Deep Architectures for Human and Machine Learning

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Abstract: Deep learning has a specific computing architecture as part of Machine Learning literature. Adaptive assessment was first seen in large scale commercial settings by ALEKS Corporation (now acquired by McGraw-Hill) and seen now in some features of ConnectMath. Various adaptive assessment engines exist, and future computing architectures are being designed and deployed. A possible integration of adaptive assessment with deep learning methodology is outlined.

A theoretical framework shown in a PowerPoint stack leading into a possible research based study of the daily journaling of over 100 students will also be addressed.

Dr. Prueitt has taught mathematics, physics and computer science courses in the nation's community colleges or in universities or four-year colleges. He has served as Research Professor in Physics at Georgetown University and Research Professor of Computer Science at George Washington University. He has served as Associate Professor or Assistant Professor of Mathematics at HBCUs in Virginia, Tennessee, Alabama and Georgia. Prueitt was co-director of an international research center at Georgetown University (1991-1994). He is a NSF reviewer and Principle Investigator. He served for over a decade as an independent consultant focused on information infrastructure, software platforms and intelligence algorithms. He has consulted on national intelligence software platforms. His post Master's training in pure and applied mathematics focused on real analysis, topology and numerical analysis. His PhD, earned in 1988 from The University of Texas at Arlington, was developed using differential and difference equations as models of neural and immunological function. He has over fifty publications in journals, books or as conference papers.

More information about the author and recent published research titled *New Data Analytics* can be found at http://servicetechmag.com/I88/0115-2.