The technology on our body, in our body and all around us enhances our health and well-being from conception to death. This environment is emerging now with intelligent caring machines, cyborgs, wireless embedded continuous computing, healthwear, sensors, healthons, nanomedicine, adaptive process control, mathematical modeling, and common sense systems. The human body and the world in which it functions is a continuously changing complex adaptive system. We are able to collect more and more data about it but the real challenge is to infer local dynamics from that data. Intelligent Caring Biomechatronic Creatures and Healthmaticians (mathematicians serving human health) have a better chance of inferring the dynamics that need to be understood than human physicians. Humans can only process three dimensions comfortably while computers can see infinite number of dimensions. We will need to trust the distributed network of healthons, Intelligent Caring Creatures, and NURSES (New Unified Resource System Engineers) to create Health Extelligence. We need new vocabulary to push forward in a new way. For instance; healthons are tools combining prevention with diagnosis and treatment based on continuous monitoring and analyzing of our vital signs and biochemistry. The “Healthon Era” is just beginning. We are closer and closer to the world with healthons on your body, in your body and all around you; where not a doctor but your primary care healthmatician warns you about an approaching headache; and where NURSE programs your intelligent caring creatures so they can talk to your cells and stop disease in its tracks.
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