



### **Topic of the Speech:**

Body Posture Change of Pregnant Women and Development of Mannequin for Abdomen-supporting Maternity Garments Design

### **Professor Rong Zheng**

Donghua University  
China



**Professor Rong Zheng** obtained Ph.D in ergonomics design at the Hongkong Polytechnic University. A new Chinese bra sizing system (Zheng et al., 2007) developed based on her PhD study was recognized by Time Magazine – Viewpoint in the list of “Best Inventions of 2007”. She is currently Professor in the Shanghai International Fashion Innovation Center at Donghua University since the beginning of 2018. Prior to that she was the former director of the BIFT-Aimer Human Engineering Research Center from 1999 to 2017, and has formerly served as dean and associate dean of School of Fashion Art & Engineering at Beijing Institute of Fashion Technology (BIFT) from 2007 to 2015. She is a Commissioner of the China Fashion Association and Chinese Technical Committee of Standardization of Ergonomics, an expert member of China National Garment Association, and an international specialist in ISO/TC133 Clothing sizing systems - size designation, size measurement methods and digital fittings.

Her research is in the field of human-centered inclusive design using cutting edge technologies, with the focus in the area of anthropometric survey & biomechanical study, sizing systems and creative mannequins for targeted markets, mobility of compression & protective clothing, design of innovative ergonomic /inclusive apparel products, and structures of native and minority costume.

She has published more than 80 journal papers and conference papers, and supervised more than 40 Ph.D and Master students. As a principal investigator, she developed inner-shuttle ergonomics shoes for astronaut in the weightless environment of aircraft and space station for Shenzhou 7, 9, and 11 tasks in collaboration with China Astronaut Research and Training Center, designed the uniform for the China International Search and Rescue (CISAR) team in 2009, and won "reddot award 2018 winner" in German.