HANS VAN OOSTROM, PH.D.

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Primary Faculty
Topics: Human physiologic simulation to enhance non-invasive patient monitoring and education
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Education:
M.S., Electrical Engineering, Eindhoven University of Technology, 1988
Ph.D., Electrical Engineering, Eindhoven University of Technology, 1993
Postdoctoral Fellow, Anesthesiology, University of Florida, 1994-1998

Research Summary:

Dr. van Oostrom's research is focused on the mathematical modeling of human physiology for the purpose of medical education and improving physiological measurements both invasive and non-invasive.

Selected Publications:

Google Scholar Citation Link

Lansdorp B, van Putten M, de Keijzer A, Pickkers P, van Oostrom JH. A Mathematical Model for the Prediction of Fluid Responsiveness. Cardiovascular Engineering and Technology. 4(1). 53-62. 2013.

Peterson M, Schwab W, McCutcheon K, van Oostrom JH, Gravenstein N, Caruso L: Effects of elevating the head of bed on interface pressure in volunteers. Implications for pressure ulcer formation. Crit Care Med 36: 3038-3042, 2008.

Krueger C, van Oostrom JH, Shuster J. A longitudinal description of heart rate variability in 28-34-week-ol preterm infants. Biol Res Nurs. 11(3):261-8. Jan 2010

van Oostrom JH, Kentgens S, Beneken JEW, Gravenstein JS: An integrated coronary circulation teaching model. J Clin Monit Comput 20:235-242, 2006.

Meka VV, van Oostrom JH: A bellows-less lung system for the Human Patient Simulator. Med Biol Comput Eng 42:413-418, 2004.

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