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| **Publications**James LaRue1, Richard Tutwiler2, Dennison LaRue3, Exploiting the Underlying Cepstral Coefficients for Large Scale and Fine-Tuned EKG Time-Imagery Analysis, including R-R, P-R, R-T, and, R-PVC interval imaging.IEEE Applied Imagery Pattern Recognition Workshop, The Cosmos Club, Washington DC, October 2016, 1Jadco Signals, 2Professor Emeritus Applied Research Lab Penn State University/CEO LiveMotion3D LLC, 3Clemson University, Senior, Biomedical Engineering.James LaRue, ‘True Analytics and Base Band Visualization: A Return to Tukey’s Exploratory Data Analysis’, Live Webinar for Charter Global Inc., May 2015. http://www.charterglobal.com/big-data-webinar-abstract/James LaRue (Jadco Signals), ‘Exploiting Striatal Beat Frequency in Real and Artificial Neural Networks with Precision Signal Processing Concepts, Invited presentation for Space and Naval Warfare Center, Charleston, SC, January 2015.James P. LaRue (Jadco Signals) and Yuriy Luzanov (AFRL-RIGC), “**Stabilizing bidirectional associative memory with principles in independent component analysis and null space**”, SPIE Defense, Security, and Sensing, 29 April - 3 May 2013, Baltimore, Maryland.James LaRue (Jadco Signals) and Bill Copeland (HTCV Information), ‘Computer Vision Tasks: Robust discrimination of objects in clutter enabled by a novel computational model to emulate human recognition’, DARPA Innovation House, Washington, D.C., November 9, 2012.Robert Barsanti (Citadel) and James LaRue (Scientific Research Corporation), ‘Peak to Average Power Ratio Reduction for Digital Video Broadcast T2’, IEEE Southeast Conference 2011, Nashville, TN. James LaRue (Scientific Research Corporation), ‘Co-Operative and Pro-active Sensors’, ITEA Annual Technology Review Conference, Charleston, SC, July, 2010.Rick Tutwiler (ARL/Penn State), Matthew S. Baran (ARL/Penn State), and James LaRue (AFRL/CACI), ‘Blind Source Separation for Digital Modulation Schemes’, Report to AFRL Information Directorate, 2008. Adam Bojanczyk (Cornell University) and James LaRue (AFRL/CACI), ‘Singular Value Decomposition Analysis for Two Channel Signal Separation’, Report to AFRL Information Directorate, 2007. Atindra Mitra\*, Lt. Sean Majo\*, James LaRue\*\*, Sean Young, L. Willemson\*, K. Sickles\*, ‘Distributed Architectures for Target Detection and Tracking’, MSS RADAR Symposium, May 2007. \* Wright Patterson AFB, \*\* AFRL/CACIJames Larue\*, Edmond Rusjan\*\*, Alfredo Vega\*, Adam Bojanczyk\*\*\*, ‘Multipath Detection and Characterization’, Passive Covert Radar Conference, October 2006, Syracuse, NY. \*AFRL, \*\* SUNYIT, \*\*\*Cornell UniversityJames LaRue (National Academies) and Andrew Noga (AFRL Information Directorate), ‘FM Click Detection and Repair, Stage Two’, Signal Processing, Sensor Fusion, and Target Recognition XIV conference, Orlando, Florida. March 30, 2005. George E. Ioup, Juliette W. Ioup, James P. Larue, Natalia A. Sidorovskaia, Stan A. Kuczaj, Grayson H. Rayborn, and Christopher D. Walker, ‘Spectrogram analysis of low to mid frequency marine mammal clicks’, J. Acoust. Soc. Am. Volume 115, Issue 5, pp. 2556-2556, 2004. |
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**Patent**

U.S. PROVISIONAL PATENT APPLICATION, EFS ID 16351917 App No. 61847685 Confir No. 4039

Receipt Date 18-Jul-2013 13:41:35 Title: J. Patrick’s Ladder A Machine Learning EnhancementTool : An Architecture for Combining Convolutional Neural Networks and Association Memory Matrices to Reduce Machine Learning Training, to Reduce Machine Execution Time, and to Produce Machine Intra-layer Connections.

(Patent Pending since August 2014 as JPAT, the Joint Proximity Association Template for multi-layer neural networks).

**Copy Write**

AVIPE – the Audio Visual Intelligence Protocol Evaluator, for analog and binary signals. September 2016.