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Remis Balaniuk

Postdoctoral Fellow and Research Associate at Stanford University – USA between 2000 and 2002, Postdoctoral Fellow at INRIA - Institut National pour la Recherche en Informatique et Automatique – France in 1999, received his Ph.D. in Computer Science from the INPG - Institut National Polytechnique de Grenoble – France in 1996, received his MS in Computer Science from the UFRGS – Universidade Federal do Rio Grande do Sul in 1989 and his BS also in Computer Science from the UnB – Universidade de Brasília in 1986.

At the present time he is a Professor and a Researcher at the UCB - Universidade Católica de Brasília and a Business Intelligence and Data Mining expert at the TCU - Tribunal de Contas da União. Peer reviewer for the International Journal of Medical Robotics and Computer Assisted Surgery and the IEEE Transactions on Robotics and Automation.

His main interests are in Virtual Reality, particularly in the real-time dynamic simulation of soft tissues and the haptic interfaces. He has developed methods for the physically based simulation of soft tissues and protocols for the stable and accurate haptic rendering in low frequency simulations.

He is particularly interested in medical applications of virtual reality and is currently working on surgery simulation.