Center for Self-Organizing and Intelligent Systems

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Established in 1993 to assist Utah companies in developing marketable products which use the technology of intelligent systems.

Overview

1994-95 State Contract	$150,000
Matching Funds	$544,904
Cumulative	$823,904
Center Related Jobs	14
Industry Jobs Created	0
Benefiting Utah Companies:	
1994 Spin-off Companies	1
Cum. Spin-off Companies	1
Patents Applied	2
Patents Issued	0
License Agreements	2

Technologies

•**Intelligent Systems** Technology generally includes any device and/or software concept which, in one way or the other, attempts to artificially replicate unique cognizance and control abilities of the human mind.

•**Artificial neural networks** are designed to mimic the ability of the brain and central nervous system to learn and generalize from past experience.

•**Fuzzy logic** was introduced as a way of emulating the reasoning processes fundamental to human intelligence.

•**Virtual controllers** attempt to place a remote human operator or controller in a virtual environment identical to that encountered by the control process.

Status

In the first year and 3 months of its existence, CSOIS has focused upon

•**Two irrigation projects.**

•**Two applications to exercise machines.**

•**An autonomous vehicle control**

•**Plus, CSOIS is under contract** to develop a new pattern recognition product for a regional startup company, Monetary Systems Inc., and is developing a unique wheel chair virtual steering system for CPD. Both irrigation projects are currently being field tested, the two exercise machines will soon be on the market, and the vehicle control project is expected to lead to the establishment of a new Utah startup company within a year, or at most two.

Economic Impact

•**Campbell Scientific Inc.** projects sales of $5 million/year over a seven year period.

•**ProForm Fitness Products Inc.** projects first year sales of approximately $40 million.

•**Monetary Services Inc.** is a startup company with an idea for a product which has significant sales potential. CSOIS has the needed software and hardware experience to develop the product for them.