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have become a central class of models in machine learning (Figure 1). Driven to optimize task performance, researchers developed and improved model architectures, hardware, and training schemes that eventually led to today's high-performance DNNs.

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Main Text Introduction. Sensorimotor integration in the domain of speech processing is an exceptionally active area of research and can be summarized by two main ideas: (1) the auditory system is critically involved in the production of speech and (2) the motor system is critically involved in the perception of speech. Both ideas address the need for "parity," as Liberman and Mattingly put ...

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*Ron Sun - Wikipedia*

Mixed-precision architecture based on computational memory for training deep neural networks. Abstract: Deep neural networks (DNN) have revolutionized the field of machine learning by providing unprecedented human-like performance in solving many real-world problems such as image or speech recognition. Training of large DNNs, however, is a computationally intensive task, and this necessitates the development of novel computing architectures targeting this application.

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