value Chains in a Changing Geopolitical Landscape

16:30-17:50		1F, Sun Yun-Suan Lecture Hall	
Moderator	Chan Yuan Wong, Ying-Che Hsieh		
Panelists	Alexis Habiyaremye -Industrial Policy for Technological Sovereignty in the Context of Shifting Geopolitical Power		
	Michiko Iizuka -Some considerations after the Pandemic: case of vaccine		
	Dirk Meissner -The meaning of ecosystems in sustainable GVC		
	Yuya Kajikawa -Fragmentation or Integration? -Potential of institutional, normative, and technological approaches to overcome-		