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Ad Aertsen - an expedition into the brain

"How does our brain work?" For Ad Aertsen this is the most exciting question earth. The Professor of Neurobiology and Biophysics at the University of Freiburg is convinced that "this is the last expedition humans are going to undertake". And Aertsen has secured his place on it.

He has been part of the venture for more than twenty He has been part or the Venture for more than twenty years. Born in the Netherlands, Aertsen studied physics bu turned to biology during his doctorate. He investigated the auditory system of cats and frogs and measured how audion y system of cate and frogs and measured how individual nerve calls in the brain reast when the animal hears something. At first, he seel looking into individual hears contenting, at first, he seel looking into individual hears something. At first, he seel looking into individual to investigating regions of neurons. Attentive wanted to find out how they influenced each other, Back in the early 1900s, the type of early find hears a man, the total to the seel and t



A clear task - the combination of theory and experiment



Nevertheless, Aertsen knows what he wants: He wants to combine experiment and theory. He is hoping to translate the results gotten in brain measurements into models and brain examinations correspond to those gained with the computer, then we have understood our work? said Aertsen explaining his approach. "If we see discrepancies, then our model is not right."

In 1984, Ad Aertsen left the USA to work at the Max Planck Institute of Biological Cybernetics in close cooperation with the Institute's former director, Professor Valentino-Cybernetics in Color and Professor Cybernetics and Professor Cybernetics of the Professor Cybernetics of Theory of the Professor Cybernetics and Professor Cybernetics and Professor Cybernetics Indiana National Professor Cybernetics The beginning of "computational neuroscience"

The beginning of "computational neuroscience" than the BBH Januards a sail for a just research group competion. This was the first time a ministry had competion. This was the first time a ministry had considered the properties of the properties o



An Assets on cartacted 3 trails' researchers and speed a year at visiting professor at the speed theoretic bluessor before the become professor at the Westmann Institute, the speed three years at this resourced institute where he experienced one of the most. was born, a project does not be a speed of the professor of the pro

Brain machine interface (BHI): In healthy people, the motor areas of the cerebrum machine interface (BHI): In healthy people, the motor areas of the cerebrum machine interface of the interface of the cerebrum machine interface paths with an artificial gath. The scentistic use electrodes to measure the compact via an amplifier, Machinerical analyses are used to determine the interface downwards of the patient from the measured brain activity. The translated signals can then be used to cerebrum compacts or another interface.

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A detection has been steading and carrying ut research in Freburg since 1996. He control of the control

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