Selected Medical Modeling and Simulation Scholarly Activities

The National Center for Collaboration
in Medical Modeling and Simulation

Eastern Virginia Medical School

and

Old Dominion University
Virginia Modeling, Analysis and Simulation Center

Through December 31, 2012
Patents Pending


Licensing Agreements

- Eastern Virginia Medical School and Old Dominion University’s Virginia Modeling, Analysis and Simulation Center completed a Licensing Agreement with Cardionics, Inc., located in Webster, Texas, for a Virtual Pathology Stethoscope developed by the EVMS/ODU team to aid in training medical personnel to properly diagnose pathology in otherwise healthy standardized (simulated) patients during the medical education process.
SELECTED PUBLICATIONS

Books and Edited Books


Journal Articles


Book Chapters


Proceedings Articles


**BOOK REVIEWS, ABSTRACTS, AND OTHER PUBLICATIONS**


**UNPUBLISHED MANUSCRIPTS**


Mendoza, K. (2003). Current and proposed simulation training for medical students, surgical assistant students, physician assistant students, general surgery residents, pediatric residents, Ob-Gyn residents, vascular surgery fellows, urology residents, head and neck surgery residents and emergency medicine residents.


CONFERENCES AND SYMPOSIA

Drake, R.R. (2008, March) Dr. Drake served as a panel moderator for the panel session “New Pathogen Discovery” at the International Conference on Emerging Infectious Diseases, Atlanta, GA, in March 2008.


Combs, C.D. (2007, Sept.) Dr. Combs served as the Chair of the Medical Track of the MODSIM World 2007 Conference and Exposition, September 11-13, 2007, Virginia Beach, VA. In addition, Dr. Combs served as a panel moderator for five panels at the conference.

Scerbo, M.W. (2007, Sept.) Dr. Scerbo served as Co-Chair of the Medical Track of the MODSIM World 2007 Conference and Exposition, September 11-13, 2007, Virginia Beach, VA. In addition, Dr. Scerbo served as a panel moderator for two panels at the conference.

Semmes, O.J., (2007). Dr. Semmes was an invited participant in the National Cancer Institute Animal Models in Research meeting in Bethesda, MD.


SELECTED PROFESSIONAL PRESENTATIONS, DEMONSTRATIONS and INTERVIEWS


Combs, C.D. (2011, October). Educating health professionals in the early 21st century-the basic driving forces and the role of medical simulation. Presented at the 2011 4th International Conference on Biomedical Engineering and Informatics, Shanghai, China.


Combs, C.D. (2010, October). Thoughts on medical modeling and simulation and health professions education. Presented as part of the TEDx Salon Event at the MODSIM World Conference and Exposition, Hampton, VA.


Combs, C.D., and Sokolowski, J.A. (2010, June). Medical modeling and simulation at Eastern Virginia Medical School and Old Dominion University. Presented to the eastern Virginia Congressional delegation, Washington, DC.


Combs, C.D. & Combs, W.C. (2008, Aug. 28). The paper “An analysis of trends in the medical modeling and simulation research literature” was presented at the 20th International Conference of the Society for Medical Innovation and Technology (SMIT) in Vienna, Austria.


Cuper, T.T. (September 13, 2007). Registration of 3D CT model of the pectus excavatum chest to subject: methodologies utilizing 3D laser surface scanning. Presented at the MODSIM World 2007 Conference and Exposition, Virginia Beach, VA.

Baydogan, E. (September 12, 2007). Decoupled agent architecture for virtual operating room training simulations. Presented at the MODSIM World 2007 Conference and Exposition, Virginia Beach, VA.

Nalu, A.T. (September 12, 2007). Individual personality characteristics for virtual agents in a virtual operating room. Presented at the MODSIM World 2007 Conference and Exposition, Virginia Beach, VA.

Scerbo, M.W. (September 12, 2007). Medical errors and the need for simulation. Presented at the MODSIM World 2007 Conference and Exposition, Virginia Beach, VA.


Anderson, B.L. (September 11, 2007). Stress and workload associated with monitoring simulated maternal-fetal heart rate signals. A poster presentation at the MODSIM World 2007 Conference and Exposition, Virginia Beach, VA.


Mazumdar, S. (September 11, 2007). OntoVOR: the design of a knowledge-base for a virtual operating room. A poster presentation at the MODSIM World 2007 Conference and Exposition, Virginia Beach, VA.

Yan, Z. (September 11, 2007). An approach to identifying the biomechanical differences between intercostal cartilage in subjects with pectus excavatum and normals in vivo: reconstruction and CT registration. A poster presentation at the MODSIM World 2007 Conference and Exposition, Virginia Beach, VA.


Gliva-McConvey, G.A. (June 19, 2007). How to give your standardized patient’s (SP’s) new diseases-add abnormal physical findings and visual presentations. Presented at the annual conference of the Association of Standardized Patient Educators (ASPE), Toronto, Ontario, Canada.

Alpino, R.J. (June 1, 2007). Presentation on VIMSIM Medical Projects Underway and Under Development to the Virginia Economic Development Partnership marketing staff, Richmond, VA.


the Federation of Behavioral, Psychological, and Cognitive Sciences and the Human Factors & Ergonomics Society. Washington, DC.


Stefanidis, D., Scerbo, M.W., Korndorffer, Jr., J.R., & Scott, D.J. (Mar., 2006). Redefining simulator proficiency using automaticity theory. Association for Surgical Education. Tucson, AZ.


Combs, C.D. and Scerbo, M.W. (Nov., 2005) Hosted an international media delegation in Norfolk on November 8, 2005 as part of the Virginia Modeling and Simulation Media Tour organized by the Virginia Economic Development Partnership to discuss medical modeling and simulation and to demonstrate ongoing EVMS/ODU projects in this field. Norfolk, VA.


INVITED PRESENTATIONS


Combs, C.D. (2012, September). The future of modeling and simulation: Things we should be thinking about. Keynote speech for 2012 MODSIM World Conference, Suffolk, VA.


INVITED PANEL PARTICIPATION


**TECHNICAL PANEL PARTICIPATION**


**SELECTED GRANTS AND AWARDS**


Parodi, A. (Principal Investigator), Diallo, S., Scerbo, M.W., & Papelis, Y.). LIVES and SIM Lab (Laboratory of Investigation, Validation and Verification of Emerging Simulators). Eastern Virginia Medical School, 2012-present, $50,000.


Combs, C.D. (Project Director). National Center for Collaboration in Medical Modeling and Simulation


**DISSERTATIONS**


**PUBLIC SERVICE**