Figure 1: Customized garment design for scoliosis patients using CAD tools (interactions between 3D virtual garment fitting and 2D garment patterns generation)
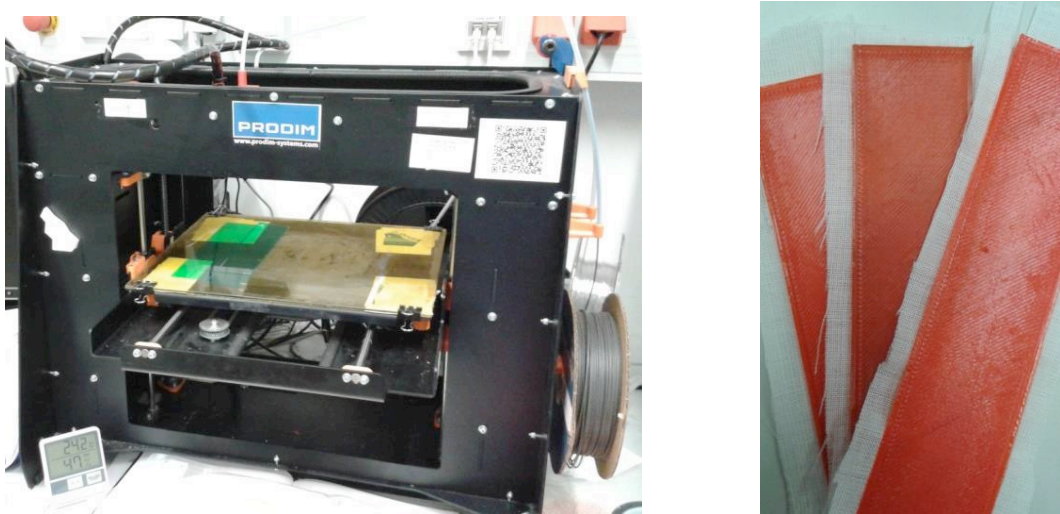

Figure 2: A FDM 3D printer and a textile fabric with 3D printed geometric structure (from reference [16])

Figure 3: Classical corset for correcting body deformation (hard material, uncomfortable, bad appearance)

Figure 4: Required innovative corset (soft, natural appearance, comfortable, easy to wear) (from the reference [4])
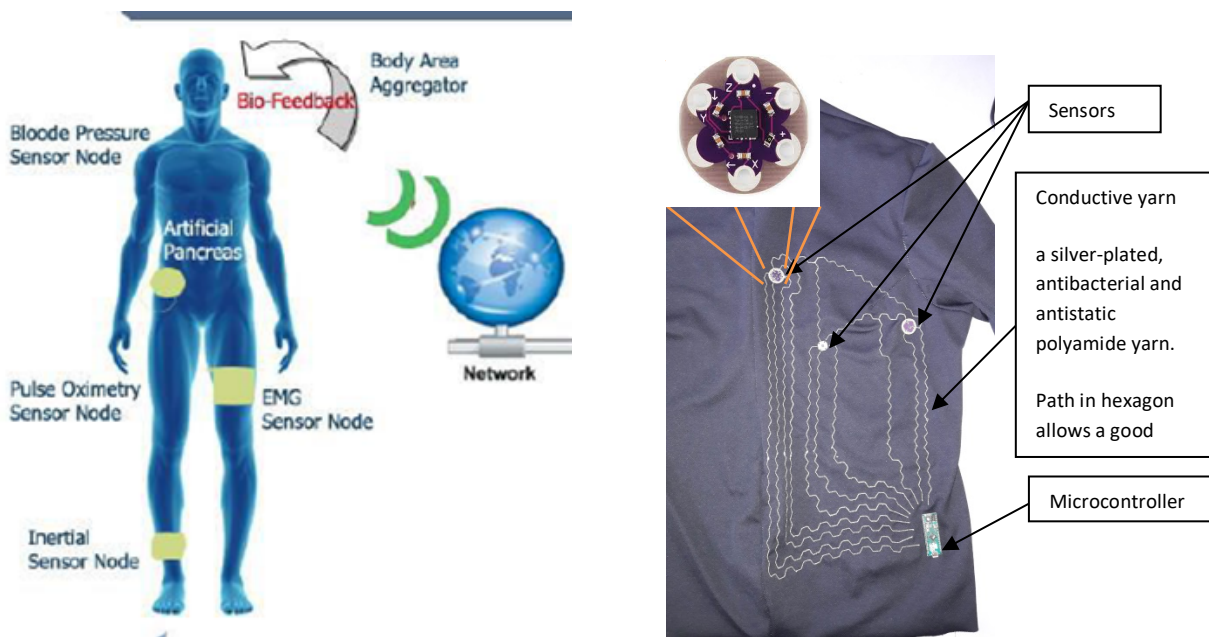

Figure 5: General principle of an intelligent and connected garment for online human health monitoring and one prototype
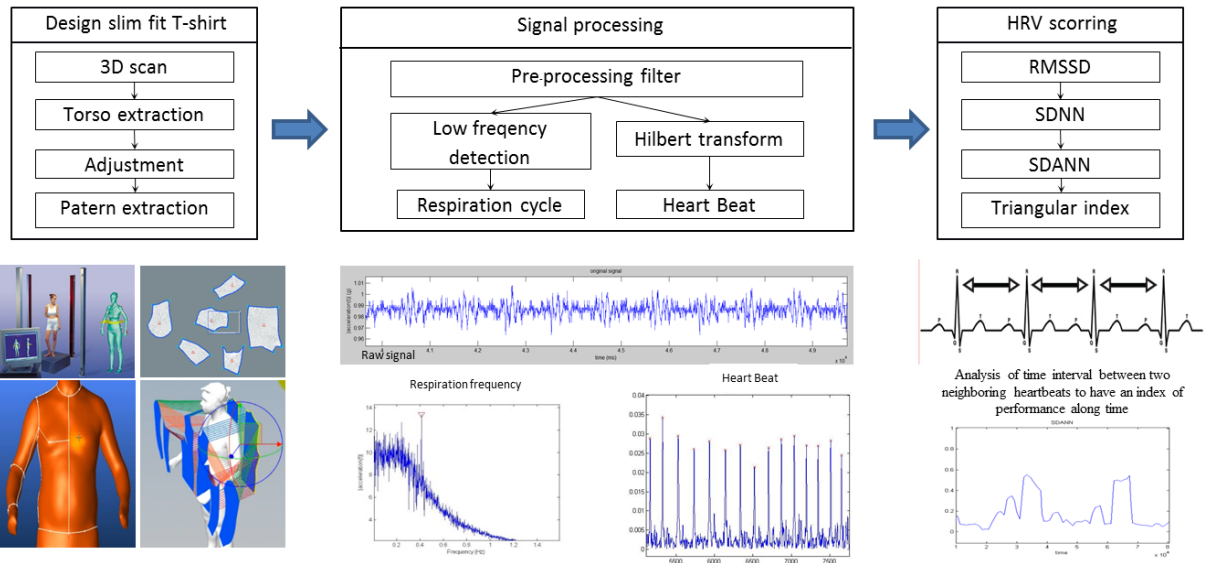
Figure 6: Design process of a customized intelligent garment (customized garment design, integration of devices, signal preprocessing and decision support unit development)
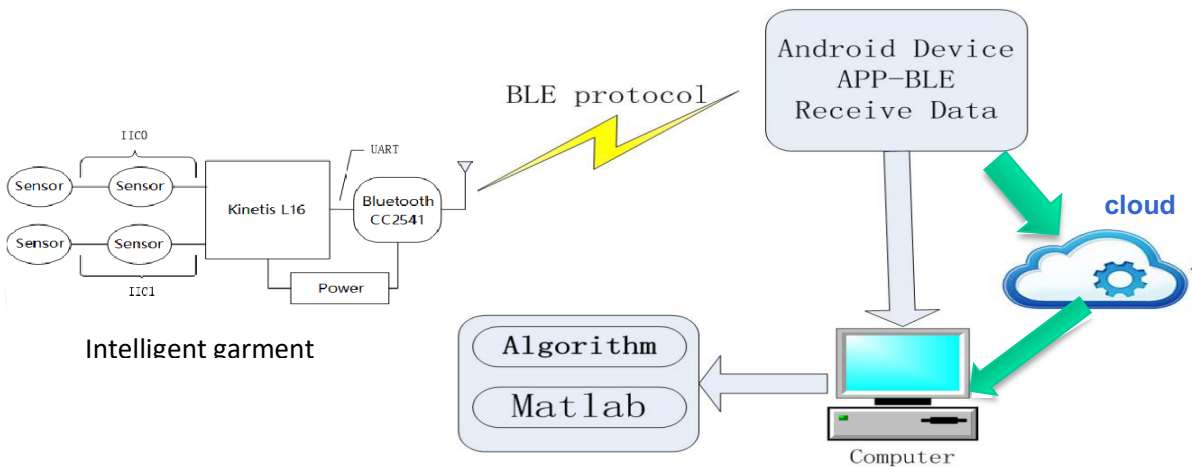

Figure 7: Architecture of communication between the proposed intelligent garment, smartphone and cloud platform
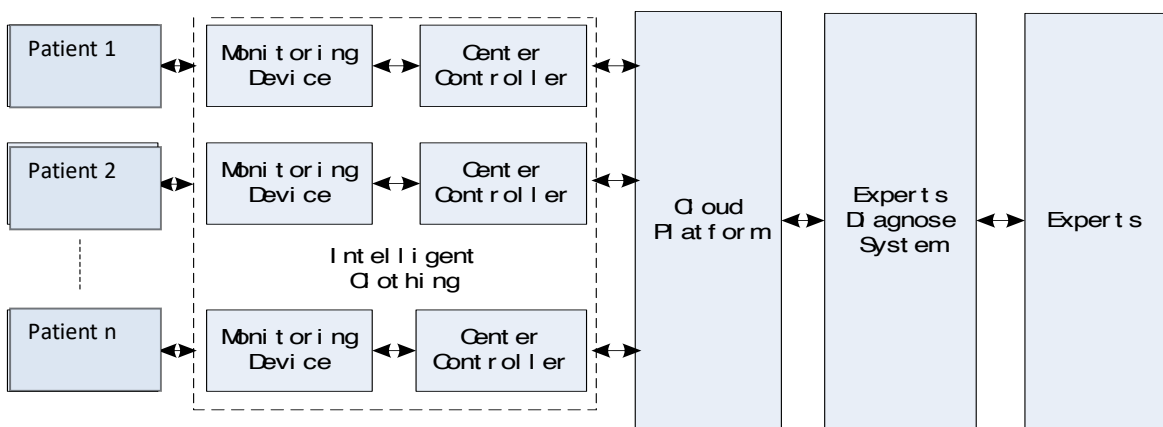

Figure 8: General structure of the proposed intelligent garment connected to a cloud platform