

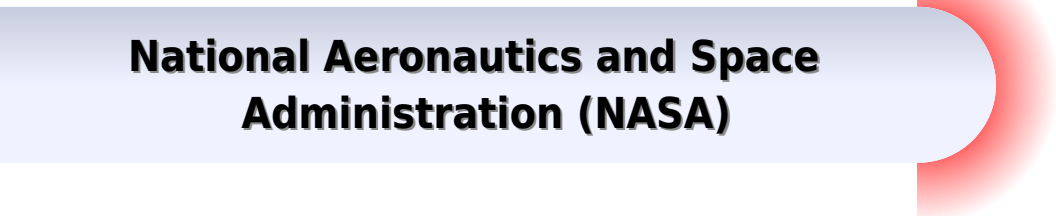
Sparse Distributed Memory (SDM)

By Uma Ramamurthy

*Cognitive Science Seminar
February 5, 2003*

Sparse Distributed Memory

**National Aeronautics and Space
Administration (NASA)**



Sparse Distributed Memory:

Sparse Distributed Memory Pentti Kanerva, 1988 Motivated by the remarkable fluidity of memory the way in which items are pulled spontaneously and effortlessly from our memory by vague similarities to what is currently occupying our attention Sparse Distributed Memory presents a mathematically elegant theory of human long term memory The book which is self contained begins with background material from mathematics computers and neurophysiology this is followed by a step by step development of the memory model The concluding chapter describes an autonomous system that builds from experience an internal model of the world and bases its operation on that internal model Close attention is paid to the engineering of the memory including comparisons to ordinary computer memories Sparse Distributed Memory provides an overall perspective on neural systems The model it describes can aid in understanding human memory and learning and a system based on it sheds light on outstanding problems in philosophy and artificial intelligence Applications of the memory are expected to be found in the creation of adaptive systems for signal processing speech vision motor control and in general robots Perhaps the most exciting aspect of the memory in its implications for research in neural networks is that its realization with neuronlike components resembles the cortex of the cerebellum Pentti Kanerva is a scientist at the Research Institute for Advanced Computer Science at the NASA Ames Research Center and a visiting scholar at the Stanford Center for the Study of Language and Information A Bradford Book **Sparse Distributed Memory: Principles and Operation** Research Institute for Advanced Computer Science (U.S.), Stanford University. Computer Systems Laboratory, M. J. Flynn, P. Kanerva, N. Bhadkamkar, 1989 **The Sparse Distributed Memory** Timothy Hely, University of Edinburgh. Department of Artificial Intelligence, 1994 *A View of Kanerva's Sparse Distributed Memory*, 1986 **Sparse Distributed Memory and Related Models** National Aeronautics and Space Administration (NASA), 2018-07-16 Described here is sparse distributed memory SDM as a neural net associative memory It is characterized by two weight matrices and by a large internal dimension the number of hidden units is much larger than the number of input or output units The first matrix A is fixed and possibly random and the second matrix C is modifiable The SDM is compared and contrasted to 1 computer memory 2 correlation matrix memory 3 feed forward artificial neural network 4 cortex of the cerebellum 5 Marr and Albus models of the cerebellum and 6 Albus cerebellar model arithmetic computer CMAC Several variations of the basic SDM design are discussed the selected coordinate and hyperplane designs of Jaekel the pseudorandom associative neural memory of Hassoun and SDM with real valued input variables by Prager and Fallside SDM research conducted mainly at the Research Institute for Advanced Computer Science RIACS in 1986 1991 is highlighted Kanerva Pentti Unspecified Center *Kanerva's Sparse Distributed Memory* National Aeronautics and Space Administration, 2019 The advent of the Connection Machine profoundly changes the world of supercomputers The highly nontraditional architecture makes possible the exploration of algorithms that were impractical for standard Von Neumann architectures Sparse distributed memory SDM is

an example of such an algorithm Sparse distributed memory is a particularly simple and elegant formulation for an associative memory The foundations for sparse distributed memory are described and some simple examples of using the memory are presented The relationship of sparse distributed memory to three important computational systems is shown random access memory neural networks and the cerebellum of the brain Finally the implementation of the algorithm for sparse distributed memory on the Connection Machine is discussed Rogers David NASA CR 185417 NAS 1 26 185417 RIACS TR 88 32 NCC2 408 NCC2 387 **Sparse Distributed Memory** Research Institute for Advanced Computer Science (U.S.),P. J. Denning,1989 **An Alternative Design for a Sparse Distributed Memory** Research Institute for Advanced Computer Science (U.S.),1989 Sparse Distributed Memory and Related Models Pentti Kanerva,Research Institute for Advanced Computer Science (U.S.),1992 Abstract This paper describes sparse distributed memory SDM as a neural net associative memory It is characterized by two weight matrices and by a large internal dimension the number of hidden units is much larger than the number of input or output units The first matrix A is fixed and possibly random and the second matrix C is modifiable The paper compares and contrasts SDM to 1 computer memory 2 correlation matrix memory 3 feed forward artificial neural network 4 cortex of the cerebellum 5 Marr and Albus models of the cerebellum and 6 Albus cerebellar model arithmetic computer CMAC Several variations of the basic SDM design are discussed the selected coordinate and hyperplane designs of Jaeckel the pseudorandom associative neural memory of Hassoun and SDM with real valued input variables by Prager and Fallside SDM research conducted mainly at RIACS in 1986 1991 is highlighted Some Comments on the Information Stored in Sparse Distributed Memory Jan Kristoferson,1995

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