

ITC On-going Research Projects (As at April 2005)

Project Title	Member Type	Principal Investigator	Commencement Date	Expected Completion Date
Area of Strategic Development				
Integrated Fashion and Textile Design Innovation	Principal Investigator	NEWTON Edward	Jan-02	Jun-04
Fashion Image Design with 3D Conceptualization	Principal Investigator	FAN Jintu	Jan-02	Jun-04
Ergo-Apparel for Work Environment	Principal Investigator	CHAN Chee Kooi	Jan-02	Jun-04
Interactive Textiles and Apparel	Principal Investigator	TAO Xiaoming	Jan-02	Jun-04
Study of Novel Shape Memory Polymers	Principal Investigator	HU Jinlian	Jan-02	Jun-04
Surface Application Technology of Conductive Polymer Based Materials	Principal Investigator	XIN John Haozhong	Jan-02	Jun-04
Study of Surface Modification of Textile Materials Using Nano-Technologies	Principal Investigator	YUEN Chun Wah Marcus	Jan-02	Jun-04
Integrated CAD and Sensory Engineering	Principal Investigator	LI Yi	Jan-02	Jun-04
Fabric Drape Characterization for Appare	Principal Investigator	HU Jinlian	Jan-02	Jun-04
Sensory Engineering of Clothing Appearance	Principal Investigator	FAN Jintu	Jan-02	Jun-04
Color Appearance and Visual Effect for Sensory Engineering	Principal Investigator	XIN John Haozhong	Jan-02	Jun-04
RGC Direct Allocation (Internal Competitive Research Grant)				
Investigation on Internet Shopping of Apparel	Principal Investigator Co-Investigator	ZHANG Zhiming NG Keng Po Roger	1-May-02	31-Jan-04
Modelling Short-cycled Replenishment Supply for International Textile and Clothing Supply Chains	Principal Investigator Co-Investigator Co-Investigator	LEUNG Yung Sun Sunney MOON Ka Leung WONG Wai Keung	30-Sep-03	31-Aug-05
Development of Colored Conductive Textile Sensors	Principal Investigator Co-Investigator Co-Investigator Co-Investigator	LEUNG Mei Yi Sarah TAO Xiaoming XIN John Haozhong YUEN Chun Wah Marcus	1-Jun-03	31-May-05
Industrial Clustering of Apparel in China : A Case Study	Principal Investigator Co-Investigator	ZHANG Zhiming TO Kin Man	30-Sep-03	31-Jul-05
Decision Model for Production Sites Selection for Hong Kong Clothing Suppliers after 2004	Principal Investigator Co-Investigator	AU Kin Fan WONG Wai Keung	2-Jul-03	30-Jun-05
The Dynamics of Organisation "Co-opetition" Innovation Process : A Perspective of Interdependency with Embedded Networks	Principal Investigator Co-Investigator	TO Kin Man CHANG Man Tsun Jimmy	15-Jun-03	14-Jun-05
Antimicrobial Finishing for Cotton and Cotton Blends Using Functional Core-Shell Nanoparticles	Rep Co-Principal Investigator	XIN John Haozhong	1-Sep-03	31-Aug-05
Development of an Intelligent Fashion Sales Forecasting System	Principal Investigator Co-Investigator Co-Investigator	AU Kin Fan KWAN Yuk So Roberta WONG Wai Keung	19-Jul-04	18-Jul-05
A Study of the Deployment of Smart Textiles Toward Innovative Fabrics Creation	Principal Investigator Co-Investigator Co-Investigator Co-Investigator	LIEW Kim Leong NG Man Ching Frankie SZETO Yu Cheung TAO Xiaoming	1-Jul-04	31-Dec-05
Design of an Intelligent Model for Textile Prints and Graphics Prediction	Principal Investigator Co-Investigator Co-Investigator	NG Man Ching Frankie NG Keng Po Roger YAN Man Chi Sunny	1-Sep-04	31-Aug-06
An Investigation of Design Theory of Hong Kong Fashion Designers	Principal Investigator Co-Investigator	AU Sau Chuen Joe TAYLOR Gail	1-Sep-04	30-Jun-05
Optimization Algorithms for Swimwear and Underwear Marker Planning	Principal Investigator Co-Investigator Co-Investigator	WONG Wai Keung AU Kin Fan LEUNG Yung Sun Sunney	1-Sep-04	31-Aug-05
Evaluation of Bagging Behavior on Shape Memory Fabrics	Principal Investigator Co-Investigator Co-Investigator	CHAN Lai Kuen CHUNG Siu Ping HU Jinlian	17-May-04	16-Sep-05
Product Authentication Protocol of Fashion Articles Using Radio Frequency Identification (RFID) Smart Technology	Rep Co-Principal Investigator Co-Principal Investigator	CHAN Chee Kooi HUI Chi Leung	1-Jun-04	31-May-05

Project Title	Member Type	Principal Investigator	Commencement Date	Expected Completion Date
The Development of a Business Reengineering Framework for the Adoption of Lean Production as a Strategy for Hong Kong Apparel Manufacturers to Manage the Supply Chains	Principal Investigator Co-Investigator	LEUNG Yung Sun Sunney CHAN Sek Foo	30-Sep-04	29-Sep-05
Study of the Role of Colour in Fashion Brand Positioning	Principal Investigator Co-Investigator Co-Investigator	CHAN Yuen Lan Priscilla TAYLOR Gail XIN John Haozhong	30-Sep-04	29-Sep-06
Fashion Store Location: A Study on the Preferences of the Fashion Shoppers by Using Conjoint Analysis	Principal Investigator Co-Investigator	MOON Ka Leung CHOI Ka Fai	1-Mar-04	28-Feb-06
RGC Competitive Earmarked Research Grant (CERG)				
Study of Permeability of Multilayer Woven Fabrics in Composite Fabrication Process	Principal Investigator	HU Jinlian	15-Dec-00	14-Nov-03
Polymeric Fibre Grating Sensors for Flexible Smart Textile Structures under Large and Complex Deformation	Principal Investigator	TAO Xiaoming	30-Dec-01	29-Dec-05
Prediction of Clothing Thermal Insulation and Moisture Vapour Resistance	Principal Investigator Co-Investigator	FAN Jintu NEWTON Edward William	1-Nov-01	30-Apr-05
Development of Smart Thermal Functional Garment for Infants	Principal Investigator Co-Investigator	KWOK Yi Lin LI Yi	1-Dec-01	31-May-05
Computational Human-clothing Models for Advanced Thermal Functional Engineering Design	Principal Investigator	LI Yi	31-Dec-01	30-Jun-05
Numerical Simulation of Drape of Garments with Seams	Principal Investigator	HU Jinlian	15-Dec-01	14-Dec-04
High Fidelity Colour Rendering and Specification of Textured Images	Principal Investigator	XIN John Haozhong	31-Dec-01	30-Dec-04
Study of Temperature-Sensitive Shape-Memory Polymers for Smart Textile Applications	Principal Investigator	HU Jinlian	1-Sep-02	31-Aug-05
Comfort and Mechanical Function of Compression Stockings	Principal Investigator Co-Investigator	KWOK Yi Lin LI Yi	16-Dec-02	15-Dec-06
Geo-mechanical Model of Garment Pattern Design Process	Principal Investigator Co-Investigator	NG Keng Po Roger YU Wing Man	1-Dec-02	30-Nov-05
Electrically Conducting Textile Sensors for Strain and Temperature under Repeated Large Deformation	Principal Investigator Co-Investigator Co-Investigator	TAO Xiaoming LEUNG Mei Yi Sarah YUEN Chun Wah Marcus	31-Dec-02	30-Dec-04
Development of Comprehensive Colour Consistency and Control System for Digital Textile Printing	Principal Investigator Co-Investigator	YUEN Chun Wah Marcus KU Shiu Kuen Anthony	30-Nov-02	29-Dec-04
Investigation into the Dynamic Heat and Moisture Transfer Through Clothing Systems using a Perspiring Fabric Manikin	Principal Investigator	FAN Jintu	1-Dec-03	30-Nov-06
Development of a Textile "Nest" for Premature Infants	Principal Investigator Co-Investigator Co-Investigator	KWOK Yi Lin LI Yi YICK Kit Lun	31-Dec-03	30-Dec-05
Intelligent Thermal Protective Clothing for Cold Environment	Principal Investigator Co-Investigator	LI Yi TOKURA Hiromi	31-Dec-03	30-Dec-05
Minimal Surface Model of Dynamic Ease Allowance in Garment Patterns	Principal Investigator Co-Investigator	NG Keng Po Roger YU Wing Man	1-Dec-03	30-Nov-05
Nano-structured Polymeric Photonic Fibers and Fabrics	Principal Investigator Co-Investigator	TAO Xiaoming XIN John Haozhong	1-Sep-03	31-Jul-07
Intelligent Real-time Optimisation System for Line-Balancing Control in Apparel Manufacture	Principal Investigator Co-Investigator Co-Investigator	WONG Wai Keung CHAN Sek Foo FAN Jintu	29-Dec-03	28-Dec-05
A Nano-structured Multi-functional Surface Treatment System for Fabrics	Principal Investigator	XIN John Haozhong	31-Dec-03	30-Dec-07
Effects of Foundation Garment Pressure on Women's Health	Principal Investigator Co-Investigator Co-Investigator	YU Wing Man LI Yi TOKURA Hiromi	1-Dec-03	28-Feb-07

Project Title	Member Type	Principal Investigator	Commencement Date	Expected Completion Date
Plant Structured Textile Materials	Principal Investigator Co-Investigator Co-Investigator	FAN Jintu SZETO Yu Cheung TAO Xiaoming	31-Dec-04	30-Dec-06
Development of an Eye-Patch Protector for Neonates	Principal Investigator Co-Investigator	KWOK Yi Lin	1-Jan-05	31-Dec-06
Maternity Garment Treatment for the Relief of Low Back Pain	Principal Investigator Co-Investigator	YU Wing Man LI Yi	31-Dec-04	30-May-07
Analysis of the Global Textile and Clothing Trade: An Empirical Approach	Principal Investigator	AU Kin Fan	31-Dec-04	30-Dec-06
Central Research Grant (General Projects)				
Perception of Clothing Appearance & Fit and Pattern Design Based on 3D Anthropometrical Measurements	Principal Investigator Co-Investigator	FAN Jintu YU Wing Man	1-Nov-02	31-Jan-05
Heat and Liquid Moisture Transfer Coupled with Mechanical Deformation of Textile Materials	Principal Investigator	LI Yi	2-Jan-03	1-Jan-05
Image-Based 3-Dimensional Garment Appearance Modelling with High Colour Rendering Accuracy	Principal Investigator	XIN John Haozhong	2-Jan-03	10-Mar-05
Anthropometric Modelling of Teenagers with Mentally Handicapped	Principal Investigator Co-Investigator	YICK Kit Lun CHU Wai Ching	1-Aug-03	31-Jul-05
Clothing Moisture Transport Behavior and Physiological Health	Principal Investigator Co-Investigator Co-Investigator	NEWTON Edward William KWOK Yi Lin LI Yi	1-May-04	30-Apr-06
Classification of Fabrics and Fashion Styles	Principal Investigator Co-Investigator	NG Man Ching Frankie HU Jinlian	1-Oct-03	21-Mar-05
Study of Shape Memory Nanofibers and Their Membranes	Principal Investigator	HU Jinlian	18-Jun-04	17-Jun-06
Publicity of Research Facilities in ITC	Principal Investigator Co-Investigator	YU Wing Man LI Yi	1-Apr-04	31-Jul-04
Develop a Prototype for Article Identification Using RFID	Principal Investigator Co-Investigator	CHAN Chee Kooi HUI Chi Leung	18-Feb-04	17-Jul-04
Effect of Nano Functional Treatment on the Protective Performance of Facemasks Against Respiratory Viruses	Principal Investigator	LI Yi	1-Mar-05	28-Feb-07
Measurement of CEPA for Earlier Trade Liberalization in China and Economic Impact of CEPA-induced Border Manufacturing Zone Investment Projects	Principal Investigator Co-Investigator	TO Kin Man ZHANG Zhiming	1-Nov-04	30-Apr-06
Study of Micro Structure and Thermal Mechanical Behaviour of Shape Memory Polymer-Fiber System	Principal Investigator	HU Jinlian	31-May-05	30-May-07
Optimization of the Stability and Sensitivity of the Flexible Textile Sensors under Strain Deformation and Cyclic Changing of Temperature and Humidity	Principal Investigator Co-Investigator Co-Investigator	LEUNG Mei Yi Sarah TAO Xiaoming YUEN Chun Wah Marcus	1-Jan-05	31-Dec-06
Intelligent Planning and Control for Fabric-cutting System	Principal Investigator Co-Investigator Co-Investigator Co-Investigator	WONG Wai Keung CHAN Sek Foo FAN Jintu LEUNG Yung Sun Sunney	1-Apr-05	31-Mar-07
Intelligent and Automated Inspection System for Knitted Garments	Principal Investigator Co-Investigator Co-Investigator	YUEN Chun Wah Marcus AU Kin Fan WONG Wai Keung	1-Jan-05	31-Dec-06
Sun Protection Properties of Fabric for Outerwear	Principal Investigator Co-Investigator Co-Investigator	LO Tin Yee AU Chi Kong CHAN Kwong	1-May-00	31-Oct-02
Biomechanical Sensory Functional Design of Socks	Rep Co-Principal Investigator Co-Investigator	LI Yi YEUNG Kwok Wing	5-Aug-02	4-Feb-05
Temperature Sensitive Shape Memory Polymers for Smart Textiles	Principal Investigator	HU Jinlian	2-Jul-02	31-May-05
Effect of Fiber Hygroscopicity, Hydrophobicity and Hydrophilicity on the Biological Health of Human Beings	Rep Co-Principal Investigator Co-Investigator Co-Investigator	LI Yi KWOK Yi Lin TOKURA Hiromi	1-Mar-03	21-Oct-05

Project Title	Member Type	Principal Investigator	Commencement Date	Expected Completion Date
Development of Seated Sweating Fabric Manikin and Investigation of Thermal Comfort of Clothed Persons Sitting in Various Thermal Environments	Principal Investigator	FAN Jintu	30-Sep-04	29-Sep-06
Personal Protective Clothing Systems against Respiratory Bacteria and Viruses Including SARS	Rep Co-Principal Investigator Co-Investigator Co-Investigator	LI Yi KWOK Yi Lin WONG Shook Yin Linda	1-Aug-04	31-Jul-06
Central Research Grant (Postdoctoral Fellowship)				
Experimental and Analytical Studies of Flexible Smart Textile Structures under Large and Complex Deformation	Principal Investigator	TAO Xiaoming	28-Oct-02	27-Jun-06
Fabrication and Optical Properties of Nanostructured Polymeric Photonic Fibers and Fabrics	Principal Investigator	TAO Xiaoming	30-Aug-04	29-Aug-06
Preparation of Multi-Functional Latex Particles for Textile Application	Principal Investigator	XIN John Haozhong	17-Feb-05	2-May-07
Central Research Grant (Postdoctoral Fellowship Matching Fund)				
Advanced Development of Design and Technology for Apparel	Principal Investigator Co-Investigator	NEWTON Edward William TAO Xiaoming	1-Jul-01	17-Mar-05
Industry & Utilities Projects				
Glorious Sun Scholarship	Principal Investigator	YEUNG Kwok Wing	1-Oct-95	30-Sep-05
Colour Preference Study	Principal Investigator	XIN John Haozhong	1-Aug-01	30-Nov-05
Non-HK Projects				
Develop Smart Thermal Management Blankets	Principal Investigator	LI Yi	13-Feb-01	12-Feb-06
RGC France/HK Joint Research Scheme				
Development of an Intelligent Fashion and Garment Design System Using Fuzzy-Neural System	Principal Investigator	NG Keng Po Roger	1-Jan-05	31-Dec-06
Innovation and Technology Support Programme Funded Research Projects				
Novel Ring Yarns and Production Technology	Principal Investigator	TAO Xiaoming	1-Nov-02	31-Jan-05
Development of Shape Memory Fabrics/Garment	Principal Investigator	HU Jinlian	1-Jun-03	31-May-05
Nanotechnology Centre for Functional and Intelligent Textiles and Apparel	Principal Investigator	TAO Xiaoming	1-Jun-03	31-May-06
Development of Smart Thermal Functional Apparel Technologies	Principal Investigator	LI Yi	1-Dec-03	30-Nov-06
Development of Innovative Apparel Products and Evaluation Technologies	Principal Investigator	FAN Jintu	1-Nov-03	30-Apr-06
Prediction Tool for Dimensions of Non-Thermoplastic Plain Knitted Fabric	Principal Investigator	LO Tin Yee	1-Sep-04	28-Feb-06
Teaching Company Scheme				
Development of an Innovative Production Management System in Spinning Mill	Principal Investigator	CHENG Kwok Po Stephen	28-Jun-01	27-Jun-05
Wrinkle-Resistant Finishing of Fabrics Using Nano-Technology	Principal Investigator	LI Yi	16-Aug-02	15-Aug-05
Characterisation of Nano-treated Materials Using Advanced Instrumental Techniques	Principal Investigator	YUEN Chun Wah Marcus	1-Dec-03	30-Nov-05
Intelligent Production Control Decision-Making System for Apparel Manufacturing Process	Principal Investigator	WONG Wai Keung Calvin	5-Jul-04	4-Mar-07