

## **Sudhanshu Kumar Semwal**

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### **AREAS OF INTEREST**

Interactive Computer Graphics, Human Animation, Motion Capture and mapping, Complex Systems, Wearable Computing and Virtual Reality, Computer-Human Interaction, Medical Applications, Human Animation and Avatars, Volume Rendering and Visualization, Realistic Images, Ray Tracing, Computational Geometry.

*Bio-Summary:* Sudhanshu Kumar Semwal joined the University of Colorado at Colorado Springs (UCCS) in 1987. He has published more than sixty refereed technical papers in the areas of graphics, VR, Wearable Computing, visualization, and human animation. He is now a tenured professor in the Department of Computer Science and served as Department Chair (2002). He started the MS Computer Science program in Media Convergence, Games and Media Integration (The GMI) Program, the GMI Lab and co-founded CoView Data Labs™ with UALR. A visiting summer researcher at the Advanced Telecommunication Research (ATR), Kyoto in 97-99, 2002-03, and Central Research Laboratory (CRL), Matsushita (Panasonic) Osaka (1991-92); also worked as a scientist at the Sandia National Laboratory, Albuquerque, NM, during 1995. His work has been presented in conferences at US, Singapore, Japan, Belgium, Czech Republic, Mexico, and Canada. Dr. Semwal co-organized the Crossover applications Conference: Technology for the Visually Impaired and the Blind in at UCCS in 2010-11. Dr. Semwal is interested in biomechanical simulation of human form, camera-based virtual environments, aroma and haptic based virtual environments, interactive surgery, and novel applications based on iPhone and Android based applications, and heterogeneous projection system. He has also worked with the Dome at Denver Museum of Natural History.