



Organizers



Co-organizers

Artificial Intelligence on Fashion & Textile Alliance  
时尚与纺织人工智能联盟



**AIFT 2022 Programme Overview**  
**18/5/2022 (WED) Day 1**

Time	Content
10:00 - 10:30	<p><b>Opening Ceremony - Welcome Speech Academician. ( Donghua University )</b></p> <p>Prof. Bo Shen Conference chair (Donghua University)</p> <p>Prof. Calvin Wong AIFT Alliance chair Cheng Yik Hung Professor in Fashion, The Hong Kong Polytechnic University Chief Executive Officer, AiDLab</p>
10:30 - 11:00	<p>Keynote Speech 1: <b>Industrial Artificial Intelligence</b> Academician. Tianyou Chai Academician of Chinese Academy of Engineering, IEEE Fellow, IFAC Fellow</p>
11:00 - 11:30	<p>Keynote Speech 2: <b>fAshlon after fashion</b> Prof. Calvin Wong Cheng Yik Hung Professor in Fashion, The Hong Kong Polytechnic University Chief Executive Officer, AiDLab</p>
<b>Lunch</b>	
<b>Section 1 (Part I): Industrial Artificial Intelligence in Fashion and Textiles</b>	
13:30 - 13:50	<p>Online Clothes Recommendation and Style Compatibility Learning based on Jointly Semantic Feature Fusion</p> <p style="text-align: right;">AI345T</p>
13:50 - 14:10	<p>A camouflage suit pattern design based on the CycleGAN algorithm</p> <p style="text-align: right;">AI434T</p>
14:10 - 14:30	<p>Smart Clothing Color Matching with Reference to Popular Colors</p> <p style="text-align: right;">AI367T</p>
14:30 - 14:50	<p>Multi-dimensional Sentiment Computing Model for Clothing Reviews</p> <p style="text-align: right;">AI226T</p>
14:50 - 15:10	<p>Learning Fashion Compatibility with Matching Template and Self-Attention</p> <p style="text-align: right;">AI429T</p>
15:10 - 15:30	<p>Music-driven Motion Generation for Fashion show via MP Loss</p> <p style="text-align: right;">AI626T</p>
15:30 - 15:50	<p>Development of An Interactive Design System for Individualized Garment Pattern Generation of JK Uniform (Sailor Suit) Using Virtual Try-on Based Knowledge Extraction Method</p> <p style="text-align: right;">AI688T</p>
15:50 - 16:10	<p>StylishGAN: Towards Fashion Illustration Generating</p> <p style="text-align: right;">AI572T</p>

## 19/5/2022 (THU) Day 2

<b>Section 1 (Part II): Industrial Artificial Intelligence in Fashion and Textiles</b>		
10:10 - 10:30	Clothes Image Caption Generation with Attribute Detection and Visual Attention Model	AI486T
10:30 - 10:50	Convolutional Neural Network Based Method for Denim Density Measurement	AI534T
10:50 - 11:10	An Artificial Intelligence-based Approach to Temperature Regulation in Heating E-textiles	AI782T
11:10 - 11:30	Narrow Pooling Clothing Classification Based on Attention Mechanism	AI622T
11:30 - 11:50	HD Transformer: A Hierarchical Decoding Transformer for Clothing Parsing	AI865T
11:50 - 12:10	An improved spectral clustering clothing image segmentation algorithm	AI978T
<b>Lunch</b>		
<b>Section 2 (Part I): Intelligent Clothing Engineering and Human Body Modeling</b>		
13:30 - 13:50	An 3D thermoregulation model of the infant with finite element method : development and validation	AI996T
13:50 - 14:10	Evaluation of tactile comfort of underwear fabric	AI896T
14:10 - 14:30	Bra Emotional Design Based on Affective Model and Design Features	AI664T
14:30 - 14:50	Respiratory Monitoring Smart Vest Based on Flexible Pressure Sensor	AI847T
14:50 - 15:10	Research and development of intelligent clothing materials	AI256T
15:10 - 15:30	Evaluation of age-related differences in foot anthropometry among women	AI264T
15:30 - 15:50	Preparation Method and Wearing Performance of Smart Textiles	AI972T

## 25/5/2022 (WED) Day 3

<b>Section 2 (Part II): Intelligent Clothing Engineering and Human Body Modeling</b>		
10:30 - 10:50	On the Inheritance and Development of Guizhou Rongjiang Batik under the Background of Big Data	AI645T
10:50 - 11:10	Evaluation method for the thermal response of human skin in low level radiation exposure: a review	AI259T
11:10 - 11:30	Color-changing Fabric System with Temperature Control	AI474T
11:30 - 11:50	Using improved discrete grey modification model to forecast the impact of the COVID-19 pandemic on China's cotton export	AI873T
11:50 - 12:10	3D Numerical Investigation on Heat Transfer of Infant in the Indoor Environment	AI858T
<b>Lunch</b>		
13:30 - 13:50	Extraction of Feature Points for NURBS-based Modeling of Human Legs	AI339T
13:50 - 14:10	Computer-based estimation of the spine loading during SCBA carrying	AI963T
14:10 - 14:30	Individualized Garment Pattern Generation in Batches Based on Biarc Theory and Ezdxf	AI398T
14:30 - 14:50	The Design and Development of Garment Fabric Database Management System	AI369T
<b>Section 3 (Part I): Foundations of Artificial Intelligence Application</b>		
14:50 - 15:10	Few-Shot Object Detection Based on Adaptive Attention Mechanism and LM Softmax	AI625T
15:10 - 15:30	ATT-LSTM based Prosodic Boundary Classification using Vowel Duration Normalization for Both Chinese and English	AI737T
15:30 - 15:50	A novel CTR prediction model based on deep feature fusion network	AI297T
15:50 - 16:10	Predictive model of live shopping interest degree based on eye movement characteristics and DeepFM	AI243T

## 26/5/2022 (THU) Day 4

### Section 3 (Part II): Foundations of Artificial Intelligence Application

10:30 - 10:50	Click-through rate prediction network based on user behavior sequences and feature interactions	AI764T
10:50 - 11:10	Customer churn prediction model based on user behaviour sequences	AI957T
11:10 - 11:30	A Tourist Attractions Recommendation Model based on Sequence Interest Extraction and Location Information Fusion	AI842T
11:30 - 11:50	Time delay identification in dynamical systems based on interpretable machine learning	AI546T
11:50 - 12:10	Adaptive neural network control for Euler-Lagrangian systems with uncertainties	AI993T
<b>Lunch</b>		
13:30 - 13:50	Depth map enhancement based on comprehensive filtering	AI876T
13:50 - 14:10	Improved medical image segmentation model based on 3D-Unet	AI377T
14:10 - 14:30	Object Grasping Detection Based On Residual Convolutional Neural Network	AI268T
14:30 - 14:50	Semantics Assisted Multi-Task Learning for Image Aesthetic Evaluation	AI466T
14:50 - 15:10	Knowledge Base Question Answer based on BERT-BiGRU and Multi-task Learning	AI562T
15:10 - 15:30	MiniGAN: Towards informative and Uninformative Image Transferring	AI433T
15:30 - 15:50	A navigation method based on improved RRT* Smart and deep reinforcement learning	AI458T