ENDORSED BY THE LEADING EXPERTS,

NATALIYA DOLENKO GENÈVE SA, Switzerland

Presents a fully tested, patented apparel engineering technology that redefines fit, production logic, and scalability – delivering luxury results at mass-market scale and cost – making it the only patented method capable of delivering **personalised garments without manual intervention or separate customisation processes.**

Built on Responsive Tailoring and Dynamic Fit Adjustment, the invention moves beyond self-adjustment as a standalone function – introducing full-garment adaptability with simultaneous reinforcement to deliver a Perfect Dynamic Fit using a Single Fibre. Garments self-adjust in real time to the wearer's movement, shape, and posture, while preserving the sharpness of traditional tailoring. Combining the flexibility of knitwear with bespoke structure and precision, the method delivers perfect fit at industrial scale via a single-layer, dynamic construction on fully-fashioned programmable machines.

The logic-driven programming transforms every stage of development and production into a controlled system – from initial design to final reuse. By replacing rigid sizing with intelligent structural logic, the system eliminates fit uncertainty and outdated sizing models. Three self-adjusting sizes replace eight conventional ones, enabling a market expansion coefficient of 2.67.

The result is a fully scalable, digitally controlled foundation for mass-personalised garments – produced without customisation or manual input. By removing inefficiencies at the source, the method cuts unsold inventory, returns, overproduction, and waste – establishing a new standard for predictive, circular manufacturing at scale.

Rooted in engineering, computer science, textile and apparel technology, the Method remains the only viable pathway for scalable, self-adjusting garments – including future hybrid systems of high-tech knit with 3D print. It is not just a Method, but a **new standard for engineered fit – laying the foundation for full lifecycle coordination and the emergence of Predictive Apparel Systems.**

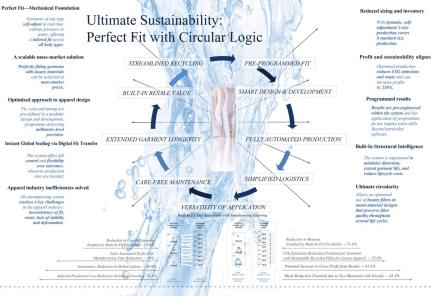
THE BEAUTY OF CERTAINTY VIEW TEXTILES FORECAST ISSUE 150 A/W 2026/27 https://www.view.itmsc.com/en/tread-shop/anab/sis%2C-renorts-%26top/clul/CC/more-16-serie-9 APPAREL DISRUPTION; UNLOCKING FUTURE EFFICIENCY

PRESS RELEASE

AN EXECUTIVE SUMMARY

KEY APPAREL INNOVATION 2026/27

SYSTEMS FOR SCALABLE PRECISION IN APPAREL



ENGINEERING & COMPUTER SCIENCE Infinite Scalability of The Perfect Fit **APPAREL & TEXTILE ENGINEERING**

NATALIYA DOLENKO

GENÈVE

A SOLUTION TO FOUR KEY MANUFACTURING ISSUES: Fit • Waste • Stability • Deformation

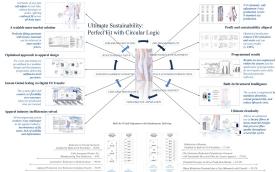
The patented Correlation Method sets a new industry standard by solving four critical challenges that have long hindered efficiency, profitability, and circularity in apparel manufacturing.

- **Perfect Dynamic Fit:** Self-adjusting garments eliminate sizing issues in mass production by dynamically responding to movement, shape, and posture. Each construction covers with perfect fit up to four adjacent sizes, replacing eight conventional ones with just three programmable designs, achieving mass-scale precision with minimal configuration.
- **Material Waste Minimisation**: Pre-programmed logic eliminates iterative prototyping by embedding predictability from the start. Combined with 3D programmable knitwear technology, this results in exceptionally low production waste. The reduced sizing model also cuts unsold inventory by up to 78.6%.
- Structural Reinforcement in Knitwear: The Method integrates reinforcement within the garment itself – overcoming knitwear's traditional limitations in form retention and enabling tailored-like precision without secondary components or finishing stages.

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Deformation Resistance and Longevity: By coordinating structural logic with the garment's mechanical behaviour, the product maintains fit and form throughout wear. This engineered resilience ensures reduced degradation, extending product life and supporting circularity at scale.

Mapping Scalable Precision in Apparel



APPAREL MANUFACTURING INNOVATION: ENGINEERING & COMPUTER SCIENCE/APPAREL & TEXTILE ENGINEERING/GARMENTS

FIT --- IMPACT

Infinite Scalability of The Perfect Fit

A Structural Transformation Through Programmable Fit, Longevity, and Circularity

UNLOCKING EFFICIENCY OF THE METHOD

IMPACT

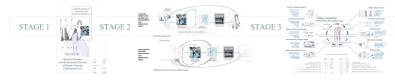


Achieved: A COMPLETE SYSTEM TRANSFORMATION

The Method redefines the system, making fit, lifecycle and circularity programmable from the outset. It transforms the way apparel is designed. produced and scaled: digitally, operationally and commercially. This innovation creates a new category of precision-controlled manufacturing, with technical and environmental benefits unmatched by existing methods. For the first time, two previously incomparable systems can be directly evaluated:

- Self-adjusting, perfectly tailored garments made with the patented Method
- High-end tailored garments made with traditional cut and sew

The Method enables mass-produced garments with luxurious fit, structural elegance and extended wear - without compromise. It replaces fragmentation with full system optimisation - maximising material use and minimising waste at every stage.



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10. Waste Reduction Enabled by

11. Electricity Use Reduction: - 66.7%

12. CO₂ Emissions Reduction per Garment with Sustainable Recycled

Expanded Customer Reach: - 85.3%

Fibre for Luxury Apparel: - 72.0%

Luxury Fibre Waste Reduction: 91.2%

Reduced Recycling Costs: - 77.8%

Potential CO₂ Emissions Avoided: -

15. Increase in Net Profit: +235%

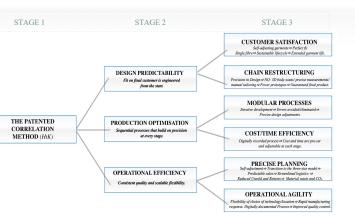
22.6M tonnes

- **Production Time Reduction:** 84.0%
- Production Cost Reduction: 73.7%
- 3. Skilled Workforce Reduction: - 99.9%
- **Space Efficiency: + 99%** 4

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- 5. **Unsold Rate Reduction Potential : - 78.6%**
- **Return Rate Reduction Potential:** 71.4%
- 7. Adjusted Production Cost Reduction Including Unsold: - 76.8%
- Waste Reduction Including Unsold **Garments:** - 82.4%
- Waste Reduction per Garment Sold: 84.9% 9.

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- Manufacturing Flexibility: Works on all programmable high-tech knitwear platforms (Seamless, 3D Knit, WholeGarment).
- Creative Control: High-tech precision supports couture-level of fit and production accuracy.
- Supply Chain Resilience: 1,368 times less reliance on highly skilled labour compared to tailored cut-and-sew, rigid supply networks, or local production.
- Customer-Centric Agility: Enables on-demand or scaled production with full consistency.
- Continuous Output: Machines can run 24/7 with digital program files.
- Traceable and Transparent: Digitally documented at every stage for control and accountability.
- Applications: Apparel, Medical Wearables, Sportswear, Industrial Use.

WORLD INTELLECTUAL PROPERTY ORGANISATION (WIPO) APPLICATION NUMBER PCT/EP2023/08012. PUBLICATION DATE: 10.05.2024 WO2024094577 – AN AUTOMATED METHOD FOR KNITTING A TAILORED THREE-DIMENSIONAL GARMENT. AND A KNIT GARMENT

This innovation marks a definitive advancement in apparel technology. It enables garments to dynamically adjust to different body shapes - delivering a level of fit and adaptability previously unattainable in mass production.

ABSTRACT "(EN) The present invention provides an automated process for producing knitted garments having a tailored look when worn by wearers with different body shapes. Through a combination of woven fibre tailoring techniques adapted to the field of knitted fabrics and an innovative approach to programming a three-dimensional seamless garment knitting machine to knit the garment in a new way, a knitted garment can be produced which adapts to different wearers having different body types, while following the wearer's anatomy and providing support where required, thus allowing the same garment to provide a tailored look to different wearers having different body shapes."

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A New Frontier: FOUNDATION FOR FULL-CHAIN PREDICTABILITY

The structured system, based on predictable results, enables the creation of Advanced Monitoring and Forecasting Programmes to provide complete transparency, cost control and real-time tracking from fibre selection to end-oflife recycling. These programmes should be designed to reinforce the industry-transforming impact of such systematisation.

SYSTEMATISATION:

Moving the industry: From \rightarrow Reactive & Fragmented To \rightarrow Predictive & Structured

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Advanced Predictive Programming

How the Correlation Method Changes the Equation

The patented Correlation Method transforms reactive production into predictive control. With fit structure and fibre usage pre-engineered and programmable, it eliminates overproduction and misallocation from the outset. This unlocks a data-driven future where every garment is designed for al demand and every stage - from manufacture to recycling - is optimised for measurable results

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CASE STUDY PREVIEW PREDICTIVE PROGRAMMING FOR HUMAN MORPHOLOGY AT SCALE

production

ong the system's most forward-looking applications is its ability to anticipate morphological liversity across global markets - a key barrier to both fit and inclusivity in traditional sizing models. With the Correlation Method already ensuring garments adapt across four sizes, the next step is refining

C7 - Human Diversity & Regional Morphology System

systems map the anatomical diversity across regions, ethnicities, and populations-ensuring garments engineer with the patented method adapt optimally to morphological differences across global markets. They guide fit calibration, pattern logic, and scaling across demographically distinct body structures.

C7.1 - Global Morphological Variance Mappe

	SUBCATEGORY	LI	1.2	L3	FUNCTION				
1.	Regional Body Structure Database	v			A finadational data set compiling anthropometric references by region, gender, and age				
2.	Ethno-Anatomical Fit Adaptation Tool		v	-	Transister key morphological distinctions into structural garment logic and pattern zone adjustments.				
3.	Population-Based Sizing Logic Simulator		v		Similates sizing needs across markets to optimize scalable design, reduce returns, and anal surgreshedim.				
4.	Anatomical Zone Mapping Engine	v		-	Dighally defines key cones distributing-pressured by body type.				
5.	Anthropometric Variation Integration System	v			Builde adaptable body tomplater for true inclusivity in patterning logic.				

C7.2 - Adaptive Scaling & Inclusion Tool

	SUBCATEGORY	п	1.2	IJ	FUNCTION
1.	Inclusive Pattern Scaling Model	v			Defines rules for pattern scaling that maintain self-adjusting integrity across a wide range of budy shapes.
2.	Global Morphotype Calibration Engine		v		Aligns morphological data with garmont engineering standards to calibrate panel behavior globally.
3.	Cross-Population Fit Harmoniser			v	A hormonisation engine that adjusts fit principles for intersectional inclusion (age, ability, ethnicity)
4,	Human Shape Variability Visualisation Suite		v		Enables interactive exploration of diverse body types and here garments self-adapt or scale across them. Supports education, similation, and exaul confermation of inchestrity and legie compatibility.
5.	Dynamic Torso Movement Interpreter		Ŧ		Analyses apper-body rotation and bonding patterns to stabilise adaptive zones and maintain garmont structure and balance during movement.
6,	Anatomical Fit Memory Recorder			v	Captures habitual postures and gestures over time to inform garment fit considency—kelping garment, adapt based on personal motion binney.

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wipo.int/search/en/detail.isf?docId=WO2024094577 Applicants: NATALIYA DOLENKO GENEVE SA [CH]/[CH] TEL: +41707057565 EMAIL · INFO@IPNATALIYADOLENKO COM Inventors: DOLENKO, Nataliya WEB: WWW. IPNATALIYADOLENKO.COM Technological Landscapes of: C/O FIDUCIAIRE DE LA CITÉ, Engineering & Computer Science (for programmable BD HELVÉTIQUE 36, 1207 GENEVA, SWITZERLAND Apparel and Textile Engineering (for garment construction **REGISTRATION NUMBER:** and mechanical movement, СН-660.2.065.019-0 Garments, including Outerwear

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FURTHER READ NATALIYA DOLENKO GENEVE SA PRESS RELEASE 10 ANNEXES



Geneva Switzerland 14 April 202