Extreme Body Scanning - The Future of Very Accurate Body Reference Models - An Update on the Collaboration Between 3dMD and the Max Planck Institute for Intelligent Systems

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Abstract

Born at the first conference in Lugano, 3dMD and MPI-IS (Prof Michael Black) have established a very close collaboration to push the boundaries of highly accurate positional body scanning. At the 3rd Conference, Chris Lane and Michael Black premiered the research into developing very accurate articulated body avatars using complex protocols for capturing over 100 body postures and how this is being used to create an increasing library of virtual mannequins across broad age and posture variations. This session will provide both an update on this project and the new scanning system which scans full body activity at 60Hz with sub-millimeter accuracy and markerless surface tracking. The research will enable reference models to be built which analyze skin and fabric flow in response to a wide range of physical activity..

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