



JUXTOPIA® MIXED REALITY PUBLICATIONS FOR IMPROVING HUMAN PERFORMANCE®

Brain Computer Interfaces (BCI), Intelligent Amplification, and Cybernetics

Boykin, A., Doswell, J., (2019), "A Position for Proactive Cybersecurity Policies for Military BCIs". The 11th International Conference on Advanced Cognitive Technologies and Applications (COGNITIVE '19). Venice, Italy.

Doswell, J., Wilson, K. (2019), "Wearable Augmented Cognition for Improving Medic Performance: An Adaptive Transcranial Cognitive Augmentation Device with Wearable Augmented Reality. The 11th International Conference on Advanced Cognitive Technologies and Applications (COGNITIVE '19). Venice, Italy.

Ortiz, V., Doswell, J., (2019), "Algorithm for Classification of EEG Signals in Astronauts". The 11th International Conference on Advanced Cognitive Technologies and Applications (COGNITIVE '19). Venice, Italy.

Biomedical and Health Information Technology, and Telemedicine

Treating Drug Dependency". *Wearable Computing*. [IEEE Pervasive Computing](#), pp. 71-73.

Doswell, Jayfus (2002), "Preparing the Public for Possible Bioterrorist attacks: Using '3D visualization health informatics' as a tool for Training and Education, The National Medical Association Annual Conference. Wakiki, Hawaii.

Doswell, J., Sampson, O., Jeffrey, M. (2010) "WASA MIST Wearable Assistant for Real-Time Emergency Care Providers". The 15th Annual International Meeting of the American Telemedicine Association.

Doswell, J., (2010) "Wearable Telehealth for Trauma Care Delivery in Disadvantaged Populations". 138th Annual Meeting & Exposition of the American Public Health Association., Denver, CO

Doswell, J., (2010) "Context-Aware Augmented Reality System for Medical First Responders". Proc. In the XII Symposium on Virtual and Augmented Reality, Rio Grande do Norte, Brazil. ***Paper Accepted. Did not Present.***

Wilson, K., Doswell, J., (2010), "Using Wearable Augmented Reality as a Clinical-Decision Support Tool". mHealth Summit. Session on Emergency Response & Mobile Technology. Washington, DC.

Adeboye, Ologhobo, O., Ochieng, E., Gillis, D., Doswell, J., Sofolahan, A., Dickens, C., (2010). "Context-Aware Augmented Reality System: A Medical First Responder Situational Awareness Interface.". Poster Session. Medicine Meets Virtual Reality (MMVR) Conference. Newport Beach, California.

Wilson, K., Debeatham, W., Danner, O, Matthews, L., Doswell, J., (2010). "How A Human Cadaver Model and Augmented Reality Combined Can Educate Novices in the Performance of Medical Tasks with Minimal Psychomotor Familiarization". The Juxtopia Urban Learning Technology (JULT) 2010 Conference. Baltimore, Maryland.



Sofolahan, A., Ologhobo, O., Flucas, R., Hall, B., Smith, H., Mallory, O., Griffin, C., Beasley, J., Dickens, C. "A Wearable Augmented Reality Product for Improving Emergency Medical First Response and Training". The Juxtopia Urban Learning Technology (JULT) 2010 Conference. Baltimore, Maryland.

Balaji, K., Kazanzides, P., Doswell, J. "Intelligent Navigation System for Surgery (WINSS)". The Juxtopia Urban Learning Technology (JULT) 2010 Conference. Baltimore, Maryland.

Anderson, M., Doswell, J (2010), "Wearable Augmented Reality Nursing Trainer (WANT)". The Juxtopia Urban Learning Technology (JULT) 2010 Conference. Baltimore, Maryland.

Ologhobo, O., Hall, B., Flucas, R., Sofolahan, A., Smith, H., Doswell, J. (2010) "Developing a Wearable Operating System". The Juxtopia Urban Learning Technology (JULT) 2010 Conference. Baltimore, Maryland.

Doswell, J., Anderson, M., Wilson, K., Kazanzides, P., et. al., (2012), "Wearable Augmented Reality for Medical First Response & Situational Awareness". Medicine Meets Virtual Reality (MMVR19) NextGen Conference. Newport Beach, California.

Azimi, E., Doswell, J., Kazanzides, P., (2012), "Augmented Reality Goggles with an Integrated Tracking System for Navigation in Neurosurgery". IEEE Virtual Reality Conference. Orange County, California.

Doswell, J., et. al., (2012), "Using Wearable Augmented Reality to Augment Skills for Public Health Providers", 140th Annual Meeting & Exposition. American Public Health Association, San Francisco, CA.

Sadda, P., Azimi, E., Jallo, G., Kazanzides, P., (2013), "Surgical Navigation with a Head-Mounted Tracking System and Display". Medicine Meets Virtual Reality (MMVR20) NextGen Conference. San Diego, California.

Doswell, J. (2013), "Wearable Augmented Reality for Emergency Public Health and First Responders, 141st Annual Meeting & Exposition. American Public Health Association, Boston, Massachusetts.

Wilson, K., Doswell, J, Fashola, O., Debetham, W., Darko, N., Walker, T., Danner, O., Matthews, L., Weaver, W., (2013), "Using Augmented Reality as a Clinical Support Tool to Assist Combat Medics in the Treatment of Tension Pneumothoraces". Mil Med 2013;178:981-985. [online] <http://www.ncbi.nlm.nih.gov/pubmed/24005547>.

Doswell, J. (2014). Building the Juxtopia® Imhotep Open-Wear Platform for Affordable Wearable Telehealth. American Public Health Association 142 Annual Meeting and Exposition. [Online] <https://apha.confex.com/apha/142am/webprogram/Paper315874.html>

Doswell, J., Kazanzides, P., (2015). "Wearable Augmented Reality for Remote Clinical Training and Decision Support." 20th Annual American Telemedicine Association (ATA) Conference. Los Angeles, CA.



Synthetic Learning Environments

Blake, M.B. and Doswell, J. (2006) "Context-Aware Augmented Reality System (CAARS)". SALT New Learning Technologies Conference. Orlando, FL.

Blake, M.B., Green, J., Doswell, J. (2006). An Agent-Supported Multimodal Scaffolding Infrastructure. 6th IEEE International Conference on Advanced Learning Technologies. Theme: *Advanced Technologies for Life-Long Learning*. Kerkrade, The Netherlands.

Doswell, J., Blake, M.B., Green, J., Mallory, O., Griffin, C. (2006) "Augmented Reality Learning Games: 3D Virtual Instructors in Augmented Reality Environments". ACM SIGGRAPH Symposium on Interactive 3D Graphics and Games. Electronic Arts Redwood City campus.

Doswell, J. (2006) "Virtual Instructors In Mixed Reality Environments". Edutainment Conference: Storytelling, Games and Edutainment Tutorial. Zhejiang University, Hangzhou, China.

Doswell, J. (2006) "Augmented Learning: Context-Aware Mobile Augmented Reality Architecture for Learning. *Workshop: Mobile Technology and Content Delivery in Education*. 6th IEEE International Conference on Advanced Learning Technologies. Theme: *Advanced Technologies for Life-Long Learning*. Kerkrade, The Netherlands.

Doswell, J. (2006) "Instruction Through The Ages: Building Pervasive Virtual Instructor for Life Long Learning. (*Session Chair*). *Panel: Building Virtual Instructors*. 6th IEEE International Conference on Advanced Learning Technologies. Theme: *Advanced Technologies for Life-Long Learning*. Kerkrade, The Netherlands.

Doswell, J., (2006), "Context-Aware Mobile Augmented Reality Architecture for Lifelong Learning". 6th IEEE International Conference on Advanced Learning Technologies. Theme: *Advanced Technologies for Life-Long Learning*. Kerkrade, The Netherlands.

Doswell J., Blake, M.B., Green, J. (2006). "Mobile Augmented Reality System Architecture for Ubiquitous e-Learning". 4th IEEE International Workshop on Wireless, Mobile and Ubiquitous Technologies in Education. Athens, Greece.

Ologhobo, O., Ochieng, E., Gillis, D., Sofolahan, S., Doswell, J., (2010) "Wearable Augmented Reality for Maintenance Assistance. National Technical Association (NTA) 2010 Conference. Baltimore, Maryland.

Sharma, S., Ashkar, J., "Voice Field Medical Card for a Battlefield Environment", Juxtopia Urban Learning Technology (JULT) 2010 conference, December 8th, Morgan State University, Baltimore, Maryland, USA, 2010. – {Research Co-Sponsored by Juxtopia}

Sharma, S., Doswell, J., (2012) "Pattern matching and information extraction in a software system for a battlefield environment", *Journal of Computational Methods in Science and Engineering*, Volume 12, No.3, Supplement 1, page S113-S118, ISSN: 1472-7978.

Doswell, J., Skinner, A., (2014) "Augmenting Human Cognition with Adaptive Augmented Reality". 16th International Conference on Human-Computer Interaction. Creta Maris, Heraklion, Crete, Greece.

Doswell, J., Skinner, A., (2014). "Augmenting Human Cognition with Adaptive Augmented Reality". *Foundations of Augmented Cognition. Advancing Human Performance and Decision-Making*



through Adaptive Systems. Lecture Notes in Computer Science. Springer. Volume 8534, 2014, pp 104-113. http://link.springer.com/chapter/10.1007%2F978-3-319-07527-3_10#page-1

Doswell, J., (2015). "Improving Astronaut Performance of ISS National Lab Research Tasks Using the Juxtopia® Context-Aware Mobile Mixed Reality Assistive Device (CAMMRAD)" (paper) 4th International Space Station (ISS) Research and Development (R&D) Conference 2015. Boston, MA.

Azimi, E., Winkler, A., Tucker, E., Qian, L., Sharma, M., Doswell, J., Navab, N., Kazanzides, P. (2018) "Evaluation of Optical See-Through Head-Mounted Displays in Training for Critical Care and Trauma". IEEE VR Conference 2018. Reutlingen, Germany.

Collington, D., Doswell, J., Johnson, J., Messam, M., Salaam, S., Boykin, A. "The Pervasive Rapid E-Preparedness Augmented Reality Environment (PREPARE) E-Learning Intervention for HAZWOPER Training of Fire Fighter/EMTs". IEEE International Conference on Advanced Learning Technologies (ICALT) 2018. Bombay, Mumbai India.

Azimi, E., Doswell J., "Can Mixed-Reality Improve the Training of Medical Procedures?". 40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC'18) 2018. Honolulu, HI, USA.

Azimi, E., Doswell J., "Can Mixed-Reality Improve the Training of Medical Procedures?". 40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC'18) 2018. Honolulu, HI, USA.

Doswell, J., Collington, D., "Evaluating the Juxtopia® CAMMRAD Medic Augmented Reality System for Improving Point of Care Trauma Skills Training". 2018 Military Health System Research Symposium (MHSRS). Kissimmee, FL.

Joan Tilghman, Dency Watties-Daniels, Jayfus T. Doswell, Deshawn Collington, Saboor Salaam. "Innovative utilization of Augmented Reality and Simulation to Promote Nursing Practice". Annals of Nursing and Primary Care. 2018.