

2022 International Conference on Clothing and Textiles

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Flexibility and Fluidity: Future Realms of the Fashion and Textiles

PROGRAM

- Date: May 26(Thu) ~ 27(Fri), 2022
- Venue : SK Future Hall, Korea University, Seoul, Republic of Korea
(Online Hybrid)
- Host : The Korean Society of Clothing and Textiles
- Co-Hosts :
 - The Japan Research Association for Textile End-Uses
 - Institute of Textiles and Clothing (ITC), The Hong Kong Polytechnic University
- Organizers : Human Ecology Research Center, Korea University
Education-Research Innovation Program for Human-Centered Technology, Hanyang University
- Sponsors : The Korean Federation of Science and Technology Societies
Korea Federation of Textile Industries
Korean Studies Information
Youngone Corporation, FITI Testing & Research Institute

Welcome Address



Distinguished scholars, ladies and gentlemen

We invite you to the 2022 International Conference on Clothing and Textiles.

Nowadays, the fashion and textile industry, a convergence of humanities, arts, and various technologies, is enriching human lives through digital innovation from the 4th Industrial Revolution. It is also providing opportunities for the industry to transform itself into an ecologically and socially sustainable one. Accordingly, the 2022 ICCT will be held under the theme “Flexibility and Fluidity: Future Realm of the Fashion and Textiles”. As we enter the post-COVID era, we intend to explore opportunities to break away from the traditional fashion system and open up new horizons for the future fashion industry via expansion of digital space, utilization of artificial intelligence, material innovation and convergence of virtual spaces, along with pursuit of a sustainable fashion industry.

This conference will be held in a hybrid mode; online and in person at the SK Future Hall of Korea University in Seoul on May 26-27, 2022.

On the 26th, we will hold a joint symposium, with the Japan Research Association for Textile End-Uses under the theme “Frontiers in the Field of Textile Technology” and with Hong Kong Polytechnic University under the theme “Fashion Tech: Reshaping the Future.” In addition, Graduate Student Research Competition will be organized for graduate students with passion for research, and an information session on the educational and working environment in Japan, Hong Kong, and the United States will be held for talented, young scholars interested in opportunities overseas.

On the 27th, there will be keynote speeches by Dr. Valerie Steel of the FIT Museum in the United States, Dr. Thomas Gries of Aachen University in Germany, and Dr. Yu-Sung Chang Vivity AI and EVP at Hanwha Systems. Further, there will be special lectures as well as special topic sessions by prominent scholars from the United States, Japan, the Netherlands and Hong Kong to share the latest research trends in clothing and textile.

I would like to express my deepest gratitude to our distinguished speakers, presenters who shared their valuable research, and members of the Organizing and Scientific committee who worked hard to prepare for this conference.

I hope that the 2022 ICCT will share the latest research trends with all scholars who are devoted to research in fashion and textiles, become a venue for international research exchange, present a new paradigm for the field, and further the academic development of apparel science.

I look forward to your support and active participation for the success of 2022 ICCT.

May 2022

Kyung Wha Oh, Ph.D

President of the Korean Society of Clothing and Textiles

Welcome Address



Dear participants of ICCT 2022 from abroad and members of KSCT:

As the organizing committee chair, I would like to cordially invite you to the 2022 International Conference on Clothing and Textiles (ICCT). The 2022 ICCT will be held on May 26–27, under the theme of “Fluidity and Flexibility: The Future Realms of Fashion and Textiles.” The growth of digital space where physical space and virtual space are combined and various technological innovations including artificial intelligence technology combined with social isolation due to the pandemic to challenge the existing fashion system and industrial practices. We would like to provide a forum for sharing academic perspectives and discussing new research topics.

On the first day of the conference, two joint symposia, “Frontiers in the Field of Textile Tech” with the Japan Research Association for Textile End–Uses, and “Fashion Tech: Reshaping the Future” with the Institute of Textiles and Clothing at Hong Kong Polytech will be held. These symposia are expected to be an opportunity for academic exchange to share research results and to build networks among Asian apparel scholars. After these symposia, graduate students will share their research accomplishments in the Graduate Student Research Competition as in previous years. There also are informational sessions that will guide students and young scholars in their preparation for academic and industry careers.

The second day will be the main program, including many thought–provoking talks and presentations. In particular, three highly–reputed keynote speakers, Dr. Valerie Steele, the director of the FIT Museum in the United States, Dr. Thomas Gries at Aachen University, Germany, and President Yu–Sung Chang, EVP at Hanwha Systems, Korea will share their views on the future textile and fashion industries. Besides, four academic or industry experts, Dr. Hyeyoung Kim (USA), Dr. Makoto Fukuda (Japan), Dr. Marie Chae (Netherlands), and Dr. Jeanne Tan (Hong Kong) will deliver the latest research trends in the field of fashion and textiles. We will also host poster presentations and five oral research presentation sessions, as well as special topic sessions, where a number of selected research studies will be presented including the FATE Best Paper.

With the enthusiastic involvement of the members, the ICCT can be more meaningful and successful. I believe this conference will contribute to the development of academia and the future textile and fashion industries by fostering the exchange of academic achievements and ideas among scholars from around the world.

I look forward to meeting you at the 2022 ICCT either face–to–face at the Korea University campus or online, from May 26 to 27, 2022. Thank you.

Sincerely,

Yoon-Jung Lee, Ph.D
Chair, Organizing Committee of 2022 ICCT
The Korean Society of Clothing and Textiles

Congratulatory Address



President Kyung Wha Oh of the KSCT, eminent scholars, honored guests, ladies and gentlemen, I would like to extend my heartfelt congratulations on this occasion of the 2022 International Conference on Clothing and Textiles organized by the Korean Society of Clothing and Textiles, and welcome honored guests to Seoul. It is a privilege for me to address esteemed professionals of clothing and textiles from all around the world. I believe this spring conference, under the theme of “flexibility and fluidity: future realms of the fashion and textiles,” will give us an opportunity to share the up-to-date knowledge among experts worldwide. Also, I would like to take this opportunity to express my sincere gratitude to all members of the organizing committee for their dedication in preparing this conference.

I hope today’s conference could establish a meaningful research communication network for the all participating researchers and professionals to discuss and share our ideas seeking for future realms of the fashion and textiles. For the global fashion and textiles industry facing unprecedented complexity under the pandemic and other crisis, we, as scholars in the field of clothing and textiles, have greater responsibility to solve these issues. Being responsive to understand dramatically transformed fashion consumer behavior, it is the time to discuss evolving consumption values as well as prior consumer concerns on flexibility and fluidity issues. We will contemplate how to involve them and how to reach them with more potential and ideas. There should be an opportunity for powerful collaboration and cross-sectional co-creation seeking for the hidden possibility in fashion.

Notably, the KSCT stood out as the premier professional society in clothing and textiles since 1976. With its 40 years of history and over 4,000 members, the KSCT has been recognized worldwide for its contributions to the progress of leading edge research in the field of clothing and textiles. The KSCT has also become a trusted platform in providing opportunities for individual members to further their professional and academic potential by establishing the networks among the academic and industrial members. I believe today’s event is a part of the efforts to expand the horizon of KSCT, to take the leadership in the worldwide community of clothing and textiles research. I hope that this Conference will yield collective wisdom and opinions on these issues that will enrich the field of research both in Korea and the world. I also hope that the scholars, researchers, and industry experts take this opportunity to share the vision, and elicit insightful contributions among respected participants in their fields. Thanks to the devoted efforts of all participants, I trust that this Conference will be a huge success. I wish our distinguished guests from abroad a safe and enjoyable stay in Seoul. Thank you very much.

Woo-il Lee, Ph.D

President of the Korean Federation of Science and Technology Societies

Congratulatory Address



I congratulate you on hosting the International Conference on Clothing and Textiles (ICCT) in 2022 with the participation of Dr. Kyung Wha Oh who is the president of the Korean Society of Clothing and Textiles and many members of the Society.

The Korean Society of Clothing and Textiles is a great cradle for the development and growth of excellent researchers in the fashion and textile sectors in Korea, and I know that it has played a very outstanding role as a representative society encompassing both the apparel research and industry.

It is believed that the research results presented through the conference's theme 'Flexibility & Fluidity' will be a very good opportunity to gain invaluable insights into the future of fashion and textiles facing innovative changes.

'Flexibility & Fluidity' is considered a very important factor for us to prepare for a rapidly changing future through flexible responses and quick adaptation.

Now, for a sustainable future of humankind, all industries are experiencing very rapid changes. We are preparing for carbon neutrality to overcome the climate crisis through the development of new technologies by abandoning the old methods, and at the same time creating a new world called Metaverse through digital transformation.

New crises and changes can bring great challenges to us, but they can also open up new opportunities and a better future.

Therefore, I think that the 2022 ICCT prepared by the Korean Society of Clothing and Textiles today will be a valuable time for researchers to prepare for a promising future for our country and the global fashion and textile industry.

Today, FITI Testing & Research Institute participated as a proud member of the Korean Society of Clothing and Textiles and had the opportunity to make a small contribution for a successful conference, thank you once again.

I wish the great achievements of Korean Society of Clothing & Textiles in the future, as well as the success and good fortune of its members. Thank you.

Hwa Young Kim, Ph.D
President of FITI Testing & Research Institute

Congratulatory Address



Dear President Kyung Wha Oh of the Korean Society of Clothing and Textiles, honored guests, conference participants, ladies and gentlemen.

It is my pleasure, as President of Korea University, the host institution, to extend a warm welcome to each and every one of you, as we launch KSCT's 2022 International Conference on Clothing and Textiles.

Korea University has long been committed to international research collaboration. With approximately 13 percent of our research featured among the most cited publications and 40 percent published in the world's top journals, Korea University is well above the Korean average and ranked among the world's leading research-intensive universities. For this reason, it is our honor to continue these efforts by hosting this conference, which brings together renowned scholars from within the field of clothing and textile scholarship, to share their academic achievements and discuss future research directions.

As you may know, the Korean apparel and textile industries have contributed greatly to the economic and cultural development of the Republic of Korea. With the recent popularity of Hallyu Culture around the world, people are becoming more aware of Korean culture, and thus the international impact of Korean fashion is also increasing.

As the KSCT is a prominent academic society, with a tradition and influence that has helped to shape the development of the Korean apparel and textiles industries, it has become an effective and useful resource to address the most important challenges within the field. Some of these challenges include its ever-changing technological environment, and the many disruptions caused by the COVID-19 pandemic. For this reason, the theme of this year's conference, "Flexibility and Fluidity: The Future Direction of Fashion and Textiles," is most timely.

As you peruse the conference itinerary you will find a diverse array of lectures by prominent scholars, sessions on various research topics, competitions for graduate students, workshops related to entrepreneurship, and mentoring programs for young scientists. These opportunities for serious discussions and the active exchange of creative ideas, enables KSCT to continue to make a positive impact on the social, cultural, and technological environments within the industry; while playing a key role in developing the future directions of the field, and fostering important fashion-related research.

And so, I encourage all of you to make the most of your time at KSCT's 2022 International Conference on Clothing and Textiles, and that you find it informative, useful and enjoyable. I also hope you will bring home wonderful memories of your time with us at Korea University and in Seoul. Thank you.

Jin Taek Chung, Ph.D
President, Korea University

Organizing Committee

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	Kim, Hye Rim	Sookmyung Women's University, KOREA
	Ra, Sunjung	Kongju National University, KOREA
	Park, Yaewon	Yonsei University, KOREA
	Bae, Jihyun	Hanyang University, KOREA
	Suh, Sung Eun	Gachon University, KOREA
	Youn, Chorong	Pusan National University, KOREA
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	Lim, Jia	Daegu University, KOREA
	Chun, Jaehoon	Seoul National University, KOREA
	Cho, Seok Ho	Chonnam National University, KOREA
	Chae, Youngjoo	Chungbuk National University, KOREA
	Choi, Hyeong Yeol	Dong-A University, KOREA

Flexibility and Fluidity: Future Realms of the Fashion and Textiles

- Date: May 26~27, 2022

Day 1 : May 26 (Thu.) 2022 (Online only)

Time	Activity		
9:00~10:40	KSCT - JRATEU Joint Symposium <i>Frontiers in the Field of Textile Technology</i> Co-Chairs: Dr. Su-Young Son, Kyungpook National University Dr. Takako Fukazawa, Kyoto University of Education		
10:40~10:50	Break		
10:50~13:30	KSCT - ITC(HK) Joint Symposium <i>Fashion Tech: Reshaping the Future</i> Co-Chairs: Dr. Changsang Yun, Ewha Womans University Dr. Sun Young Choi, The Hong Kong Polytechnic University		
13:30~14:30	<table border="1"> <tr> <td> Information Sessions: <ul style="list-style-type: none"> Studying in the School of Fashion and Textiles at the Hong Kong Polytechnic University - Dr. Sun Young Choi, The Hong Kong Polytechnic University, Hong Kong Study Abroad in Japan - Dr. Su-Young Son, Kyungpook National University, Korea </td> <td> Tips for getting a faculty or post-doc position in the U.S. - Dr. ByoungHo Ellie Jin North Carolina State University, USA </td> </tr> </table>	Information Sessions: <ul style="list-style-type: none"> Studying in the School of Fashion and Textiles at the Hong Kong Polytechnic University - Dr. Sun Young Choi, The Hong Kong Polytechnic University, Hong Kong Study Abroad in Japan - Dr. Su-Young Son, Kyungpook National University, Korea 	Tips for getting a faculty or post-doc position in the U.S. - Dr. ByoungHo Ellie Jin North Carolina State University, USA
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14:40~16:20	Graduate Student Research Competition <ul style="list-style-type: none"> Session 1: Clothing Science / Textiles Science Chair: Dr. Dong-Eun Kim, Ewha Womans University Session 2: Fashion Marketing / Fashion Design Chair: Dr. Eunsoo Baek, Hanyang University 		

Day 2 : May 27 (Fri.) 2022 (On-/Offline Hybrid)

All offline activities will also be broadcasted online

Time	Activity
Plenary Session (9:00~12:50) Location: Kim Yang Hyun Hall(KYH), in SK Future Hall Building / Online	
09:00~09:30	Registration
09:30~09:50	KSCT Regular General Meeting: (President: Eunah Yoh, Kyemyoung University)
09:50~10:10	Greetings: Dr. Kyung Wha Oh (President, Korean Society of Clothing and Textiles) Congratulatory Messages
10:10~11:00	Keynote Speech 1: The Future of Fashion Dr. Valerie Steele (Director, The Museum at FIT, USA)
11:00~11:10	Break

President:
Juyeon Park,
Seoul National University

2022 International Conference on Clothing and Textiles (ICCT)

Time	Activity	
11:10~12:00	Keynote Speech 2: Smart Textiles and Smart Textile Production - Current Trends and Future Perspectives Dr. Thomas Gries (Professor, Aachen University, Germany)	
12:00~12:50	Keynote Speech 3: From Makers to Retailers to Customers: How AI-driven Operation Changes Manufacturing and Retail Industries Dr. Yu-Sung Chang (CEO, Vivity AI and EVP at Hanwha Systems, Korea)	
12:50~14:30	Lunch (Sudang Samyang Faculty House)	
	Poster Presentations (Online)	
	Special Lectures (14:30~15:50)	
14:30~15:10	Clothing & Culture (KYH Hall & Online) Presider: Yhe-Young Lee, Korea University	Textiles & Technology (Rm331 & Online) Presider: Jooyoun Kim, Seoul National University
	Scholarly Discourse on the Metaverse: Current State and Future Possibilities for Fashion Retailing Dr. Hyeyoung Kim (Professor, University of Minnesota, USA)	Asics Latest Technology in Sporting Goods and its Near Future Dr. Makoto Fukuda (Manager, Asics Institute of Sport Science, Japan)
15:10~15:50	Hybrid Fashion - Tech Education Model for Smart Textiles Dr. Marie Chae (Post-Doc Researcher, Delft University of Technology, Netherland)	Materials and Inclusivity: Designing intelligent textiles for multi-sensory environments Dr. Jeanne Tan (Associate Professor, Hong Kong Polytechnic University Chief Operating Officer, Laboratory for Artificial Intelligence in Design, Hong Kong)
15:50~16:10	Coffee Break	
Concurrent Sessions (16:10~17:30)		
16:10~17:30	Special Topic Session1 (Online) Presider: Dr. JiHyun Bae, Hanyang University	Special Topic Session2 (Online) Presider: Dr. Hana Lee, Korea University
	Special Topic Session3 (Online) Presider: Dr. You-Kyum Kim, FITI Testing & Research Institute	Oral Session1 (Online) Chair: Dr. Kyung Hwa Hong, Kongju National University
	Oral Session2 (Online) Chair: Dr. Dong-Eun Kim, Ewha Womans University	Oral Session3 (KYH Hall/ Online) Chair: Dr. MiYoung Lee, Inha University
	Oral Session4 (Online) Chair: Dr. Yoojin Kwon, Korea National Open University	Oral Session5 (Rm331/ Online) Chair: Dr. Hongjoo Woo, Yonsei University
	Human-centric approach for sustainable PPE (Hanyang University)	Creativity & Sustainability Entrepreneurship (Korea University)
	Sustainable material for circular fashion (FITI Testing & Research Institution)	Textile Science and Technology
	Clothing Science and Technology	Business Aspects of Clothing and Textiles
	Technology and Human Experience	CSR and Sustainable Consumption
17:30~18:00	Poster Presentations Q&A Chair: Dr. Minjung Park, Ewha Womans University	
18:00~19:00	Graduate Student Research Competition & Best Paper Awards Ceremony Presider: Juyeon Park, Seoul National University	
	Location: KYH Hall / Online	

Keynote Speeches



Dr. Valerie Steele, USA
The Museum at FIT

"The Future of Fashion"

Valerie Steele is director and chief curator of The Museum at the Fashion Institute of Technology, where she has organized more than two dozen exhibitions since 1997, including *The Corset: Fashioning the Body*; *Gothic: Dark Glamour*; *A Queer History of Fashion: From the Closet to the Catwalk*; *Pink: The History of a Punk, Pretty, Powerful Color*; and *Paris, Capital of Fashion*.

She is also the author or editor of more than 25 books, including *Paris Fashion*, *Women of Fashion*, *Fetish: Fashion, Sex and Power*, *The Corset*, *The Berg Companion to Fashion*, and *Fashion Designers A-Z: The Collection of The Museum at FIT*. Her books have been translated into Chinese, French, German, Italian, Portuguese, Russian, and Spanish. In addition, she is founder and editor in chief of *Fashion Theory: The Journal of Dress, Body & Culture*, the first scholarly journal in Fashion Studies.



Prof. Thomas Gries, Germany
RWTH Aachen University

"Smart Textiles and Smart Textile Production - current trends and future perspectives"

Prof. Thomas Gries is, since 2001, Director of the Institute of Textile Technology and the associated Department of Textile Engineering at RWTH Aachen University. Before that, he spent several years in senior positions in the chemical fiber industry. Thomas Gries is a member of the Academy of Science NRW and an internationally recognized reviewer of numerous journals. In addition, he has authored and co-authored numerous books and book chapters on topics of textile technology. He has received numerous prizes and awards for his scientific work in the fields of textile engineering, chemistry fiber production and processing, technical textiles, fiber composite materials, medical textiles, and smart textiles.



Dr. Yu-Sung Chang, Korea
CEO, Vivity AI and EVP at Hanwha Systems

"From Makers to Retailers to Customers: How AI-driven Operation Changes Manufacturing and Retail Industries"

Yu-Sung Chang is the CEO of Vivity AI, a leading-edge AI company enabling transparent and sustainable operations for Smart Factory. Before that he served as Chief Technology Officer of SSG.COM, an Ecommerce subsidiary of Emart Group, one of the largest retailers in Korea.

He has been focusing on data-driven strategy and development throughout his career. He spent more than 10 years at Wolfram Research—the makers of Mathematica and Wolfram Alpha which powers mobile personal assistants including Siri and Bixby—where he held various positions including Chief Product Officer. In 2013, he led the advanced UX and R&D group in Samsung Mobile and spearheaded the launch of Samsung Digital Health Platform and other advanced services. He has been engaging with several AI startups and cofounded Huma AI, a natural language-driven healthcare automation company. He led SK Telecom's Mobility Division before joining SSG.COM, whose services includes T map, T map Taxi and ADAS maps for semi-autonomous vehicles. He served as a board member of Grab Geo Holdings—a joint venture between Grab and SK Telecom.

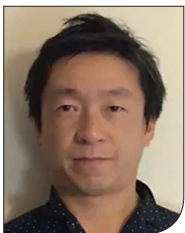
Special Lectures



Prof. Hyeyoung Kim, USA
University of Minnesota

"Scholarly Discourse on the Metaverse: Current State and Future Possibilities of Fashion Retailing"

Hye-Young Kim is a professor in the Retail Merchandising Program at the University of Minnesota. She also serves as the Interim Head of the Department of Design, Housing, and Apparel and the Founding Director of the Center for Retail Design and Innovation (CRDI). She holds a Ph.D. in Retail and Consumer Sciences from The University of Tennessee and an M.S. in Merchandising from University of North Texas. Kim's research interests include consumer behavior in technology-mediated retail environments. Her scholarship in these areas has appeared in leading academic journals, including Journal of Business Research and Journal of Retailing and Consumer Services. Kim's collaborative research has been recognized as Best Paper/ Paper of Distinction at International Textile and Apparel Association (2007, 2008, 2010, 2020) and American Collegiate Retailing Association (2005, 2008, 2011).



Dr. Makoro Fukuda, Japan
Asics Institute of Sport Science

"Materials and Inclusivity: Designing intelligent textiles for multi-sensory environments"

Makoto Fukuto is manager of Apparel Function Development team of Sports Contents research Development, Asics Institute of Sport Science. he has over 10 years of extensive experience in research and development on sports apparel in ASICS Institute of Sport Science. He has been engaged in developing unctional apparel for competitive athletes in Tokyo 2020 Olympic games and new apparel with electric device.



Dr. Marie Chae, Netherland
Delft University of Technology

"Hybrid Fashion - Tech Education Model for Smart Textiles"

Dr.Youngjin Chae (Marie) is a postdoc researcher in the Emerging Materials Group at Delft University of Technology (Netherlands). She gained her Ph.D. in Textile Science from Yonsei University (South Korea) and continued her research at Singapore University of Technology and Design as a research scientist and had joined respective projects of smart textiles for future living and digital manufacturing systems. Later, she co-founded Lifetechwear. Pte. Ltd. (Singapore) to provide design and material solutions for different products and user applications through innovative textiles. Marie's research focuses to design and develop smart textiles and smart clothing as the next generation of wearables by considering it as a tangible interface between the human and the environment. Along with the functional usefulness and advanced comfort at a user-centered level, her recent outreaches and connects smart textile and smart clothing to a broader social context of smart cities and circular economy by understanding its engagement and impact on the user and their environment.



Prof. Jeanne Tan, Hong Kong
Hong Kong Polytechnic University

"Chief Operating Officer, Laboratory for Artificial Intelligence in Design"

Jeanne Tan is Chief Operating Officer of the Laboratory for Artificial Intelligence in Design (AiDLab) and Associate Professor of Design at the Institute of Textiles & Clothing, The Hong Kong Polytechnic University. Jeanne's work investigates the interface of design and technology. Her research interests include intelligent material design, interactive textiles for well-being, hybrid design processes and smart wearables. Jeanne's research had involved working collaboratively with institutions such as Hong Kong Sheng Kong Hui Welfare Council, Society of Rehabilitation and Crime Prevention, HK, Humansa (New World Development) with industry sponsorship from TSE and Theory. Her designs had been internationally exhibited at venues such as Victoria and Albert Museum, UK; London Design Week 2018, Museum Fünf Kontinente, Germany and Today Art Museum, China. Jeanne is often asked to speak about her research at institutions and events such as TedX, Royal College of Art, UK, Parsons School of Design, USA and Hongik University, Korea. Recent research grants include Quality Education Fund (HKD\$1.49 million), Laboratory for Artificial Intelligence in Design, funded by Innovation and Technology Fund (HKD\$4.2 million) and Create Smart Initiative (HKD\$1.24 million). Her design work had been featured in international and regional media such as Harper's Bazaar, WGSN and Xinhua News. As a design consultant, Jeanne works with companies and organizations to implement fashion, textile and creative education solutions. Her consultancies include the LVMH Group (Celine, Givenchy, Kenzo, Loewe, Marc Jacobs), Nike, Alibaba, Fashionary, Kiabi, CLP Power Hong Kong Limited, The Hong Kong SAR Government (EMSD) and The Hong Kong Red Cross.

Guest Speakers



Prof. ByoungHo Ellie Jin, USA
North Carolina State University

"Tips for getting a faculty or post-doc position in the U.S."

Dr. ByoungHo Ellie Jin is Albert Myers Distinguished Professor of Textile Economics and Management at Wilson College of Textiles at the North Carolina State University, USA. She received her B.S., M.S., and Ph.D. degrees in Clothing & Textiles from Yonsei University, Korea, and a Post Doctorate degree in International Retailing at Michigan State University. Dr. Jin's research interests center on fashion brands' internationalization, branding, consumers and retailing in emerging markets, and innovation and competitiveness of small- and medium-sized enterprises. She has conducted numerous research projects funded from the U.S. Department of Agriculture, the U.S. Department of Education and the National Research Foundation of Korea. She has published more than 135 refereed papers in top-tier journals, including Clothing & Textiles research Journal, International Marketing Review, Management Decision, Advances in Consumer Research, Business Horizons, etc., among which have received many best paper awards at international conferences. In addition, she has published two books and six edited books for the series of Global Fashion Brand Management for which she serves as co-series editor. She presently serves as counselor of the International Textiles and Apparel Association (ITAA).



Prof. Huiju Park, USA
Cornell University

"Data Driven Design Approach"

Huiju Park (Ph.D.) is Director of Cornell Performance Apparel Design Lab (<https://www.performancewear.human.cornell.edu>), and an associate professor of Apparel Design in the Department of Human Centered Design at Cornell University. Professor Park's research has focused on wearable technology, biomechanical and physiological evaluation of personal protective clothing systems and sports apparel through human-centered design and creative use of technologies. Professor Park has secured about \$1.96 Million Research Funding (direct award to Park) from 25 proposals (total funding awarded to selected projects: \$8.5 Million) selected by various agencies including NASA, the US Air Force, the US Department of Defense, the US Department of Energy, the US Department of Agriculture, and the US Environmental Protection Agency. He also co-invented 7 items of smart clothing and wearable sensors. His research, teaching and creative design scholarship won awards from international conferences and design competitions including 2021 Best Brief Award at the International Symposium of Wearable Computers, 2021 Second Place at the ITAA (International Textile and Apparel Association) Nancy Rutherford Teaching Innovation Award, 2020 ITAA Mid-Career Excellence Award, 2015 ITAA Rising Star Award, 2010 ATEXINC Excellent Marketable Design Award at the ITAA Design Competition, 2009 Second Place at American Quilter's Society Fashion Design Competition and ITAA Paper of Distinction Awards (2012 & 2018).



Prof. Jihyun Kim-Vick, USA
Kent State University

"Generation Z Consumers' Luxury Goods Ownership Types and Purchase Intention of Luxury Goods using Collaborative Redistribution Platforms"

Dr. Kim-Vick is a professor and graduate studies coordinator in the Shannon Rogers and Jerry Silverman School of Fashion at Kent State University in Ohio. She is a seasoned researcher and educator who uses socio-psychology and behavioral economics background to prepare the future leaders in the fashion industry at Kent State. Over two decades of her career, she focuses her research endeavor deepening the understanding of technological trends and consumer behavior in the omni-channel environment and conscious capitalism approach for small retail entrepreneurs. Her scholarly contribution was recognized through being ranked one of top five global eminent researchers in the discipline of Fashion Marketing in 2017 in CTRJ among other numerous international awards. Her teaching and research excellence was recognized by the International Textile and Apparel Association's Mid-Career Excellence Award in 2018. Recently, she was selected as one of three recipients of the 2021-22 Outstanding Research and Scholar Award from Kent State University. She is currently working on a textbook titled, *Omnichannel Retailing for Fashion Business* (1st ed.) to be published in June 2023 by Bloomsbury.

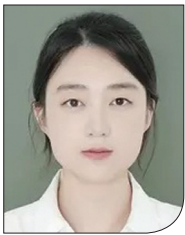
FTEX Best Paper Awardees



Prof. Hyewon Lee, Korea
Catholic University

"Charging device for wearable electromagnetic energy-harvesting textiles"

Hyewon, Lee is an assistant professor in the Department of Clothing & Textile at the Catholic University of Korea. Lee holds a Ph.D. in human ecology from Seoul National University as an aesthetic in dress major. Professor Lee was a research professor at IT Fusion Technology Research Center of Chosun University of Korea from 2016 to 2017, and a research professor at Cultural Technology Research center and Fashion Convergence Technology Lab. of Sangmyung University from 2019 to 2020. Professor Lee has been researching wearable energy harvesting systems with Professor Roh, Jung-Sim of Sangmyung University since 2016. Lee's research interests include smartware, wearables design, and fashion technology. In addition, she is conducting various studies on the aesthetic aspects of smart clothing.



Prof. Naan Ju, Korea
Hanyang University

"Consumer resistance to innovation: smart clothing"

Naan Ju is a research assistant professor at Research Institute of industrial Science, Hanyang University, Seoul, Korea. She obtained a Ph. D in Clothing and Textiles at Hanyang University (Korea). Dr. Ju worked as a post doctor during 2020 -2021 at research institute of industrial science, Hanyang university. Her research interests include consumer resistance to innovation, text analysis, eco-friendly vehicles, and circular economy.

Special Topic Session Speakers



Prof. Chris K. Y. Lo, Hong Kong
Hong Kong Polytechnic University

“How cross-disciplinary research from fashion schools helps under pandemic: the novel antiviral 3D printing technology”

Dr. Chris K. Y. Lo is the associate professor and discipline leader of fashion business in the Institute of Textiles and Clothing of the Hong Kong Polytechnic University. He is also the former programme director of the Bachelor of Arts in Fashion and Textiles (Hons) in PolyU. His main research outputs are related to sustainability in operations management, occupational health and safety, social media and big data analytics, and disruptive technology adoptions to firm performance. He published in both mainstream business journals such as, *Organization Sciences*, *Manufacturing & Service Operations Management*, *Journal of Operations Management*, *Decision Sciences*, *Journal of Business Ethics*, *International Journal of Production Economics*, etc. and fashion textiles journals, such as *Coloration Technology*, *Textile Research Journal* with the focus on environment, human health and sustainability. One of his recent research works was selected by the editors at the *Journal of Operations Management* for the best paper award in 2020. He is the associate editor of *Decision Sciences*, *Service Science* (an INFORM journal), and editorial review board of *Journal of Operations Management*.

To bring theory into practices, Dr. Lo commercialized technologies that improve quality management, warehouse management with Augmented Reality (AR), and 3D printing technology. The antiviral 3D printing technology has been adopted by public and private hospitals, property developers, schools, used-clothes recycling boxes in Hong Kong to combat COVID-19.



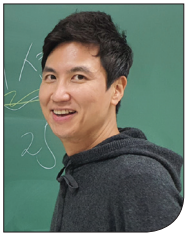
Prof. Young-Gi Kim, USA
Delaware State University

“Electroactive Polymers: The Promising Solution for the Human-Centered Approach for Sustainable PPE”

Prof. Young-Gi Kim is Assistant Professor of the Department of Chemistry and PI of Energy and Organic Electronics (EOEL) of Delaware State University, USA.

Dr. Young-Gi Kim studied textile and polymer subjects at Han Yang University, Seoul, South Korea, earning a BS and a MS. After studying in the Department of Macromolecular Science and Engineering at Case Western Reserve University, USA, Dr. Kim earned a PhD in the Polymer Sciences Program (Plastic Engineering option) in the Department of Chemistry at the University of Massachusetts Lowell, focusing on the synthesis and application of fluorescent polymers, organic molecules, metal complexes and inorganic/metal nanoparticles for advancing nanostructured solar cells, PLEDs and fluorescence amplified biosensors. Dr. Kim has conducted postdoctoral fellow research in the area of synthesis and application of donor-acceptor variable band gap polymers for innovating polymer solar cells, CNT based PVDs and PLEDs in the Dr. John Reynolds group of the Department of Chemistry at the University of Florida for more than 4 years. For the past 32 years, Dr. Kim has gained extensive experience in academia as well as the industrial innovative roles for advancing modern organic and polymer materials along with the application in the area of Innovative Nano, Energy, Photonics, Electronics, Electric and Bio, covering the fields of basic science to engineering-based commercialization.

Dr. Kim is currently one of the advisory board members for the industrial sector. His major interests lie in the innovation of organic and polymer materials for the application of energy and organic electronics, including solar cells, batteries, supercapacitors, biosensors, and smart coatings. Dr. Kim has published multiple SCI journals (IF: 95) and has provided invited and technical presentations. Dr. Kim is serving relevant professional society as a program proposal reviewer, an invited journal editor of special edition, and a journal reviewer.



Prof. Jaehong Park, Korea
Korea University

“Sustainable social innovation and Social Entrepreneurship”

Dr. Jaehong Park is a Social Entrepreneur and a Professor at Korea University. He received his PhD in Entrepreneurship from Chungang University and his M.A. in Public Administration from the Harvard Kennedy School. Prior to joining Korea University, Dr. Park has founded and managed a Social Enterprise called JUMP! since 2011, which helps kids from disadvantaged families with various partners such as Seoul Metropolitan government, Hyundai Motors and Samsung Electronics, etc. He is currently working on his book project, tentatively titled, “Sustainable social innovation and Social Entrepreneurship.”



Ms. Nin Castle, United Kingdom
Entrepreneur and textile waste expert

“A case of sustainable fashion entrepreneur”

Ms. Nin Castle is an entrepreneur and textile waste expert. She worked with both pre-consumer and post-industrial textile waste since 2006 when she founded Goodone, an award-winning sustainable fashion label that she ran for nine years. Nin is co-founder of Reverse Resources, a SaaS platform for the global fashion industry for steering and tracing textile waste from source to recycling. Nin leads the Reverse Resources’ recyclers network, matching textile waste streams with the best possible recycling solutions. Reverse Resources’ goal is to break down market barriers, reduce costs, and increase the quality and availability of recycled materials for the textile industry.



Mr. Prince Jimdel Ventura, Philippines
Fashion social technopreneur, consultant, designer, stylist, and the lead champion of circular fashion in the Philippines

“Be a Fashion Technopreneur: Solving Fashion’s Biggest Issues Through Innovation, Circularity, and Entrepreneurship”

Mr. Prince Jimdel Ventura is a fashion social technopreneur, consultant, designer, stylist, and the lead champion of circular fashion in the Philippines. He is a Clothing Technology graduate from the University of the Philippines with a holistic training in textile and garment research, design, production, merchandising, and entrepreneurship. His research interests include smart textiles, circular materials, designs, and systems, sustainable production, collaborative consumption, and climate impact. Prince is the Founder and CEO of Wear Forward which is the Philippines’ premier clothing as a service that provides an AI-powered circular fashion marketplace and virtual wardrobe where you can share, manage, and source preloved, sustainable, upcycled, refashioned, and deadstock clothes, accessories, and other textiles and avail fashion services like consulting, wardrobe management, styling, custom-made clothing, alteration, repair, upcycling, and training. Wear Forward’s initiatives as a fashion tech startup and social enterprise include the collection, management, and refashioning of textile wastes, fashion on demand, cocreation, community building, and impact reduction. Wear Forward won the Wala Usik Challenge: A Circular Economy Hackathon and the Ways4Waste Innovation Challenge in 2021. Prince also founded the Circular Fashion Philippines and Circular Fashion Global communities through Wear Forward. Moreover, he is the Spokesperson of Fashion Revolution in the Philippines, the country’s 2021 Climate Ambassador of the Global Youth Climate Network, a Climate Reality Leader of The Climate Reality Project, and a Youth 4 Sustainable Cities Ambassador of MakeSense. He is the most sought-after speaker for sustainable and circular fashion lectures, workshops, and other events in the country. He aims to revolutionize fashion and mindsets by raising awareness about the environmental and socioeconomic impacts of the industry and addressing the issues both producers and consumers face today.



Hyung-Seok Jeon, Korea
UL Korea

“Sustainability Trend in the Supply Chain”

Eric Jeon is Head of the Retail & Consumer Products division of UL Korea, a global safety science company.

Graduated from Korea university, major in Environmental science & Ecological engineering and Master degree for Environmental engineering in the Ajou University.

Worked for 5 years at the EHS (Environment, Health, Safety) Center of Samsung Electronics’ Semiconductor Division, especially for chemicals and greenhouse gases inventory used in the semiconductor process and in charge of carbon footprint of semiconductor and LED products.

Have verified the circularity of products and sites such as recycling/bio-based content and waste diversion and worked to create a transparent supply chain for both domestic and global, through cooperation with various stakeholders.

Have focused especially on sustainability assessments in the supply chain such as resource circularity, greenhouse gases, chemicals and labor & human rights audits, supported the creation of a healthy ecosystem in the entire supply chain from raw materials to retail and consumers in the field of fashion and textiles market.



Dr. Bong Kyun Ko, Korea
FITI

“Life Cycle Assessment on Sustainable Apparel Materials”

Dr. Ko Bong-kyun graduated from Konkuk University with a final doctoral degree in environmental engineering, and his final paper was on the development of the SLCA (Simplified Life Cycle Assessment) methodology using the greenhouse gas information of the textile fabric dyeing process.

The dyeing process in the entire production process of textile and fashion products plays a decisive role in the value of the product as the middle or last stage of product production.

In 2017, he was in charge of the LCI (Life Cycle Inventory) DB construction project of the domestic dyeing process and was designated as the research institute’s credibility specialized institution and was in charge of the business support business.

Directly through the textile fashion revitalization foundation project, one of the domestic Ministry of Industry and Trade, for two years, the domestic textile supply chain company is responsible for direct support to respond to the environmental information disclosure request from global brands that are demanding companies. In charge of supporting business so that it can be directly linked to profits

In related fields of expertise, sustainability in Textile & Fashion – sustainable material, chemical, environmental mgt, Supply chain traceability, CSR, LCA(Life Cycle Assessment)



Dr. Antoine Goupil
Arkema Seoul Technical Center

“Sustainable Solutions for Consumer & Industrial Makers”

Product and business development - high performance polymers (bio-based polyamides & PEKK) for the Korean market: focus on sustainability in automotive & new businesses

- set and implement local strategy in coordination with sales team to secure existing markets and develop new markets such as electric vehicles and hydrogen storage
- develop new products with R&D team as stage gate project leader or team member
- interact with customers : understand the need and propose solutions, technical support (including existing businesses)

Coordination of a global automotive sub-market business development group

- set and implement a global product development strategy based on sustainable, bio-based materials to cover existing and future market needs, especially in BEV and FCEV.
- interface between R&D and global Business Development team
- promote solutions globally through public presentations, webinars and case studies

Coordination of Asia automotive R&D

- support stage gate projects in Asia for new product development
- support technically Asia BD teams

Strengths: versatility, teamwork, problem solving, decision making, accountability

May 26 (Thu.), 2022

09:00~10:40 KSCT-JRATEU Joint Symposium (Online)

Co-Chairs: Dr. Su-Young Son, Kyungpook National University
Dr. Takako Fukazawa, Kyoto University of Education

Oral Session

P No.	Title	Author	Affiliation
JK-O-1	NIGHTWEAR AND BEDDING DURING WINTER AMONG AGED AND MIDDLE-AGED JAPANESE	Kazue Okamoto-Mizuno* Haruka Suzuki Koh Mizuno	Wayo Women's University, Japan Wayo Women's University, Japan Tohoku Fukushi University, Japan
JK-O-2	A COOLING VEST USING MOISTURE EVAPORATION FUNCTION TO PREVENT HEAT STROKE	Riho Sakashita* Sae Kobayashi Natsuho Iitsuka Harumi Morooka	Kyoto Women's University, Japan Kyoto Women's University, Japan Graduate School of Kyoto Women's University, Japan Kyoto Women's University, Japan
JK-O-3	EFFECT OF WEARING FULL HARNESS SAFETY BELTS AND AIR VENTILATION CLOTHING WITH FANS ON CLOTHING INSULATION AND AIRFLOW VELOCITY	Ayano DEMPOYA* Shizuo IWAMOTO Yuta KITAHATA Keita YAMAZAKI Yasuhiro SHIMAZAKI Kouhei KUWABARA	Kanagawa University, Japan Kanagawa University, Japan Kanagawa University, Japan Takenaka Corporation, Japan Toyohashi University of Technology, Japan Muroran Institute of Technology, Japan
JK-O-4	MEASUREMENT OF JACKET STRAIN DISTRIBUTION ON DIFFERENT SHIRTS DURING ARM MOVEMENTS	KyoungOk Kim* Mizuki Yamakoshi Masayuki Takatera	Shinshu University, Japan Shinshu University, Japan Shinshu University, Japan
JK-O-5	EFFECT OF VAPOR PERMEABILITY AND OPENING DESIGN OF OUTDOOR PARKA AND ENVIRONMENTAL VELOCITY ON ITS VAPOR TRANSFER AND VENTILATION RATE-USING SWEATING THERMAL MANIKIN AND TRACER GAS METHODS-	Yayoi Satsumoto* Takuya Aoyagi Ayano Dempoya Tomoko Koshiba Teruko Tamura	Yokohama National University, Japan Yokohama National University, Japan Kanagawa University, Japan Bunka Gakuen University, Japan Bunka Gakuen University, Japan
JK-O-6	EVALUATION OF THERMOREGULATION RESPONSES USING POLYESTER AND CELLULOSIC HIJABS IN HOT CLIMATES	Syifa Salsabila* Maria Stenkina Joo-Young Lee Sabrina Ilma Sakina	Seoul National University, Korea Seoul National University, Korea Seoul National University, Korea Institut Teknologi Bandung, Indonesia

Poster Session

P No.	Title	Author	Affiliation
JK-P-1	RELATION BETWEEN THERMAL COMFORT LIMIT IN THE WHOLE BODY AND METABOLISM IN JAPANESE YOUNG FEMALE AND MALE	Takako Fukazawa*	Kyoto University of Education, Japan
JK-P-2	UTILIZATION OF BASHOFU FIBERS FROM NEGLECTED MATERIALS IN THE TRADITIONAL CRAFT MAKING	Yoko Nomura* Fumiko Kakihara Koji Koizumi	Okinawa Institute of Science and Technology Graduate University (OIST), Japan Japan Women's University, Japan OIST, Japan
JK-P-3	EXAMINATION OF METHODS OF ANALYZING BODY SHAPES USING HOMOLOGOUS BODY MODELS: EFFECTS OF DIFFERENCES IN STANDARDIZATION OF THE COORDINATE SYSTEM ON STATISTICAL ANALYSIS	Ayumi Takemoto* Michiko Ohtsuka	Japan women's University, Japan Japan women's University, Japan

P No.	Title	Author	Affiliation
JK-P-4	CONDUCTIVITY OF METAL WOVEN STRUCTURE FOR SOLID OXIDE FUEL CELL	Kengo Kubotera* Eiichi F. Mine Yoshio Kobayashi	Tokyo Metropolitan Industrial Technology research Institute, Japan Tokyo Metropolitan Industrial Technology research Institute, Japan Ibaraki University, Japan
JK-P-5	STABILITY OF ELECTRICAL RESISTANCE OF A TEXTILE CRACK SENSOR UNDER ACCELERATED WEATHERING TEST	Eiichi F. Mine* Kengo Kubotera Yoichi Ito Tomotaro Watanabe Tatsuro Sakamoto Akira Suzuki	Tokyo Metropolitan Industrial Technology Research Institute, Japan Tokyo Metropolitan Industrial Technology Research Institute, Japan Tokyo Metropolitan Industrial Technology Research Institute, Japan Tokyo Metropolitan Industrial Technology Research Institute, Japan Railway Technical Research Institute, Japan Railway Technical Research Institute, Japan
JK-P-6	DEVELOPMENT OF AN IMAGE ANALYSIS APPLICATION TO ENABLE QUANTIFICATION OF COLORING MATTER ADHERING TO FABRICS EVEN WHEN THE HUE CHANGES	Masaru Oya*	Yokohama National University, Japan
JK-P-7	RAISON D'ÊTRE OF SEVEN-PANEL KASAYA IN KOYASAN SHINGON BUDDHISM	Yukari Aratano* Natsuko Mizuno Masashi Kobayashi	Osaka Shoin Women's University, Japan Osaka Shoin Women's University, Japan Osaka Shoin Women's University, Japan
JK-P-8	ALTERNATING COLD AND HOT WATER PERFUSED GLOVES FOR THE RECOVERY OF SPORT CLIMBERS' HANDS AND FOREARMS	Kayoung Cho* Joo-Young Lee Kyung Wha Oh	Seoul National University, Korea Seoul National University, Korea Chung-Ang University, Korea
JK-P-9	DEVELOPMENT OF AN APPAREL SEWING LINE SIMULATOR FOR FLEXIBLE PRODUCTION	Minsuk Kim Sungmin Kim*	Seoul National University, Korea Seoul National University, Korea
JK-P-10	A SURVEY STUDY ON THE COMFORT OF COMMUTING SHOES: FOCUSED ON 20S AND 30S	Min Jung Kim Sojin Jung Shinjung Yoo*	Kyung Hee University, Korea Kyung Hee University, Korea Kyung Hee University, Korea
JK-P-11	CHARACTERISTICS OF DENDROPANAX MORBIFERUS HOT WATER EXTRACT AND MORPHOLOGY OF PU NANOFIBER CONTAINING DENDROPANAX MORBIFERUS EXTRACT	Dayae Kang Jeongsoon Lee*	Chungnam National University, Korea Chungnam National University, Korea
JK-P-12	EVALUATION OF THE POWER GENERATION EFFICIENCY OF THE ELECTROMAGNETIC ENERGY HARVESTING JACKET	Jung-Sim Roh* Hyewon Lee	Sangmyung University, Korea Catholic University, Korea

May 26 (Thu.), 2022

10:50~13:30 **KSCT-ITC(HK) Joint Symposium (Online)**

Co-Chairs: Dr. Changsang Yun, Ewha Womans University
Dr. Sun Young Choi, The Hong Kong Polytechnic University

Oral Session

P No.	Track	Title	Author	Affiliation
IK-O-1	2	A SYSTEMATIC REVIEW OF BLOCKCHAIN TECHNOLOGY FOR SUSTAINABLE FASHION	S.Y.Ng	The Hong Kong Polytechnic University, Hong Kong
			P.Y. Mok*	The Hong Kong Polytechnic University, Hong Kong
IK-O-2	2	DETECTION OF REPEATED PATTERNS WITH CNN ACTIVATIONS AND SIMILARITY MATCHING	Hong Qu	The Hong Kong Polytechnic University, Hong Kong
			K. P. Chau	The Hong Kong Polytechnic University, Hong Kong
			P.Y. Mok*	The Hong Kong Polytechnic University, Hong Kong
IK-O-3	2	POSE-AWARE SEGMENTATION-BASED LANDMARKS LOCALIZATION FOR FASHION	Honghong HE	The Hong Kong Polytechnic University, Hong Kong/Laboratory for Artificial Intelligence in Design, Hong Kong Special Administrative Region
			Yanghong ZHOU	The Hong Kong Polytechnic University, Hong Kong
			Jin-tu Fan	The Hong Kong Polytechnic University, Hong Kong/Laboratory for Artificial Intelligence in Design, Hong Kong Special Administrative Region
			P. Y. Mok*	The Hong Kong Polytechnic University, Hong Kong/Laboratory for Artificial Intelligence in Design, Hong Kong Special Administrative Region
IK-O-4	2	ESTABLISHING AN INTEGRATED SIZING STANDARD FOR INTERNATIONAL FASHION TRADE	Xin Zhang	The Hong Kong Polytechnic University, Hong Kong/Laboratory for Artificial Intelligence in Design, Hong Kong Special Administrative Region
			Ningrong Xie	The Hong Kong Polytechnic University, Hong Kong
			Jin-tu Fan	The Hong Kong Polytechnic University, Hong Kong/Laboratory for Artificial Intelligence in Design, Hong Kong Special Administrative Region
			P.Y. Mok*	The Hong Kong Polytechnic University, Hong Kong/Laboratory for Artificial Intelligence in Design, Hong Kong Special Administrative Region
IK-O-5	1	"IT'S NOT JUST GOING ONLINE!" LESSONS LEARNED FROM DIGITIZING FASHION EDUCATION DURING THE COVID-19 PANDEMIC	Magnum Man-Lok LAM* Tsai-Chun HUANG	The Hong Kong Polytechnic University, Hong Kong The Hong Kong Polytechnic University, Hong Kong
IK-O-6	2	CHARACTERISING THE ADHESION STRENGTH OF 3D-PRINTED FLEX POLYMERS ON KNIT/WOVEN TEXTILES VIA T-PEEL TESTS	Tin Chun Cheung	The Hong Kong Polytechnic University, Hong Kong
			Sun Young Choi*	The Hong Kong Polytechnic University, Hong Kong
IK-O-7	2	THE APPLICATION OF YI EMBROIDERY PATTERN IN FASHION DESIGN THROUGH 3D PRINTING	Jing Liu	The Hong Kong Polytechnic University, Hong Kong
			Kinor Jiang*	The Hong Kong Polytechnic University, Hong Kong

Poster Session

P No.	Track	Title	Author	Affiliation
IK-P-1	2	FABRICATION OF CNT-POLYMER NANOCOMPOSITES BY MENISCUS-GUIDED PRINTING FOR FLEXIBLE STRAIN SENSORS	Sanghyeon Lee Jeongyeon Lee*	Yonsei University KIURI Institute, Korea The Hong Kong Polytechnic University, Hong Kong
IK-P-2	1	CAN TRADITIONAL CULTURAL RESOURCES ENHANCE STUDENTS' CREATIVITY? A CASE STUDY IN FASHION DESIGN EDUCATION	Sun Young Choi Jiaqi Zhang Yhe-Young Lee*	The Hong Kong Polytechnic University, Hong Kong The Hong Kong Polytechnic University, Hong Kong Korea University, Korea
IK-P-3	2	WHAT MAKES A DIFFERENCE, SOUNDS OR LETTER SHAPES? AN EXPERIMENTAL STUDY ON THE SOUND SYMBOLISM OF BRAND NAMES -FOCUSING ON KOREAN AND AMERICAN CONSUMERS-	Ju Yeun Jang Hayeun Jang* Do Yuon Kim	The Hong Kong Polytechnic University, Hong Kong Busan University of Foreign Studies, Korea Auburn University, USA
IK-P-4	2	DO CONSUMERS FEEL EMPOWERED BY SHOPPING SECOND-HAND LUXURY FASHION ONLINE?	Chung Wha (Chloe) Ki* Ju Yeun Jang Shuang Zhou	The Hong Kong Polytechnic University, Hong Kong The Hong Kong Polytechnic University, Hong Kong The Hong Kong Polytechnic University, Hong Kong
IK-P-5	2	HOW GEOGRAPHIC PROXIMITY PROMOTES INTER-CONSUMER TRADE OF USED FASHION GOODS: FOCUSING ON THE REDUCTION OF NEGOTIATION COSTS IN THE CARROT MARKET	Jisoo Park Miah Lee*	Seoul National University, Korea Seoul National University, Korea
IK-P-6	2	TORSO BODY TYPE ANALYSIS - FOCUSING ON BODY MASS INDEX (BMI)-	SuJoung Cha*	Mokpo National University, Korea
IK-P-7	2	A STUDY ON UPPER BODY MEASURES TO IMPROVE THE SIZE SYSTEM OF SPORTS BRAS FOR MIDDLE-AGED WOMEN	Heesun Oh*	Pukyong National University, Korea
IK-P-8	2	AFFORDANCES OF CROWDFUNDING PLATFORMS AND THE EFFECTS OF CROWDFUNDING FASHION PRODUCT ATTRIBUTES ON PERCEIVED EASE OF USE AND USEFULNESS	Youngin Cho Minjung Park*	Ewha Womans University, Korea Ewha Womans University, Korea
IK-P-9	2	CROSS-BORDER ONLINE SHOPPING: US CONSUMERS' INTENTION TO SHOP ON KOREAN SITE	Heesoon Yang Hye Jung Jung* Chorong Youn Yun Jung Choi	Sangmyung University, Korea Seoul National University, Korea Pusan National University, Korea Mokpo National University, Korea
IK-P-10	2	A STUDY ON THE KEYWORDS OF THE PRODUCT NAME OF JEANS USING TEXT-MINING ANALYSIS	Yeo sun Kang*	Duksung Women's University, Korea

May 26 (Thu.), 2022

14:40~16:20 Graduate Student Research Competition (Online)

Session 1. Clothing Science / Textile Science

Chair: Dr. Dong-Eun Kim, Ewha Womans University

P No.	Title	Author	Affiliation	Area
G1	A DESIGN AND CHARACTERIZATION OF KNITTED ELECTRODE BY THE KNITTING STRUCTURE FOR BIO SIGNAL MONITORING	Sora Han Hyelim Kim Daeyoung Lim Wonyoung Jeong*	Korea Institute of Industrial Technology, Korea Korea Institute of Industrial Technology, Korea Korea Institute of Industrial Technology, Korea Korea Institute of Industrial Technology, Korea	Textile Science & Technology
G2	DESIGNING A SMART CUSHION FOR ELDERLY WHEELCHAIR USERS TO RECOGNIZE FALL DETECTION	Kyeongui Baek Jubi Ha Woojae Jeong Sujin Song Mee Jekal*	Hanyang University, Korea Hanyang University, Korea Hanyang University, Korea Hanyang University, Korea Hanyang University, Korea	Textile Science & Technology
G3	STUDY ON THE SUSTAINABLE DYEING PROCESS USING SPENT COFFEE GROUNDS	Dong Ju Yu Changsang Yun*	Ewha Womans University, Korea Ewha Womans University, Korea	Textile Science & Technology
G4	CUSTOMIZATION OF THE 3D PRINTED 3-POINTED STAR POROUS PARAMETRIC OUTSOLE DESIGN BY GRASSHOPPER	Xiaokui Chen Sunhee Lee*	Dong-A University, Korea Dong-A University, Korea	Textile Science & Technology
G5	EFFECT OF SURFACE MODIFICATION BY UV/O ₃ TREATMENT ON ADHESION OF 3D PRINTED COMPOSITE FABRIC	Yoo Jung Han Changsang Yun*	Ewha Womans University, Korea Ewha Womans University, Korea	Textile Science & Technology
G6	PREPARATION AND EVALUATION OF GRAPHENE/POLYVINYL ALCOHOL COATED THERMOPLASTIC ELASTOMER FILAMENT FOR FDM 3D PRINTER	Imjoo Jung Sunhee Lee*	Dong-A University, Korea Dong-A University, Korea	Textile Science & Technology
G7	AUTOMATIC PARAMETRIZATION OF GRADING PATTERNS	Jihyun Oh Sungmin Kim*	Seoul National University, Korea Seoul National University, Korea	Clothing Science and Technol
G8	POTENTIAL CHALLENGES OF COLLABORATIVE ROBOT IMPLEMENTATION IN GARMENT FACTORIES	Kim Phung Nguyen* Yoon Jin Ma	Illinois State University, USA Illinois State University, USA	Clothing Science and Technology
G9	EVALUATING THE EXTENDED COMFORT OF MULTILAYER FACE COVERINGS	Katarina Goodge* Albert Lin Ruobai Xiao	Cornell University, USA Cornell University, USA Cornell University, USA	Clothing Science and Technology

Session 2. Fashion Marketing / Fashion Design

Chair: Dr. Eunsoo Baek, Hanyang University

P No.	Title	Author	Affiliation	Area
G10	BRAND GENDER CONSTRUCTION: THE ROLE OF LANGUAGE IN SOCIAL MEDIA EXTENDED ABSTRACT	Zhihong Huang Eunsoo Baek*	The Hong Kong Polytechnic University, Hong Kong Hanyang University, Korea	Economics of Clothing & Textiles/Fashion Business
G11	PREDICTING VOICE SHOPPING LOYALTY: BASED ON THE USES-AND-GRATIFICATIONS PERSPECTIVE	Jennifer Yeeun Huh*	University of Minnesota, USA	Economics of Clothing & Textiles/Fashion Business
G12	THE EFFECT OF MALLEABLE SELF-CONCEPT AND SELF-DISCREPANCY ON BRAND RELATIONSHIPS IN AUGMENTED REALITY TRY-ON SERVICE	Terry Haekyung Kim* Hyunjoo Im	University of Minnesota, USA University of Minnesota, USA	Economics of Clothing & Textiles/Fashion Business
G13	BIAS TOWARDS AI APPLICATION IN FASHION DESIGN: A SERIAL MEDIATION MODEL	Garim Lee*	University of Minnesota, USA	Economics of Clothing & Textiles/Fashion Business
G14	A COMPARATIVE STUDY TO UNDERSTAND ADAPTIVE CLOTHING CONSUMERS AND ONLINE SHOPPING – USING DATA MINING METHODS	Muzhen Li* Li Zhao Sharan Srinivas	University of Missouri, USA University of Missouri, USA University of Missouri, USA	Economics of Clothing & Textiles/Fashion Business
G15	TRANSPARENT CORPORATE SOCIAL RESPONSIBILITY COMMUNICATION ON SOCIAL MEDIA	Angie Lee* Te-Lin Doreen Chung	Iowa State University, USA Iowa State University, USA	Economics of Clothing & Textiles/Fashion Business
G16	WHO ACCEPTS THE GROTESQUE CONCEPT IN MARKETING?	Hyunah Lee* Sujin Yang	Sungshin Women's University, Korea Sungshin Women's University, Korea	Economics of Clothing & Textiles/Fashion Business
G17	EXAMINING THE EFFECTS OF CORPORATE PHILANTHROPY IN CHINA : USING TEXT MINING ANALYSIS	Kangning Yu Namhee Yoon* Yoon-Jung Lee	Korea University, Korea Korea University, Korea Korea University, Korea	Economics of Clothing & Textiles/Fashion Business
G18	FASHION OR TECHNOLOGY? THE EFFECTS OF PRODUCT-BRAND FIT AND BRAND TYPE ON CONSUMER ADOPTION OF SMART MASKS	Zhenghao Tong Soyeong Lee Hongjoo Woo*	Yonsei University, Korea Yonsei University, Korea Yonsei University, Korea	Economics of Clothing & Textiles/Fashion Business
G19	THE EFFECT OF SUSTAINABILITY MESSAGE OF LUXURY FASHION PRODUCTS ON CONSUMERS' RESPONSE: AN ANALYSIS ON THE ROLE OF GUILT	Jeeweon Wee* Yoon-Jung Lee	Korea University Graduate School, Korea Korea University, Korea	Economics of Clothing & Textiles/Fashion Business
G20	A STUDY ON TREND CHANGES IN THE SOUTH KOREA FASHION INDUSTRY USING BIG DATA FROM THE NEWS	Hyojung Kim Minjung Park*	Ewha Womans University, Korea Ewha Womans University, Korea	Economics of Clothing & Textiles/Fashion Business
G21	EVALUATION OF SOCIAL RESPONSIBILITY AND DIVERSITY EQUITY AND INCLUSION EFFORTS OF FASHION RETAILERS	Danielle McCleish Yoon Jin Ma*	Illinois State University, USA Illinois State University, USA	Economics of Clothing and Textiles/ Fashion Business
G22	CYBERFEMINSIT PERSPECTIVE ON MEDIA REPRESENTATION OF FEMALE ENTREPRENEURSHIP IN THE FASHION INDUSTRY	Daeun Chloe Shin* ByoungHo Ellie Jin	North Carolina State University, USA North Carolina State University, USA	Economics of Clothing and Textiles/ Fashion Business
G23	HOW FASHION EXHIBITIONS ARE CURATED ONLINE	Soojung Kang Jaehoon Chun*	Seoul National University, Korea Seoul National University, Korea	Fashion Design & Cultural Study on Fashion

May 27 (Fri.), 2022**16:10~17:30 Concurrent Sessions (On-/Offline Hybrid)****Special Topic Session 1: HUMAN-CENTRIC APPROACH FOR SUSTAINABLE PPE (Online)**

(Hosted by Education-Research Innovation Program for Human-Centered Technology, Hanyang University, Korea)

For Personal Protective Equipment (PPE) used in the medical workforce as well as in daily life like the KF94 mask, various functional materials are used to protect the users from infection under COVID 19. Advances in new materials and technologies can drive potential in the human-centered approach to sustainable PPE. This session will include the new antiviral 3d printing materials and electroactive polymers for the promising solution for the Human-Centered sustainable PPE.

Chair: Dr. JiHyun Bae, Hanyang University

Title	Author	Affiliation
HOW CROSS-DISCIPLINARY RESEARCH FROM FASHION SCHOOLS HELPS UNDER PANDEMIC: THE NOVEL ANTIVIRAL 3D PRINTING TECHNOLOGY	Prof. Chris K. Y. Lo	The Hong Kong Polytechnic University, Hong Kong
ELECTROACTIVE POLYMERS: THE PROMISING SOLUTION FOR THE HUMAN-CENTERED APPROACH FOR SUSTAINABLE PPE"	Prof. Young-Gi Kim	Delaware State University, USA

Special Topic Session 2: CREATIVITY & SUSTAINABILITY ENTREPRENEURSHIP (Online)

(Hosted by The Sustainable Living System Education and Research Center, Korea University, Korea)

The purpose of the session is to provide information on preparations and processes for starting a business and introduce examples of sustainability in the fashion field, in order to encourage participants to brush up on their creativity and start a business. The first speaker, Dr. Jae-Hong Park (Research Professor, Crimson Start-up Support Center, Korea University), will cover the general aspects of entrepreneurship, and two sustainable entrepreneurs in the fashion business, from the UK and the Philippines, will share their sustainable businesses.

Chair: Dr. Hana Lee, Korea University

Title	Author	Affiliation
SUSTAINABLE SOCIAL INNOVATION AND SOCIAL ENTREPRENEURSHIP	Prof. Jaehong Park	Korea University, Korea
A CASE OF SUSTAINABLE FASHION ENTREPRENEUR	Ms. Nin Castle	Co-Founder & President, Reverse Resources, United Kingdom
BE A FASHION TECHNOPRENEUR: SOLVING FASHION'S BIGGEST ISSUES THROUGH INNOVATION, CIRCULARITY, AND ENTREPRENEURSHIP	Mr. Prince Jimdel Ventura	Philippines Founder and CEO, Wear Forward, Philippines

Special Topic Session 3: SUSTAINABLE MATERIAL FOR CIRCULAR FASHION (Online)

(Hosted by FITI Testing & Research Institute, Korea)

The purpose of the session is to provide information on preparations and processes for starting a business and introduce examples of sustainability in the fashion field, in order to encourage participants to brush up on their creativity and start a business. The first speaker, Dr. Jae-Hong Park (Research Professor, Crimson Start-up Support Center, Korea University), will cover the general aspects of entrepreneurship, and two sustainable entrepreneurs in the fashion business, from the UK and the Philippines, will share their sustainable businesses.

Chair: Dr. You-Kyum Kim, FITI Testing & Research Institute

Title	Author	Affiliation
SUSTAINABILITY TREND IN THE SUPPLY CHAIN	Dr. Hyung-Seok Jeon	UL Korea, Korea
LIFE CYCLE ASSESSMENT ON SUSTAINABLE APPAREL MATERIALS	Dr. Bong Kyun Ko	FITI Testing & Research Institute, Korea
SUSTAINABLE SOLUTIONS FOR CONSUMER & INDUSTRIAL MAKERS	Dr. Antoine Goupil	Arkema Seoul Technical Center

Oral Session 1. Textiles Science and Technology (Online)

Chair: Dr. Kyung Hwa Hong, Kongju National University

P No.	Title	Author	Affiliation
FTEX Best Paper	CHARGING DEVICE FOR WEARABLE ELECTROMAGNETIC ENERGY-HARVESTING TEXTILES	Hyewon Lee* Jung-Shim Roh	Catholic University, Korea Sangmyung University, Korea
TST-O-1	RECYCLABLE MIL-100(Fe) HYBRID NANOCOMPOSITES FOR ADSORPTION AND PHOTODEGRADATION OF WATER CONTAMINANTS	Halim Lee Soyeon Ahn Jooyoun Kim*	Seoul National University, Korea Seoul National University, Korea Seoul National University, Korea
TST-O-2	PROCESS-STRUCTURE-PROPERTY RELATIONSHIP OF DRY-SPUN FIBERS FROM MUSHROOM EXTRACT -FOCUSING ON THE SELF-HEALING PROPERTY	Jaewon Lee Yaewon Park*	Yonsei University, Korea Yonsei University, Korea
TST-O-3	ROLE OF PORE STRUCTURES OF MUSHROOM CHITIN MEMBRANES ON THEIR SEPARATION PROPERTIES AGAINST OILY AND PARTICULATE CONTAMINANTS	Jeongmin Oh Hanjou Park Jooyoun Kim Yaewon Park*	Yonsei University, Korea Seoul National University, Korea Seoul National University, Korea Yonsei University, Korea

Oral Session 2. Clothing Science and Technology (Online)

Chair: Dr. Dong-Eun Kim, Ewha Womans University

P No.	Title	Author	Affiliation
CST-O-1	EXPLORATORY STUDY ABOUT ELASTIC MODULUS OF HUMAN BREASTS	Minyoung Suh* Yining Chen Jung Hyun Park Emiel DenHartog	North Carolina State University, USA North Carolina State University, USA Pai Chai University, Korea North Carolina State University, USA
CST-O-2	ANALYSIS OF THE INFLUENCE OF INPUT PARAMETERS AND DEVELOPMENT OF PREDICTION MODEL FOR THE PUCKERING IN TEXTILE FABRIC IN CASE OF HIGH-SPEED EMBROIDERY	Anirban Dutta* Biswapati Chatterjee	Government College of Engineering and Textile Technology Serampore, India Government College of Engineering and Textile Technology Serampore, India
CST-O-3	PREPARATION OF COLORED MULTIFUNCTIONAL COTTON FABRICS BY USING AQUEOUS EXTRACTS OF POMEGRANATE RIND, ONION PEEL AND TURMERIC ROOT	Kyung Hwa Hong* Md Morshedur Rahman Joonseok Koh	Kongju National University, Korea Kongju National University, Korea Konkuk University, Korea

Oral Session 3. Business Aspects of Clothing and Textiles (KYH Hall & Online)

Chair: Dr. MiYoung Lee, Inha University

P No.	Title	Author	Affiliation
FTEX Best Paper	CONSUMER RESISTANCE TO INNOVATION: SMART CLOTHING	Naan Ju* Kyu-Hye Lee	Hanyang University, Korea Hanyang University, Korea
Invited	GENERATION Z CONSUMERS' LUXURY GOODS OWNERSHIP TYPES AND PURCHASE INTENTION OF LUXURY GOODS USING COLLABORATIVE REDISTRIBUTION PLATFORMS	Jihyun Kim Vick*	Kent State University, USA
BACT-O-1	HUMAN AND VIRTUAL INFLUENCERS: HOW DO THEY INFLUENCE CONSUMER ATTITUDES?	Ying Qu Eunsoo Baek*	The Hong Kong Polytechnic University, Hong Kong Hanyang University, Korea
BACT-O-2	AVATAR MEDIATED EXPERIENCE IN METAVERSE: THE ROLE OF AVATAR REALISM	Do Yuon Kim* Kyunghwa Chung Ha Kyung Lee	Auburn University, USA Vin University, Vietnam Chungnam National University, Korea

Oral Session 4. Technology and Human Experience (Online)

Chair: Dr. Yoo Jin Kwon, Korea National Open University

P No.	Title	Author	Affiliation
Invited	DATA DRIVEN DESIGN APPROACH	Huiju Park*	Cornell University, USA
THE-O-1	A STUDY ON DESIGNER'S HAPTIC PERCEPTION OF FASHION FABRICS IN DIGITAL ENVIRONMENT	Jisoo Ha* Shin Young Jang	Seoul National University, Korea Seoul National University, Korea
THE-O-2	3D HUMAN POSE RECOGNITION USING MEDIAPIPE POSE AND UDEAS	Jong-Wook Kim* Young-Lim Cho	Dong-A University, Korea Dong-A University, Korea

Oral Session 5. CSR and Sustainable Consumption (Rm331 & Online)

Chair: Dr. Hongjoo Woo, Yonsei University

P No.	Title	Author	Affiliation
CSR-O-1	CORPORATE ENVIRONMENTAL RESPONSIBILITY (CER) ACTIVITIES AND FIRM PERFORMANCE IN THE U.S. TEXTILE AND APPAREL INDUSTRY	Buhyung Cho*	Kent State University, USA
CSR-O-2	THE CONDITIONS OF SUSTAINABILITY IN FASHION BRANDS	Yoo Won Min Kyu-Hye Lee* Song-yi Youn	Hanyang University, Korea Hanyang University, Korea University of Missouri, USA
CSR-O-3	THE EFFECT OF OWNERSHIP DURATION IN FACILITATING SECONDHAND FASHION CONSUMPTION: A CROSS-CULTURAL STUDY	Naeun Lauren Kim* Terry Haekyung Kim ByoungHo Ellie Jin	University of Minnesota, USA University of Minnesota, USA North Carolina State University, USA

May 27 (Fri.), 2022

Poster Session (Online)

Poster Q&A 17:30~18:00

Chair: Dr. Minjung Park, Ewha Womans University

Session 1. Clothing Science & Technology

P No.	Title	Author	Affiliation
CST-P-1	DIGITAL FASHION IN METAVERSE: SOCIAL NETWORK ANALYSIS OF THE #METAVERSE FASHION NETWORK IN TWITTER	HaeJung Maria Kim Stacy Lee*	University of North Texas, USA Texas Tech University, USA
CST-P-2	DESIGNING A HAND-SHAPED CONTROLLER FOR SHAPE MEMORY THERMOPLASTIC POLYURETHANE CONTROL	Young-Lim Choi Jong-Wook Kim*	Dong-A University, Korea Dong-A University, Korea
CST-P-3	DEVELOPMENT OF HELMET DESIGN SYSTEM FOR PLAGIOCEPHALY USING THREE-DIMENSION HEAD SCAN DATA	Yeonghoon Kang Hyeryeon Park Sungmin Kim*	Seoul National University, Korea Seoul National University, Korea Seoul National University, Korea
CST-P-4	APPROPRIATE WEIGHT DETERMINATION OF ARTIFICIAL BREASTS FOR MASTECTOMY PATIENTS: A COMPARATIVE ANALYSIS OF BALANCE BY DIFFERENT LOAD CARRIAGE IN STATIC AND DYNAMIC POSTURES	Da Som Koo Juyeon Park*	Seoul National University, Korea Seoul National University, Korea
CST-P-5	EFFECTIVE 3D BODY MODELS DEVELOPMENT FOR THE KOREAN MENSWEAR MARKET	Ah Lam Lee*	Kyungpook National University, Korea
CST-P-6	INFORMATION ON THE UPPER BODY TO SATISFY THE PURCHASE OF DRESS SHIRTS IN ONLINE APPAREL SHOPPING	Heeyoung Ju Jee Hyun Lee*	Seoul National University, Korea Yonsei University, Korea
CST-P-7	DETERMINING USER PREFERENCES OF VIRTUAL AVATARS IN THE FASHION METAVERSE: THE EFFECT OF AVATAR REALITY AND CHARACTERISTICS OF COMPANIONS	Soun Cho Minje Cho Hyesu Yoo Yeonwoo Hwang Seowoo Kim Juyeon Park*	Seoul National University, Korea Seoul National University, Korea Seoul National University, Korea Seoul National University, Korea Seoul National University, Korea Seoul National University, Korea
CST-P-8	CONSUMER MORAL RESPONSIBILITY FOR SUSTAINABILITY: A REFLEXIVE THEMATIC APPROACH BASED ON NORM ACTIVATION MODEL	Hyo Jung (Julie) Chang Stacy Lee* Yang Zhou Li Zhao	Texas Tech University, USA Texas Tech University, USA Texas Tech University, USA University of Missouri, USA
CST-P-9	THE SHAPE ANALYSIS OF REAL AND VIRTUAL FLARED SKIRTS TO IMPROVE THE REALITY OF VIRTUAL GARMENTS	Chuyeon Suh*	Dong-A University, Korea
CST-P-10	MANUFACTURING OF AN ORGANIC THERMAL MANIKIN USING A LOW-PRICED 3D PRINTER	Jin Young Jung In Hwan Sul*	Kumoh National Institute of Technology, Korea Kumoh National Institute of Technology, Korea
CST-P-11	DEVELOPMENT OF A NEW HEADFORM SIZING SYSTEM FOR SCHOOL-AGE KOREAN CHILDREN	Ah Lam Lee Hyun Jung Han*	Kyungpook National University, Korea Chungbuk National University, Korea
CST-P-12	USER FLOW DESIGN OF A MOBILE APPLICATION FOR AUTOMATIC BODY PHOTOGRAPH ACQUISITION: FOCUSED ON ENHANCED USABILITY AND POSITIVE USER EXPERIENCE	Hyunwook Kim Seowoo Kim Yesung Cho Sohyun Lee Juyeon Park*	Seoul National University, Korea Seoul National University, Korea Seoul National University, Korea Seoul National University, Korea Seoul National University, Korea

Session 2. Economics of Clothing & Textiles / Fashion Business

P No.	Title	Author	Affiliation
ECTFB-P-1	BRINGING SHOPPERS BACK TO THE STORE AFTER THE PANDEMIC	Jaeha Lee*	North Dakota State University, USA
ECTFB-P-2	ADJUSTING TO THE NEW WORLD: THE CHANGES IN CONSUMERS' NEW ECOLOGICAL PARADIGM AND CONSUMPTION MOTIVATIONS AND PATTERNS FOLLOWING THE COVID-19	Hongjoo Woo* Daeun Chloe Shin Sojin Jung ByoungHo Ellie Jin	Yonsei University, Korea North Carolina State University, USA Kyung Hee University, Korea North Carolina State University, USA
ECTFB-P-3	ACCEPTANCE OF FASHION AI CHATBOT SERVICE: EXAMINING THE EFFECTS OF PERCEIVED COMPETENCE AND WARMTH	Hee Jin Hur Woo Bin Kim*	Daejeon University, Korea Seoul National University, Korea
ECTFB-P-4	THE AUTHENTICITY OF VIRTUAL FASHION INFLUENCER AND PARASOCIAL INTERACTION	Xuan-Kun Fan Yoo Won Min Kyu-Hye Lee*	Hanyang University, Korea Hanyang University, Korea Hanyang University, Korea
ECTFB-P-5	CHANGES IN SECOND-HAND CLOTHING CONSUMPTION TRENDS IN KOREA: A TEXT MINING AND TRADE NETWORK ANALYSIS	Sae Eun Lee Kyu-Hye Lee*	Hanyang University, Korea Hanyang University, Korea
ECTFB-P-6	ASSESSING THE ROLE OF PERCEIVED BENEFITS OF ONLINE SHOPPING FESTIVAL IN VIETNAM – DIFFERENCES IN GENERATION M AND GENERATION Z –	Woo Bin Kim Jiali Xie* Ho Jung Choo	Seoul National University, Korea Seoul National University, Korea Seoul National University, Korea
ECTFB-P-7	COMPETENCE AS A CO-CREATOR IN NEW PRODUCT DEVELOPMENT PROCESS USING A COLLABORATIVE PLATFORM	Namhee Yoon Woo Bin Kim*	Korea University, Korea Seoul National University, Korea
ECTFB-P-8	EFFECT OF CHINESE CONSUMERS' NEED FOR UNIQUENESS AND CENTRALITY OF VISUAL PRODUCT AESTHETIC ON BRAND ATTITUDE: ROLE OF SELF-BRAND CONNECTIONS FOR "GUOCHAO" BRAND	YiFang Wu* Eun Young Kim	Chungbuk National University, Korea Chungbuk National University, Korea
ECTFB-P-9	A STUDY ON THE EFFECT OF THE METAVERSE FASHION EXPERIENCE USING VIRTUAL AVATAR ON THE PSYCHOLOGICAL BENEFITS OF CONSUMERS	Eun-Jung Lee* Ji Hye Jeon	Kookmin University, Korea Kookmin University, Korea
ECTFB-P-10	THE EFFECT OF AVATAR-SELF INTEGRATION ON CONSUMERS' BEHAVIORAL INTENTION IN METAVERSE	Sumin Oh Woo Bin Kim* Ho Jung Choo	Seoul National University, Korea Seoul National University, Korea Seoul National University, Korea
ECTFB-P-11	AUGMENTED REALITY ONLY ACTIVATED IN-STORE OR EVERYWHERE? THE EFFECT OF APPLICATION TYPES ON THE CUSTOMER EXPERIENCE	Yun Jung Choi Chorong Youn*	Mokpo National University, Korea Pusan National University, Korea
ECTFB-P-12	EFFECTS OF SERVICE ATTRIBUTES AND MOTIVATION ON GOLFWEAR RENTAL SERVICE USAGE INTENTION	Songmee Kim Yeo Jin Lee Suyeon Park Mineui Hong Hyun Bin Ahn Yuri Lee*	Seoul National University, Korea Seoul National University, Korea Seoul National University, Korea Seoul National University, Korea Seoul National University, Korea Seoul National University, Korea
ECTFB-P-13	CHINESE CONSUMER'S PURCHASE BEHAVIOR FOR ATHLEISURE WEAR	Fenrong Zhang* Kyung Wha Oh	Chung-Ang University, Korea Chung-Ang University, Korea
ECTFB-P-14	CONSUMER MENTAL IMAGERY PROCESSING AND CHOICE HEURISTICS FOR FASHION PRODUCTS IN THE VIRTUAL REALITY STORE	Eun Young Kim* Hyun Jung Park	Chungbuk National University, Korea Chungbuk National University, Korea
ECTFB-P-15	ANALYZING THE MOTIVATION AND IMPLICATIONS OF VISITING FASHION BRAND EXHIBITION	Minju Kim Kyu-Hye Lee*	Hanyang University, Korea Hanyang University, Korea
ECTFB-P-16	PERCEPTIONS AND BEHAVIORS OF CHINESE FEMALE CONSUMERS ON LIVESTREAM FASHION SHOPPING: GENERATIONAL DIFFERENCES	Heesook Hong* Seung-Eun Lee	Jeju National University, Korea Central Michigan University, USA
ECTFB-P-17	ATTITUDES TOWARD AGING AND LIFE SATISFACTION AMONG OLDER KOREAN ADULTS: THE MEDIATING EFFECT OF BODY APPRECIATION	Minsun Lee*	Konkuk University Glocal Campus, Korea

P No.	Title	Author	Affiliation
ECTFB-P-18	KOREAN ADAPTATION OF THE BODY APPRECIATION SCALE-2 FOR OLDER ADULTS	Minsun Lee*	Konkuk University Glocal Campus, Korea
ECTFB-P-19	A STUDY ON CLOTHING CARE PRACTICES USING BIG DATA ANALYSIS	Heekang Moon Chorong Youn Songmee Kim*	Pai Chai University, Korea Pusan National University, Korea Seoul National University, Korea
ECTFB-P-20	THE INFLUENCE OF VERBAL AND NON-VERBAL COMMUNICATION OF TV HOME SHOPPING SHOW HOST ON CUSTOMER PURCHASE INTENTION -THE MEDIATING EFFECT OF EMPATHY AND PRODUCT RELIABILITY-	Haeun Jeong* Mi Young Kim	Gachon University, Korea Gachon University, Korea
ECTFB-P-21	THE WANING ETHNOCENTRISM EFFECT ON CONSUMER'S LOCAL SUPPORT INTENTION THROUGHOUT THE PANDEMIC MARKET	Hyunjoo Im* Terry Haekyung Kim Yui An	University of Minnesota, USA University of Minnesota, USA University of Minnesota, USA
ECTFB-P-22	THE CURRENT STATUS OF AND THE DEMAND FOR HIGHER EDUCATION PROGRAMS IN FASHION IN MYANMAR	Min-Kyung Kang Yoon-Jung Lee* Hyojeong Lee Byoungho Ellie Jin Jaeil Lee	Korea University, Korea Korea University, Korea Kongju National University, Korea North Carolina State University, USA Seattle Pacific University, USA
ECTFB-P-23	IDENTIFYING EFFECTS OF SOCIAL MEDIA, BANDWAGON, AND NEED FOR UNIQUENESS ON MILLENNIAL AND GEN Z CONSUMERS' LUXURY BRAND SHOPPING	Ui-Jeen Yu* Eunjoo Cho Jihyun Kim-Vick	Illinois State University, USA University of Arkansas, USA Kent State University, USA
ECTFB-P-24	A STUDY ON SUSTAINABLE WASHING MACHINE USAGE BEHAVIORS OF KOREAN CONSUMERS APPLYING EXPERIENCE SAMPLING METHOD	Heekang Moon Sunwoo Kim*	Pai Chai University, Korea Seoul National University, Korea
ECTFB-P-25	THE ROLE OF LIVE STREAMING COMMERCE IN FASHION SHOPPING: A TEXT MINING APPROACH	Nalae Kim* Namhee Yoon Yoon-Jung Lee	Korea University, Korea Korea University, Korea Korea University, Korea
ECTFB-P-26	SHARING WEARABLE DEVICES IN THE AGE OF DIGITAL EXPERIENCE ECONOMY	Soyeon Bak Sae Eun Lee Kyu-Hye Lee*	Hanyang University, Korea Hanyang University, Korea Hanyang University, Korea

Session 3. Fashion Design & Cultural Study on Fashion

P No.	Title	Author	Affiliation
FDC-P-1	PERFORMING HISTORY IN NEW MEDIA ERA: NOSTALGIC FASHION CULTURE AMONG GENERATION Z IN KOREA	Dawool Jung Jisoo Ha*	Seoul National University, Korea Seoul National University, Korea
FDC-P-2	A SYUDY ON THE FASHION STATUS USING NFT TECHNOLOGY IN MATAVERSE	Yumin Eum* Mihyun Kim	Chung-Ang University, Korea Chung-Ang University, Korea
FDC-P-3	A STUDY ON VEGAN FASHION CONSUMER'S PERCEPTION THROUGH INSTAGRAM HASHTAGS ANALYSIS	Kyunghee Jung* Soojeong Bae	Chonnam National University, Korea Chonnam National University, Korea
FDC-P-4	ANALYSIS OF ONLINE NEWS MEDIA REPORTING TRENDS ON KOREAN FASHION-APPLYING DYNAMIC TOPIC MODELING-	Hyosun An Jiyoung Kim*	Ewha Womans University, Korea Chungbuk National University, Korea
FDC-P-5	ADOPTIONS OF BLOCKCHAIN TECHNOLOGY IN THE FASHION INDUSTRY	Haemin Yu Jaehoon Chun*	Seoul National University, Korea Seoul National University, Korea
FDC-P-6	A STUDY ON THE DIFFERENCE BETWEEN THE ROOTS OF HANBOK AND HANFU	Youngjoo Na* Jisu Kim	Inha University, Korea Inha University, Korea
FDC-P-7	THE DEVELOPMENT OF FASHION DESIGN USING THE FLUIDITY OF MADELEINE VIONNET AND ZAHA HADID	Hee jin Yun Yoon mi Choi*	Chungnam National University, Korea Chungnam National University, Korea
FDC-P-8	ANALYSIS OF THE EDUCATIONAL NEEDS OF THE KOREAN HANBOK INDUSTRY	Joomee Lee Kyo Young Lee Haejin Kwon* Jung Soo Lee*	Ewha Womans University, Korea Ewha Womans University, Korea Ewha Womans University, Korea Ewha Womans University, Korea
FDC-P-9	EXPRESSIONISTIC VISUAL AESTHETICS OF GENTLE MONSTER'S FASHION FILMS	Eunhyuk Yim* Mikyung Kim	Sungkyunkwan University, Korea Sungkyunkwan University, Korea
FDC-P-10	WHAT BOOSTS KOREAN ADOLESCENT MAKEUP CULTURE	Sunwoo Kim Su Jin Yang*	Seoul National University, Korea Sungshin Women's University, Korea
FDC-P-11	ENVIRONMENTAL PRACTICE EDUCATION PROGRAM DEVELOPMENT FOR HIGH SCHOOL STUDENTS USING OLD T-SHIRTS	Bo Kyung Kang Nalae Kim Gushchina Ksenia Yhe-Young Lee*	Korea University, Korea Korea University, Korea Korea University, Korea Korea University, Korea
FDC-P-12	FASHION DESIGN HYBRIDIZATION AND COMPLEXITY: A CASE OF THE HACKER PROJECT	Sejin Kim*	Changwon National University, Korea
FDC-P-13	MONGOLIAN FELT APPLIQUE – THE FUNDAMENTALS OF THANGKA PAINTING	Tumenkhisig Purevdorj* Bayarjargal Vanchinsuren	Mongolian National University of Education, Mongolia Mongolian National University of Education, Mongolia
FDC-P-14	TYPES AND FORMS OF CLOTHES IMPORTED FROM JAPAN DURING THE PORT-OPENING ERA	Soon-Young Kim*	Jeonbuk National University, Korea
FDC-P-15	ANALYSIS THE RITUAL IMAGE COMMUNICATION ON CONSPICUOUSNESS OF FASHION CONSUMPTION ON INSTAGRAM	Hee young Kim*	Kyungin Women's University, Korea
FDC-P-16	ANALYSIS OF VIRTUAL INFLUENCERS' ATTRACTIVE PHYSICAL APPEARANCE ON SOCIAL MEDIA	Jee Hong Pak Jisoo Ha*	Seoul National University, Korea Seoul National University, Korea
FDC-P-17	PERCEPTION OF THE USE OF GENERATIVE ADVERSARIAL NETWORKS OF ARTIFICIAL INTELLIGENT IN FASHION DESIGN	Yoon Kyung Lee*	Seoul National University, Korea
FDC-P-18	CHARATERISTIC ANALYSIS ON FASHION COORDINATION DATASET ACCORDING TO CLASSIFICATION OF FASHION EMOTION	Nanghee Park Yoonmi Choi*	Chungnam National University, Korea Chungnam National University, Korea
FDC-P-19	WHAT IS K-FASHION FROM FOREIGN PERSPECTIVES?	Han Bin Yoo Jisoo Ha*	Seoul National University, Korea Seoul National University, Korea

P No.	Title	Author	Affiliation
FDC-P-20	A STUDY ON CHARACTERISTICS OF COLOR TRENDS SEEN IN MENSWEAR COLLECTIONS BY CITY-FOCUSED ON MENSWEAR COLLECTIONS PRESENTED IN PARIS, MILAN, NEW YORK, TOKYO, AND LONDON FROM 2010 TO 2019-	Shin-Young Lee*	Dong-A University, Korea
FDC-P-21	AVATAR IDENTITY AND VIRTUAL FASHION EXPRESSION OF METAVERSE PLATFORM USERS: FOCUSING ON SELF-IDENTITY AND SOCIAL CAPITAL THEORIES	Se Na Kim* Kyung Wha Oh	Chung-Ang University, Korea Chung-Ang University, Korea

Session 4. Textile Science & Technology

P No.	Title	Author	Affiliation
TST-P-1	CIRCUIT-TO-CIRCUIT CONNECTION USING CONDUCTIVE YARN STITCHES IN EMBROIDERED CIRCUIT PATTERNING PROCESS	Jung-Sim Roh* Hyobin Im	Sangmyung University, Korea Sangmyung University, Korea
TST-P-2	KOREAN AND CHINESE CONSUMERS' UNDERSTANDING OF ANTIBACTERIAL FUNCTIONS AND PRODUCTS	Xi Chen Shinjung Yoo*	Kyung Hee University, Korea Kyung Hee University, Korea
TST-P-3	MANUFACTURING OF TEMPERATURE-SENSITIVE SHAPE MEMORY THERMOPLASTIC POLYURETHANE (SMTPU) BY SYNTHESIS AND BLENDING	Eun Joo Shin* Hyeong Yeol Choi Sunhee Lee	Dong-A University, Korea Dong-A University, Korea Dong-A University, Korea
TST-P-4	METHOD OF INTEGRATING SMD LED INTO TEXTILES IN CONDUCTIVE YARN EMBROIDERED CIRCUIT PATTERNING PROCESS	Jung-Sim Roh*	Sangmyung University, Korea
TST-P-5	CHARACTERIZATION OF CONDUCTIVE 3D PRINTED FINGER TIPS MANUFACTURED BY FUSED DEPOSITION MODELLING 3D PRINTER	Zhao Kai Yun Jeong Yang Hyeong Yeol Choi Sunhee Lee*	Dong-A University, Korea Dong-A University, Korea Dong-A University, Korea Dong-A University, Korea
TST-P-6	A STUDY ON OPTIMIZATION OF DYE COMBINATION WITH HIGH LIGHT FASTNESS USING THE MACHINE LEARNING OF AI	Namju Park Junheon Lee Duyoung Kim Soyoung Kim Taekyeong Kim*	Kyungpook National University, Korea Kyungpook National University, Korea Kyungpook National University, Korea Kyungpook National University, Korea Kyungpook National University, Korea
TST-P-7	SYNCHRONIZATION EMG WITH IMU SENSORS USING TEXTILE ELECTRODES	BonHak Koo SangUn Kim Jooyong Kim*	Soongsil University, Korea Soongsil University, Korea Soongsil University, Korea
TST-P-8	EVALUATION OF MOISTURE TRANSPORT PROPERTIES OF MULTILAYERED TEXTILE SYSTEMS FOR FUNCTIONAL MOISTURE-WICKING TEXTILES	Yera Choi Seungsin Lee*	Yonsei University, Korea Yonsei University, Korea
TST-P-9	SIGNAL PROCESSING USING A PIEZO RESISTIVE TEXTILE STRAIN SENSOR MOVING AVERAGE FILTERING METHOD TO PREVENT CARPAL TUNNEL SYNDROME	SeungJeon Kim SangUn Kim SeHwan Chun JooYong Kim*	Soongsil University, Korea Soongsil University, Korea Soongsil University, Korea Soongsil University, Korea
TST-P-10	MANUFACTURING LARGE AREA REPEATED CAPACITIVE TEXTILE TOUCH SENSOR WITH JACQUARD PROCESSING	Jooyong Kim* Sangun Kim	Soongsil University, Korea Soongsil University, Korea
TST-P-11	MECHANICAL PROPERTIES OF COTTON NONWOVEN COATED USING CARBOXYMETHYLATED CELLULOSE NANOFIBRILS AS A BEAUTY FACIAL SHEET	Song Mi Lee Hyeong Yeol Choi*	Dong-A University, Korea Dong-A University, Korea

P No.	Title	Author	Affiliation
TST-P-12	COMPRESSIBLE POLYURETHANE FOAMS COATED WITH 2D MATERIALS FOR TRIBOELECTRIC NANOGENERATOR	Joo Hyung Lee* Seong Hun Kim Kyung Wha Oh	Hanyang University, Korea Hanyang University, Korea Chung-Ang University, Korea
TST-P-13	SYNTHESIS OF VOCS SENSING DYES WITH SOLID-SOLVATOCHROMIC AND AGGREGATIVE CHARACTERISTICS AND APPLICATION TO TEXTILE SENSORS	Junheon Lee Namju Park Duyoung Kim Soyoung Kim Taekyeong Kim*	Kyungpook National University, Korea Kyungpook National University, Korea Kyungpook National University, Korea Kyungpook National University, Korea Kyungpook National University, Korea
TST-P-14	PHOTOTHERMAL EFFECT OF CONJUGATED POLYMER NANOPARTICLES ON THE CAPACITANCE OF PVDF-TrFE BASED THIN FILM	Unhyeong Lee Juhyun Park Kyung Wha Oh*	Chung-Ang University, Korea Chung-Ang University, Korea Chung-Ang University, Korea
TST-P-15	CHARACTERIZATION OF 3D PRINTED WRIST BRACE WITH VARIOUS TILTING ANGLES OF RE-ENTRANT PATTERN USING THERMOPLASTIC ELASTOMER	Ye-eun Park Hyejin Lee Imjoo Jung Sunhee Lee*	Dong-A University, Korea Dong-A University, Korea Dong-A University, Korea Dong-A University, Korea
TST-P-16	CHARACTERIZATION OF EMBROIDERED TEXTILE ELECTRODE FOR EMG SMART WEAR - FOCUSED ON THE STITCH TECHNIQUE -	Hyelim Kim Soohyeon Rho Daeyoung Lim Wonyoung Jeong*	Korea Institute of Industrial Technology, Korea Korea Institute of Industrial Technology, Korea Korea Institute of Industrial Technology, Korea Korea Institute of Industrial Technology, Korea
TST-P-17	AROMA RELEASING CHARACTERISTICS OF SEA BUCKTHORN FRUIT OIL MICROCAPSULES ON KNITS USING ELECTRONIC NOSE	Sarmandakh Badmaanyambuu Eunjou Yi*	Jeju National University, Korea Jeju National University, Korea
TST-P-18	EFFECTS OF ULTRASONIC WASHING ON COTTON AND SILK	Jeongwon Mun* Jungsoon Lee	Chungnam National University, Korea Chungnam National University, Korea
TST-P-19	WHAT IS GREEN FABRIC? A TEXT ANALYSIS APPROACH	Naan Ju Seong Hun Kim*	Hanyang University, Korea Hanyang University, Korea

Directions



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From Seoul Station

- By Taxi: About 20 minutes
- By Subway: About 25 minutes. Take Line 1, transfer to Line 6 at Dongmyo Station, and exit at Korea University or Anam Station

From Yongsan Station

- By Taxi: About 30 minutes
- By Subway: About 30 minutes. Take Line 1, transfer to Line 6 at Dongmyo Station, and exit at Korea University or Anam Station

Exit Info of Each Subway Station

Subway Station & Exit Gate No.	Exit	
Korea University Station, Line 6	No. 1	KU's Seoul Campus (Humanities and Social Science area)
Anam Station (Korea University Hospital), Line 6	No. 4	KU's Seoul Campus (Natural Science area), KU's Medical Center
	No. 2	Rear gate of KU's College of Political Science and Economics
Gileum Station, Line 4	No. 3	KU's Seoul Campus (College of Health Sciences) Transfer to bus no. 1011, 110 (Kukmin University), 1112, 1213, and 171

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THE Journal

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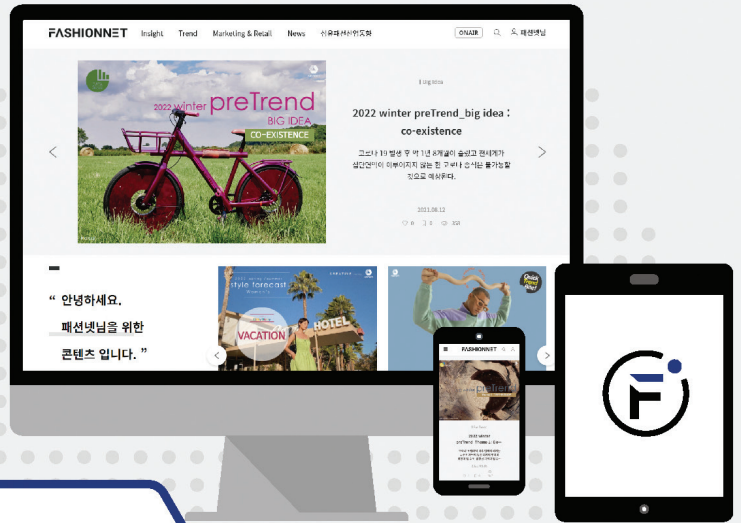
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**Big Data • AI
Based
Trend Analysis**



Contents

Insight

- 트렌드에 영향을 주는 다양한 요소들을 분석한 인사이트 정보

Lifestyle | Sustainability | Innovation

Trend

- 시즌 기획에 영감을 주는 데이터 기반 트렌드 정보

Trend Now | Trend Forecast | SNS 트렌드 | 패션 이미지 검색

Runway | E-commerce | Quick Trend Bite
Big Idea | Pre Trend | Color | Fabric | Style

Marketing & Retail

- 섬유패션마켓의 주요 이슈 및 동향 정보

마켓&리테일 동향 | 글로벌 이슈 | 마케팅 전략

News

- 섬유패션 뉴스 및 패션넷 공지, 세미나, 웹진 정보

Daily News | 패션넷 Notice | 세미나 | 웹진

Current Issues of the Textile • Fashion Industry

- 섬유패션 관련 통계 데이터 및 보고서

국내마켓리서치보고서
섬유패션통계 | 글로벌 시장동향

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소재부품 신뢰성 센터

- ▶ 섬유소재 분야의 기술개발을 위해 설계부터 완제품까지 One-stop 평가 분석 서비스를 통한 종합 솔루션을 제공함
- ▶ 시뮬레이션을 통해 소재/제품을 설계, 해석하고 성능을 사전에 조기진단 예측하여 제품 개발지원 서비스를 제공함
- ▶ 섬유소재의 신뢰성 확보를 위해 구축된 시스템을 통한 고장원인 분석 및 내구 수명으로부터 도출된 설계 가이드를 제공함



‘소재·부품’ 기초 단위별 요구 성능 및 완제품의 실사용 환경에서의 요구 성능 검증을 위한

전주기적(소재 · 부품 · 완제품) 성능 평가지원



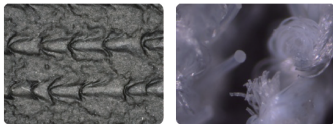
문제부위 연계 분석

Digital Microscope



- ▶ 비파괴
- ▶ 거시
- ▶ 표면분석

▶ 다양한 대물렌즈 및 각도에서 표면 구조 분석이 가능한 디지털 현미경

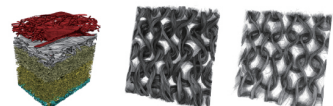


Micro-CT



- ▶ 비파괴
- ▶ 미시
- ▶ 표면분석
- ▶ 내부분석

▶ 비파괴 방식으로 고해상도의 삼차원 이미지 제공이 가능한 3D X-ray 현미경

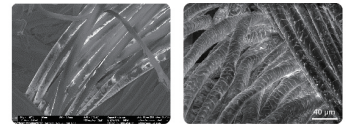


FIB-SEM

- ▶ 파괴
- ▶ 미시
- ▶ 표면분석
- ▶ 내부분석



▶ 2D/3D 표면 및 내부 구조 관찰이 가능하며 극저온환경에서도 분석이 가능한 주사전자현미경

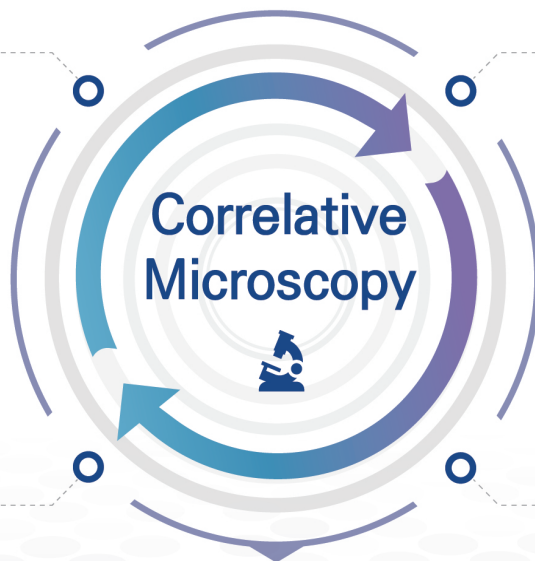
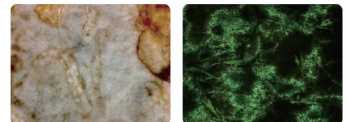


Confocal Microscope

- ▶ 비파괴
- ▶ 미시
- ▶ 표면분석



▶ 표면조도, 입체정보 및 형광분석 등이 가능한 공초점 현미경



Correlative Microscopy

시료 내 ROI(Region on Interest)를 파악한 위치정보 공유 및 Targeting 연계분석



2020
ECO FLEECE



2016
BOOTIE BOOTS



1989
DENALI JACKET



1986
BASE CAMP DUFFLE BAG



2008
HIMALAYAN PARKA



2014
VX JACKET



1994
HIMALAYAN SUIT



1998
SUMMIT JACKET



1985
MOUNTAIN JACKET



2019
HIMALAYAN COAT



2020
HEXA NEO



2001
McMURDO DOWN JACKET



1975
OVAL INTENTION TENT



2019
SUPER AIR DOWN COAT

HISTORY OF INNOVATION

노스페이스는 지난 반세기동안 탐험과 도전의 DNA를 가진 인간을 위한 조력자로서 혁신의 역사를 거듭해왔습니다. 앞으로도 끊임없는 혁신과

Design Science의 진화를 통해 자연을 탐험하고 한계에 도전하는 이들의 열렬한 지지자가 되겠습니다.



국가고객만족도 (NCSI)
아웃도어부문 7년 연속1위
(2014~2020)



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