# 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 |
| | Lee, Suhyun | Jeonbuk National University, KOREA |
| | Lee, Jung Soo | Ewha Womans University, KOREA |
| | 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<br><br>***Frontiers in the Field of Textile Technology***<br><br>Co-Chairs: Dr. Su-Young Son, Kyungpook National University<br>Dr. Takako Fukazawa, Kyoto University of Education | |
| 10:40~10:50 | Break | |
| 10:50~13:30 | KSCT - ITC(HK) Joint Symposium<br><br>***Fashion Tech: Reshaping the Future***<br><br>Co-Chairs: Dr. Changsang Yun, Ewha Womans University<br>Dr. Sun Young Choi, The Hong Kong Polytechnic University | |
| 13:30~14:30 | **Information Sessions:**<br><br>• Studying in the School of Fashion and Textiles at the Hong Kong Polytechnic University<br>  - Dr. Sun Young Choi,<br>    The Hong Kong Polytechnic University, Hong Kong<br><br>• Study Abroad in Japan<br>  - Dr. Su-Young Son,<br>    Kyungpook National University, Korea | **Tips for getting a faculty or post-doc position in the U.S.**<br><br>- Dr. Byoungho Ellie Jin<br>  North Carolina State University, USA |
| 14:40~16:20 | **Graduate Student Research Competition**<br><br>• Session 1: Clothing Science / Textiles Science<br>  Chair: Dr. Dong-Eun Kim, Ewha Womans University<br><br>• Session 2: Fashion Marketing / Fashion Design<br>  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)**<br>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:**<br>(Presider: Eunah Yoh, Kyemyoung University) | |
| 09:50~10:10 | **Greetings:** Dr. Kyung Wha Oh (President, Korean Society of Clothing and Textiles)<br><br>**Congratulatory Messages** | Presider:<br>Juyeon Park,<br>Seoul National University |
| 10:10~11:00 | **Keynote Speech 1: The Future of  Fashion**<br><br>Dr. Valerie Steele (Director, The Museum at FIT, USA) | |
| 11:00~11:10 | Break | |

# 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**<br><br>Dr. Thomas Gries (Professor, Aachen University, Germany) | Presider:<br>Heekang Moon,<br>Pai Chai University |
| 12:00~12:50 | **Keynote Speech 3: From Makers to Retailers to Customers: How AI-driven Operation Changes Manufacturing and Retail Industries**<br><br>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)**

| Time | | |
|---|---|---|
| 14:30~15:10 | **Clothing & Culture**<br>(KYH Hall & Online)<br>Presider: Yhe-Young Lee, Korea University | **Textiles & Technology**<br>(Rm331 & Online)<br>Presider: Jooyoun Kim, Seoul National University |
| | **Scholarly Discourse on the Metaverse: Current State and Future Possibilities for Fashion Retailing**<br><br>Dr. Hyeyoung Kim<br>(Professor, University of Minnesota, USA) | **Asics Latest Technology in Sporting Goods and its Near Future**<br><br>Dr. Makoto Fukuda<br>(Manager, Asics Institute of Sport Science, Japan) |
| 15:10~15:50 | **Hybrid Fashion - Tech Education Model for Smart Textiles**<br><br>Dr. Marie Chae<br>(Post-Doc Researcher, Delft University of Technology, Netherland) | **Materials and Inclusivity: Designing intelligent textiles for multi-sensory environments**<br><br>Dr. Jeanne Tan<br>(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)**

| Time | Special Topic Session1 (Online) | Special Topic Session2 (Online) | Special Topic Session3 (Online) | Oral Session1 (Online) | Oral Session2 (Online) | Oral Session3 (KYH Hall/ Online) | Oral Session4 (Online) | Oral Session5 (Rm331/ Online) |
|---|---|---|---|---|---|---|---|---|
| 16:10~17:30 | Presider: Dr. JiHyun Bae, Hanyang University | Presider: Dr. Hana Lee, Korea University | Presider: Dr. You-Kyum Kim, FITI Testing & Research Institute | Chair: Dr. Kyung Hwa Hong, Kongju National University | Chair: Dr. Dong-Eun Kim, Ewha Womans University | Chair: Dr. MiYoung Lee, Inha University | Chair: Dr. Yoojin Kwon, Korea National Open University | 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 |

| Time | Activity | |
|---|---|---|
| 17:30~18:00 | **Poster Presentations Q&A**<br><br>Chair: Dr. Minjung Park, Ewha Womans University | |
| 18:00~19:00 | **Graduate Student Research Competition & Best Paper Awards Ceremony**<br><br>Presider: Juyeon Park, Seoul National University | Location:<br>KYH Hall / Online |

# Speakers

## 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).
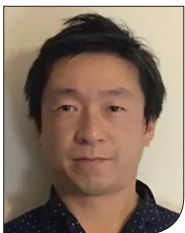
### Dr. Makoro Fukuda, Japan
**Asics Institute of Sport Science**

**"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 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.
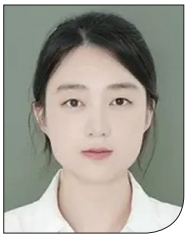
### Prof. Naan Ju, Korea
**Hanyang University**

**"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 (Horns) 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.
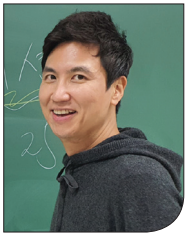
### Prof. Jaehong Park, Korea
**Korea University**

**"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 ntrepreneur"**

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*<br>Haruka Suzuki<br>Koh Mizuno | Wayo Women's University, Japan<br>Wayo Women's University, Japan<br>Tohoku Fukushi University, Japan |
| JK-O-2 | A COOLING VEST USING MOISTURE EVAPORATION FUNCTION TO PREVENT HEAT STROKE | Riho Sakashita*<br>Sae Kobayashi<br>Natsuho Iitsuka<br>Harumi Morooka | Kyoto Women's University, Japan<br>Kyoto Women's University, Japan<br>Graduate School of Kyoto Women's University, Japan<br>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*<br>Shizuo IWAMOTO<br>Yuta KITAHATA<br>Keita YAMAZAKI<br>Yasuhiro SHIMAZAKI<br>Kouhei KUWABARA | Kanagawa University, Japan<br>Kanagawa University, Japan<br>Kanagawa University, Japan<br>Takenaka Corporation, Japan<br>Toyohashi University of Technology, Japan<br>Muroran Institute of Technology, Japan |
| JK-O-4 | MEASUREMENT OF JACKET STRAIN DISTRIBUTION ON DIFFERENT SHIRTS DURING ARM MOVEMENTS | KyoungOk Kim*<br>Mizuki Yamakoshi<br>Masayuki Takatera | Shinshu University, Japan<br>Shinshu University, Japan<br>Shinshu University, Japan |
| JK-O-5 | EFFECT OF VAPOR PERMEABILITY AND OPENING DESIGN OF OUTDOOR PARKA AND ENVIRONMENTAL VELOCITY ON ITS VAPOR TRANSFER AND VENTILATIN RATE-USING SWEATING THERMAL MANIKIN AND TRACER GAS METHODS- | Yayoi Satsumoto*<br>Takuya Aoyagi<br>Ayano Dempoya<br>Tomoko Koshiba<br>Teruko Tamura | Yokohama National University, Japan<br>Yokohama National University, Japan<br>Kanagawa University, Japan<br>Bunka Gakuen University, Japan<br>Bunka Gakuen University, Japan |
| JK-O-6 | EVALUATION OF THERMOREGULATION RESPONSES USING POLYESTER AND CELLULOSIC HIJABS IN HOT CLIMATES | Syifa Salsabila*<br>Maria Stenkina<br>Joo-Young Lee<br>Sabrina Ilma Sakina | Seoul National University, Korea<br>Seoul National University, Korea<br>Seoul National University, Korea<br>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*<br><br>Fumiko Kakihara<br>Koji Koizumi | Okinawa Institute of Science and Technology Graduate University (OIST), Japan<br>Japan Women's University, Japan<br>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*<br>Michiko Ohtsuka | Japan women's University, Japan<br>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* | Tokyo Metropolitan Industrial Technology research Institute, Japan |
| | | Eiichi F. Mine | Tokyo Metropolitan Industrial Technology research Institute, Japan |
| | | Yoshio Kobayashi | Ibaraki University, Japan |
| JK-P-5 | STABILITY OF ELECTRICAL RESISITANCE OF A TEXTILE CRACK SENSOR UNDER ACCELERATED WEATHERING TEST | Eiichi F. Mine* | Tokyo Metropolitan Industrial Technology Research Institute, Japan |
| | | Kengo Kubotera | Tokyo Metropolitan Industrial Technology Research Institute, Japan |
| | | Yoichi Ito | Tokyo Metropolitan Industrial Technology Research Institute, Japan |
| | | Tomotaro Watanabe | Tokyo Metropolitan Industrial Technology Research Institute, Japan |
| | | Tatsuro Sakamoto | Railway Technical Research Institute, Japan |
| | | Akira Suzuki | 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* | Osaka Shoin Women's University, Japan |
| | | Natsuko Mizuno | Osaka Shoin Women's University, Japan |
| | | Masashi Kobayashi | 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* | Seoul National University, Korea |
| | | Joo-Young Lee | Seoul National University, Korea |
| | | Kyung Wha Oh | Chung-Ang University, Korea |
| JK-P-9 | DEVELOPMENT OF AN APPAREL SEWING LINE SIMULATOR FOR FLEXIBLE PRODUCTION | Minsuk Kim | Seoul National University, Korea |
| | | Sungmin Kim* | Seoul National University, Korea |
| JK-P-10 | A SURVEY STUDY ON THE COMFORT OF COMMUTING SHOES: FOCUSED ON 20S AND 30S | Min Jung Kim | Kyung Hee University, Korea |
| | | Sojin Jung | Kyung Hee University, Korea |
| | | Shinjung Yoo* | 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 | Chungnam National University, Korea |
| | | Jeongsoon Lee* | Chungnam National University, Korea |
| JK-P-12 | EVALUATION OF THE POWER GENERATION EFFICIENCY OF THE ELECTROMAGNETIC ENERGY HARVESTING JACKET | Jung-Sim Roh* | Sangmyung University, Korea |
| | | Hyewon Lee | 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* | The Hong Kong Polytechnic University, Hong Kong |
| | | | Tsai-Chun HUANG | 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 | Yonsei University KIURI Institute, Korea |
| | | | Jeongyeon Lee* | 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 | The Hong Kong Polytechnic University, Hong Kong |
| | | | Jiaqi Zhang | The Hong Kong Polytechnic University, Hong Kong |
| | | | Yhe-Young Lee* | 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 | The Hong Kong Polytechnic University, Hong Kong |
| | | | Hayeun Jang* | Busan University of Foreign Studies, Korea |
| | | | Do Yoon Kim | Auburn University, USA |
| IK-P-4 | 2 | DO CONSUMERS FEEL EMPOWERED BY SHOPPING SECOND-HAND LUXURY FASHION ONLINE? | Chung Wha (Chloe) Ki * | The Hong Kong Polytechnic University, Hong Kong |
| | | | Ju Yeun Jang | The Hong Kong Polytechnic University, Hong Kong |
| | | | Shuang Zhou | 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 | Seoul National University, Korea |
| | | | Miah Lee* | 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 | Ewha Womans University, Korea |
| | | | Minjung Park* | Ewha Womans University, Korea |
| IK-P-9 | 2 | CROSS-BORDER ONLINE SHOPPING: US CONSUMERS' INTENTION TO SHOP ON KOREAN SITE | Heesoon Yang | Sangmyung University, Korea |
| | | | Hye Jung Jung* | Seoul National University, Korea |
| | | | Chorong Youn | Pusan National University, Korea |
| | | | Yun Jung Choi | 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<br><br>Hyelim Kim<br><br>Daeyoung Lim<br><br>Wonyoung Jeong* | Korea Institute of Industrial Technology, Korea<br>Korea Institute of Industrial Technology, Korea<br>Korea Institute of Industrial Technology, Korea<br>Korea Institute of Industrial Technology, Korea | Textile Science & Technology |
| G2 | DESIGNING A SMART CUSHION FOR ELDERLY WHEELCHAIR USERS TO RECOGNIZE FALL DETECTION | Kyeongeui Baek<br>Jubi Ha<br>Woojae Jeong<br>Sujin Song<br>Mee Jekal* | Hanyang University, Korea<br>Hanyang University, Korea<br>Hanyang University, Korea<br>Hanyang University, Korea<br>Hanyang University, Korea | Textile Science & Technology |
| G3 | STUDY ON THE SUSTAINABLE DYEING PROCESS USING SPENT COFFEE GROUNDS | Dong Ju Yu<br><br>Changsang Yun* | Ewha Womans University, Korea<br>Ewha Womans University, Korea | Textile Science & Technology |
| G4 | CUSTOMIZATION OF THE 3D PRINTED 3-POINTED STAR POROUS PARAMETRIC OUTSOLE DESING BY GRASSHOPPER | Xiaokui Chen<br>Sunhee Lee* | Dong-A University, Korea<br>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<br><br>Changsang Yun* | Ewha Womans University, Korea<br>Ewha Womans University, Korea | Textile Science & Technology |
| G6 | PREPARATION AND EVALUATION OF GRAPHENE/POLYVINYL ALCOHOL COATED THERMPLASTIC ELASTOMER FILAMENT FOR FDM 3D PRINTER | Imjoo Jung<br>Sunhee Lee* | Dong-A University, Korea<br>Dong-A University, Korea | Textile Science & Technology |
| G7 | AUTOMATIC PARAMETRIZATION OF GRADING PATTERNS | Jihyun Oh<br><br>Sungmin Kim* | Seoul National University, Korea<br>Seoul National University, Korea | Clothing Science and Technol |
| G8 | POTENTIAL CHALLENGES OF COLLABORATIVE ROBOT IMPLEMENTATION IN GARMENT FACTORIES | Kim Phung Nguyen*<br><br>Yoon Jin Ma | Illinois State University, USA<br><br>Illinois State University, USA | Clothing Science and Technology |
| G9 | EVALUATING THE EXTENDED COMFORT OF MULTILAYER FACE COVERINGS | Katarina Goodge*<br>Albert Lin<br>Ruobai Xiao | Cornell University, USA<br>Cornell University, USA<br>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<br><br>Eunsoo Baek* | The Hong Kong Polytechnic University, Hong Kong<br><br>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*<br><br>Hyunjoo Im | University of Minnesota, USA<br><br>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*<br>Li Zhao<br>Sharan Srinivas | University of Missouri, USA<br>University of Missouri, USA<br>University of Missouri, USA | Economics of Clothing & Textiles/Fashion Business |
| G15 | TRANSPARENT CORPORATE SOCIAL RESPONSIBILITY COMMUNICATION ON SOCIAL MEDIA | Angie Lee*<br>Te-Lin Doreen Chung | Iowa State University, USA<br>Iowa State University, USA | Economics of Clothing & Textiles/Fashion Business |
| G16 | WHO ACCEPTS THE GROTESQUE CONCEPT IN MARKETING? | Hyunah Lee*<br><br>Sujin Yang | Sungshin Women's University, Korea<br>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<br>Namhee Yoon*<br>Yoon-Jung Lee | Korea University, Korea<br>Korea University, Korea<br>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<br>Soyeong Lee<br>Hongjoo Woo* | Yonsei University, Korea<br>Yonsei University, Korea<br>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*<br><br>Yoon-Jung Lee | Korea University Graduate School, Korea<br>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<br><br>Minjung Park* | Ewha Womans University, Korea<br>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<br><br>Yoon Jin Ma* | Illinois State University, USA<br><br>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*<br><br>Byoungho Ellie Jin | North Carolina State University, USA<br>North Carolina State University, USA | Economics of Clothing and Textiles/ Fashion Business |
| G23 | HOW FASHION EXHIBITIONS ARE CURATED ONLINE | Soojung Kang<br><br>Jaehoon Chun* | Seoul National University, Korea<br>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 ENERTY-HARVESTING TEXTILES | Hyewon Lee* <br> Jung-Shim Roh | Catholic University, Korea <br> Sangmyung University, Korea |
| TST-O-1 | RECYCLABLE MIL-100(Fe) HYBRID NANOCOMPOSITES FOR ADSORPTION AND PHOTODEGRADATION OF WATER CONTAMINANTS | Halim Lee <br> Soyeon Ahn <br> Jooyoun Kim* | Seoul National University, Korea <br> Seoul National University, Korea <br> 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 <br> Yaewon Park* | Yonsei University, Korea <br> 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 <br> Hanjou Park <br> Jooyoun Kim <br> Yaewon Park* | Yonsei University, Korea <br> Seoul National University, Korea <br> Seoul National University, Korea <br> 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* <br> Yining Chen <br> Jung Hyun Park <br> Emiel DenHartog | North Carolina State University, USA <br> North Carolina State University, USA <br> Pai Chai University, Korea <br> 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* <br><br> Biswapati Chatterjee | Government College of Engineering and Textile Technology Serampore, India <br> Government College of Engineering and Textile Technology Serampore, India |
| CST-O-3 | PREPARATION OF COLORED MULTIFUCTIONAL COTTON FABRICS BY USING AQUEOUS EXTRACTS OF POMEGRANATE RIND, ONION PEEL AND TURMERIC ROOT | Kyung Hwa Hong* <br> Md Morshedur Rahman <br> Joonseok Koh | Kongju National University, Korea <br> Kongju National University, Korea <br> 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*<br>Kyu-Hye Lee | Hanyang University, Korea<br>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<br><br>Eunsoo Baek* | The Hong Kong Polytechnic University, Hong Kong<br>Hanyang University, Korea |
| BACT-O-2 | AVATAR MEDIATED EXPERIENCE IN METAVERSE: THE ROLE OF AVATAR REALISM | Do Yuon Kim*<br>Kyunghwa Chung<br>Ha Kyung Lee | Auburn University, USA<br>Vin University, Vietnam<br>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*<br>Shin Young Jang | Seoul National University, Korea<br>Seoul National University, Korea |
| THE-O-2 | 3D HUMAN POSE RECOGNITION USING MEDIAPIPE POSE AND UDEAS | Jong-Wook Kim*<br>Young-Lim Cho | Dong-A University, Korea<br>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<br>Kyu-Hye Lee*<br>Song-yi Youn | Hanyang University, Korea<br>Hanyang University, Korea<br>University of Missouri, USA |
| CSR-O-3 | THE EFFECT OF OWNERSHIP DURATION IN FACILITATING SECONDHAND FASHION CONSUMPTION: A CROSS-CULTURAL STUDY | Naeun Lauren Kim*<br>Terry Haekyung Kim<br>Byoungho Ellie Jin | University of Minnesota, USA<br>University of Minnesota, USA<br>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<br>Stacy Lee* | University of North Texas, USA<br>Texas Tech University, USA |
| CST-P-2 | DESIGNING A HAND-SHAPED CONTROLLER FOR SHAPE MEMORY THERMOPLASTIC POLYURETHANE CONTROL | Young-Lim Choi<br>Jong-Wook Kim* | Dong-A University, Korea<br>Dong-A University, Korea |
| CST-P-3 | DEVELOPMENT OF HELMET DESIGN SYSTEM FOR PLAGIOCEPHALY USING THREE-DIMENSION HEAD SCAN DATA | Yeonghoon Kang<br>Hyeryeon Park<br>Sungmin Kim* | Seoul National University, Korea<br>Seoul National University, Korea<br>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<br>Juyeon Park* | Seoul National University, Korea<br>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<br>Jee Hyun Lee* | Seoul National University, Korea<br>Yonsei University, Korea |
| CST-P-7 | DETERMINIG USER PREFERENCES OF VIRTUAL AVATARS IN THE FASHION METAVERSE: THE EFFECT OF AVATAR REALITY AND CHARACTERISTICS OF COMPANIONS | Soun Cho<br>Minje Cho<br>Hyesu Yoo<br>Yeonwoo Hwang<br>Seowoo Kim<br>Juyeon Park* | Seoul National University, Korea<br>Seoul National University, Korea<br>Seoul National University, Korea<br>Seoul National University, Korea<br>Seoul National University, Korea<br>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<br>Stacy Lee*<br>Yang Zhou<br>Li Zhao | Texas Tech University, USA<br>Texas Tech University, USA<br>Texas Tech University, USA<br>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<br>In Hwan Sul* | Kumoh National Institute of Technology, Korea<br>Kumoh National Institute of Technology, Korea |
| CST-P-11 | DEVELOPMENT OF A NEW HEADFORM SIZING SYSTEM FOR SCHOOL-AGE KOREAN CHILDREN | Ah Lam Lee<br>Hyun Jung Han* | Kyungpook National University, Korea<br>Chungbook 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<br>Seowoo Kim<br>Yesung Cho<br>Sohyun Lee<br>Juyeon Park* | Seoul National University, Korea<br>Seoul National University, Korea<br>Seoul National University, Korea<br>Seoul National University, Korea<br>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 ECOLGICAL PARADIGM AND CONSUMPTION MOTIVATIONS AND PATTERNS FOLLOWING THE COVID-19 | Hongjoo Woo*<br>Daeun Chloe Shin<br><br>Sojin Jung<br>Byoungho Ellie Jin | Yonsei University, Korea<br>North Carolina State University, USA<br>Kyung Hee University, Korea<br>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<br>Woo Bin Kim* | Daejeon University, Korea<br>Seoul National University, Korea |
| ECTFB-P-4 | THE AUTHENTICITY OF VIRTUAL FASHION INFLUENCER AND PARASOCIAL INTERACTION | Xuan-Kun Fan<br>Yoo Won Min<br>Kyu-Hye Lee* | Hanyang University, Korea<br>Hanyang University, Korea<br>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<br>Kyu-Hye Lee* | Hanyang University, Korea<br>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<br>Jiali Xie*<br>Ho Jung Choo | Seoul National University, Korea<br>Seoul National University, Korea<br>Seoul National University, Korea |
| ECTFB-P-7 | COMPETENCE AS A CO-CREATOR IN NEW PRODUCT DEVELOPMENT PROCESS USING A COLLABORATIVE PLATFORM | Namhee Yoon<br>Woo Bin Kim* | Korea University, Korea<br>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*<br><br>Eun Young Kim | Chungbuk National University, Korea<br>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*<br>Ji Hye Jeon | Kookmin University, Korea<br>Kookmin University, Korea |
| ECTFB-P-10 | THE EFFECT OF AVATAR-SELF INTEGRATION ON CONSUMERS' BEHAVIORAL INTENTION IN METAVERSE | Sumin Oh<br>Woo Bin Kim*<br>Ho Jung Choo | Seoul National University, Korea<br>Seoul National University, Korea<br>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<br>Chorong Youn* | Mokpo National University, Korea<br>Pusan National University, Korea |
| ECTFB-P-12 | EFFECTS OF SERVICE ATTRIBUTES AND MOTIVATION ON GOLFWEAR RENTAL SERVICE USAGE INTENTION | Songmee Kim<br>Yeo Jin Lee<br>Suyeon Park<br>Mineui Hong<br>Hyun Bin Ahn<br>Yuri Lee* | Seoul National University, Korea<br>Seoul National University, Korea<br>Seoul National University, Korea<br>Seoul National University, Korea<br>Seoul National University, Korea<br>Seoul National University, Korea |
| ECTFB-P-13 | CHINESE CONSUMER'S PURCHASE BEHAVIOR FOR ATHLEISURE WEAR | Fenrong Zhang*<br>Kyung Wha Oh | Chung-Ang University, Korea<br>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*<br><br>Hyun Jung Park | Chungbuk National University, Korea<br>Chungbuk National University, Korea |
| ECTFB-P-15 | ANALYZING THE MOTIVATION AND IMPLICATIONS OF VISITING FASHION BRAND EXHIBITION | Minju Kim<br>Kyu-Hye Lee* | Hanyang University, Korea<br>Hanyang University, Korea |
| ECTFB-P-16 | PERCEPTIONS AND BEHAVIORS OF CHINESE FEMALE CONSUMERS ON LIVESTREAM FASHION SHOPPING: GENERATIONAL DIFFERENCES | Heesook Hong*<br>Seung-Eun Lee | Jeju National University, Korea<br>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<br>Chorong Youn<br>Songmee Kim* | Pai Chai University, Korea<br>Pusan National University, Korea<br>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*<br>Mi Young Kim | Gachon University, Korea<br>Gachon University, Korea |
| ECTFB-P-21 | THE WANING ETHNOCENTRISM EFFECT ON CONSUMER'S LOCAL SUPPORT INTENTION THROUGHOUT THE PANDEMIC MARKET | Hyunjoo Im*<br>Terry Haekyung Kim<br>Yui An | University of Minnesota, USA<br>University of Minnesota, USA<br>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<br>Yoon-Jung Lee*<br>Hyojeong Lee<br>Byoungho Ellie Jin<br>Jaeil Lee | Korea University, Korea<br>Korea University, Korea<br>Kongju National University, Korea<br>North Carolina State University, USA<br>Seattle Pacific University, USA |
| ECTFB-P-23 | IDENTIFYING EFFECTS OF SOCIAL MEDIA, BANDWAGON, AND NEED FOR UNIQUNESS ON MILLENNIAL AND GEN Z CONSUMERS' LUXURY BRAND SHOPPING | Ui-Jeen Yu*<br>Eunjoo Cho<br>Jihyun Kim-Vick | Illinois State University, USA<br>University of Arkansas, USA<br>Kent State University, USA |
| ECTFB-P-24 | A STUDY ON SUSTAINABLE WASHING MACHINE USAGE BEHAVIORS OF KOREAN CONSUMERS APPLYING EXPERIENCE SAMPLING METHOD | Heekang Moon<br>Sunwoo Kim* | Pai Chai University, Korea<br>Seoul National University, Korea |
| ECTFB-P-25 | THE ROLE OF LIVE STREAMING COMMERCE IN FASHION SHOPPING: A TEXT MINING APPROACH | Nalae Kim*<br>Namhee Yoon<br>Yoon-Jung Lee | Korea University, Korea<br>Korea University, Korea<br>Korea University, Korea |
| ECTFB-P-26 | SHARING WEARABLE DEVICES IN THE AGE OF DIGITAL EXPERIENCE ECONOMY | Soyeon Bak<br>Sae Eun Lee<br>Kyu-Hye Lee* | Hanyang University, Korea<br>Hanyang University, Korea<br>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<br>Jisoo Ha* | Seoul National University, Korea<br>Seoul National University, Korea |
| FDC-P-2 | A SYUDY ON THE FASHION STATUS USING NFT TECHNOLOGY IN MATAVERSE | Yumin Eum*<br>Mihyun Kim | Chung-Ang University, Korea<br>Chung-Ang University, Korea |
| FDC-P-3 | A STUDY ON VEGAN FASHION CONSUMER'S PERCEPTION THROUGH INSTAGRAM HASHTAGS ANALYSIS | Kyunghee Jung*<br><br>Soojeong Bae | Chonnam National University, Korea<br>Chonnam National University, Korea |
| FDC-P-4 | ANALYSIS OF ONLINE NEWS MEDIA REPORTING TRENDS ON KOREAN FASHION-APPLYING DYNAMIC TOPIC MODELING- | Hyosun An<br>Jiyoung Kim* | Ewha Womans University, Korea<br>Chungbuk National University, Korea |
| FDC-P-5 | ADOPTIONS OF BLOCKCHAIN TECHNOLOGY IN THE FASHION INDUSTRY | Haemin Yu<br>Jaehoon Chun* | Seoul National University, Korea<br>Seoul National University, Korea |
| FDC-P-6 | A STUDY ON THE DIFFERENCE BETWEEN THE ROOTS OF HANBOK AND HANFU | Youngjoo Na*<br>Jisu Kim | Inha University, Korea<br>Inha University, Korea |
| FDC-P-7 | THE DEVELOPMENT OF FASHION DESIGN USING THE FLUIDITY OF MADELEINE VIONNET AND ZAHA HADID | Hee jin Yun<br><br>Yoon mi Choi* | Chungnam National University, Korea<br>Chungnam National University, Korea |
| FDC-P-8 | ANALYSIS OF THE EDUCATIONAL NEEDS OF THE KOREAN HANBOK INDUSTRY | Joomee Lee<br>Kyo Young Lee<br>Haejin Kwon*<br>Jung Soo Lee* | Ewha Womans University, Korea<br>Ewha Womans University, Korea<br>Ewha Womans University, Korea<br>Ewha Womans University, Korea |
| FDC-P-9 | EXPRESSIONISTIC VISUAL AESTHETICS OF GENTLE MONSTER'S FASHION FILMS | Eunhyuk Yim*<br>Mikyung Kim | Sungkyunkwan University, Korea<br>Sungkyunkwan University, Korea |
| FDC-P-10 | WHAT BOOSTS KOREAN ADOLESCENT MAKEUP CULTURE | Sunwoo Kim<br>Su Jin Yang* | Seoul National University, Korea<br>Sungshin Women's University, Korea |
| FDC-P-11 | ENVIRONMENTAL PRACTICE EDUCATION PROGRAM DEVELOPMENT FOR HIGH SCHOOL STUDENTS USING OLD T-SHIRTS | Bo Kyung Kang<br>Nalae Kim<br>Gushchina Ksenia<br>Yhe-Young Lee* | Korea University, Korea<br>Korea University, Korea<br>Korea University, Korea<br>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 | Tumenkhishig Purevdorj*<br><br>Bayarjargal Vanchinsuren | Mongolian National University of Education, Mongolia<br>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<br>Jisoo Ha* | Seoul National University, Korea<br>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<br><br>Yoonmi Choi* | Chungnam National University, Korea<br>Chungnam National University, Korea |
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| FDC-P-21 | AVATAR IDENTITY AND VIRTUAL FASHION EXPRESSION OF METAVERSE PLATFORM USERS: FOCUSING ON SELF-IDENTITY AND SOCIAL CAPITAL THEORIES | Se Na Kim*<br>Kyung Wha Oh | Chung-Ang University, Korea<br>Chung-Ang University, Korea |

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| TST-P-2 | KOREAN AND CHINESE CONSUMERS' UNDERSTANDING OF ANTIBACTERIAL FUNCTIONS AND PRODUCTS | Xi Chen<br>Shinjung Yoo* | Kyung Hee University, Korea<br>Kyung Hee University, Korea |
| TST-P-3 | MANUFACTURING OF TEMPERATURE-SENSITIVE SHAPE MEMORY THERMOPLASTIC POLYURETHANE (SMTPU) BY SYNTHSIS AND BLENDING | Eun Joo Shin*<br>Hyeong Yeol Choi<br>Sunhee Lee | Dong-A University, Korea<br>Dong-A University, Korea<br>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<br>Yun Jeong Yang<br>Hyeong Yeol Choi<br>Sunhee Lee* | Dong-A University, Korea<br>Dong-A University, Korea<br>Dong-A University, Korea<br>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<br>Junheon Lee<br>Duyoung Kim<br>Soyoung Kim<br>Taekyeong Kim* | Kyungpook National University, Korea<br>Kyungpook National University, Korea<br>Kyungpook National University, Korea<br>Kyungpook National University, Korea<br>Kyungpook National University, Korea |
| TST-P-7 | SYNCHRONIZATION EMG WITH IMU SENSORS USING TEXTILE ELECTRODES | BonHak Koo<br>SangUn Kim<br>Jooyong Kim* | Soongsil University, Korea<br>Soongsil University, Korea<br>Soongsil University, Korea |
| TST-P-8 | EVALUATION OF MOISTURE TRANSPORT PROPERTIES OF MULTILAYERED TEXTILE SYSTEMS FOR FUNCTIONAL MOISTURE-WICKING TEXTILES | Yera Choi<br>Seungsin Lee* | Yonsei University, Korea<br>Yonsei University, Korea |
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| TST-P-11 | MECHANIAL PREPERTIES OF COTTON NONWOVEN COATED USING CARBOXYMETHYLATED CELLULOSE NANOFIBRILS AS A BEAUTY FACIAL SHEET | Song Mi Lee<br>Hyeong Yeol Choi* | Dong-A University, Korea<br>Dong-A University, Korea |

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# Directions



## How to Reach Us

### From Incheon International Airport
- By Subway: Take Airport Railroad, transfer to Line 6 at Gongdeok Station, and exit at Korea University or Anam Station
- By Limousine Bus: Take bus no. 6101 and 6102 get off at Korea University or Sungrye Elementary School stop

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- By Subway: Take Airport Railroad, transfer to Line 6 at Gongdeok Station, and exit at Korea University or Anam Station
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### From Seoul Station
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### From Yongsan Station
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## 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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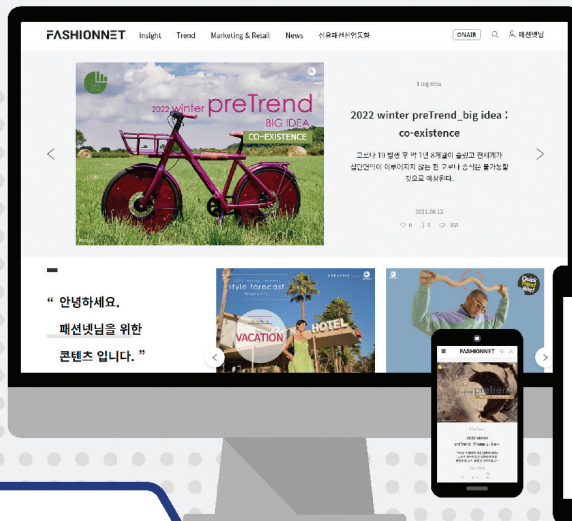
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### Current Issues of the Textile · Fashion Industry
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  사전에 조기진단 예측하여 제품 개발을 지원

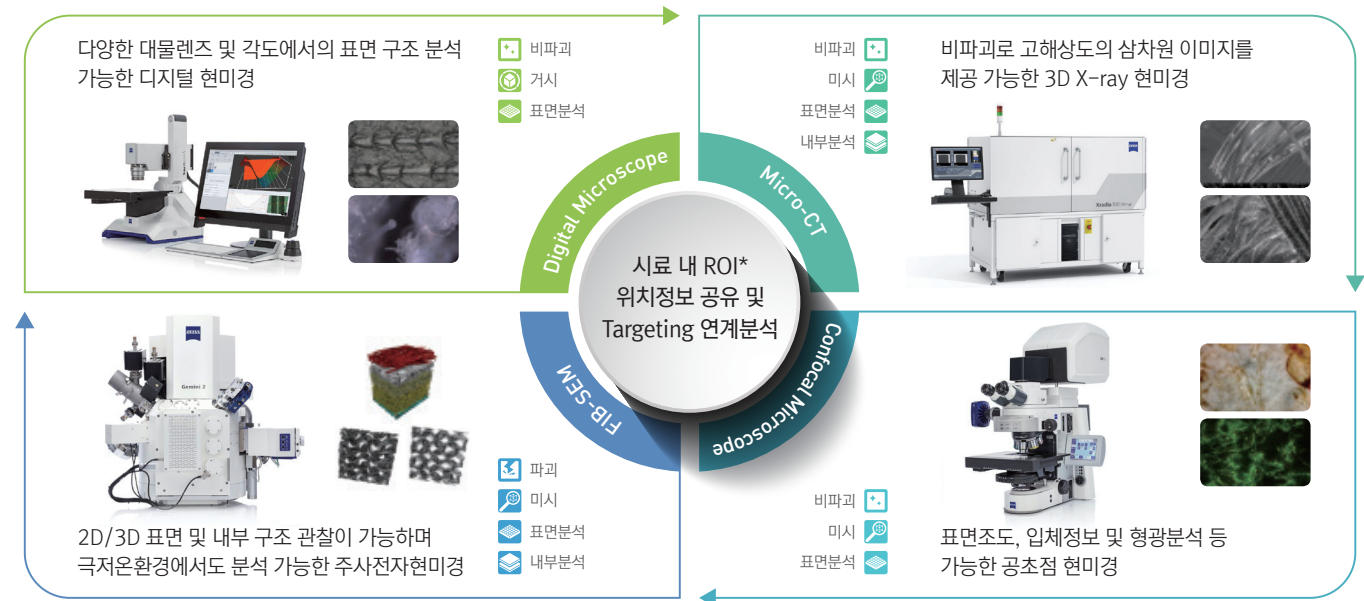▸ 섬유소재의 신뢰성 확보를 위해 구축된 시스템을 통한
  고장원인 분석 및 내구 수명으로부터 도출된 설계 가이드 제공

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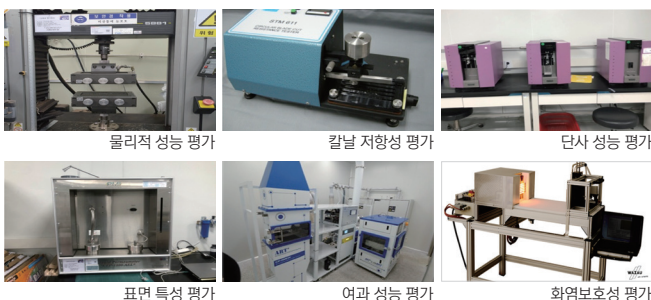
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2D/3D 표면 및 내부 구조 관찰이 가능하며
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Confocal Microscope

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표면조도, 입체정보 및 형광분석 등
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## ● '소재 – 부품 – 완제품' 연계 성능 평가 기술

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