



# The American Statistical Association

## San Francisco Bay Area Chapter

Since 1928

February, 1994

### Joint Biostatistics and General Applications Program

#### Statistical Methods and Neural Networks

**Speakers:** George Watson and Jim Minor  
Syntex Research

Over the past ten years, we have been focusing research and development activity toward integrating neural network signal processing with statistical methodology. This presentation will introduce the notions of neural network processing as it relates to various statistical methods. In particular, functional representation and feature identification, such as optima, are shown to evolve simultaneously in a parallel processing sense. A case study is presented to illustrate the statistical neural network approach in two ways: (1) through use of a hybrid statistical model incorporating neural network nodes, and (2) through the use of statistical methods to train and diagnose the neural network.

**Date:** February 24, 1994

**Time:** 3:30 - 4:00 Refreshments  
4:00 - 5:00 Talk

**Place:** Pacific Bell, Room 1CN95  
2600 Camino Ramon  
San Ramon

**Reservations:** Please call Loren Schoof at (510) 823-9020 to let him know if you plan to attend.

**Directions:** From I-680 in San Ramon, take the Bolinger exit east. From Bolinger turn left on Camino Ramon. Turn left into the main entrance of Pacific Bell and park in the visitor's parking lot. Enter through the main entrance where you will be met by either Loren Schoof or David Kimble and directed to the meeting room.

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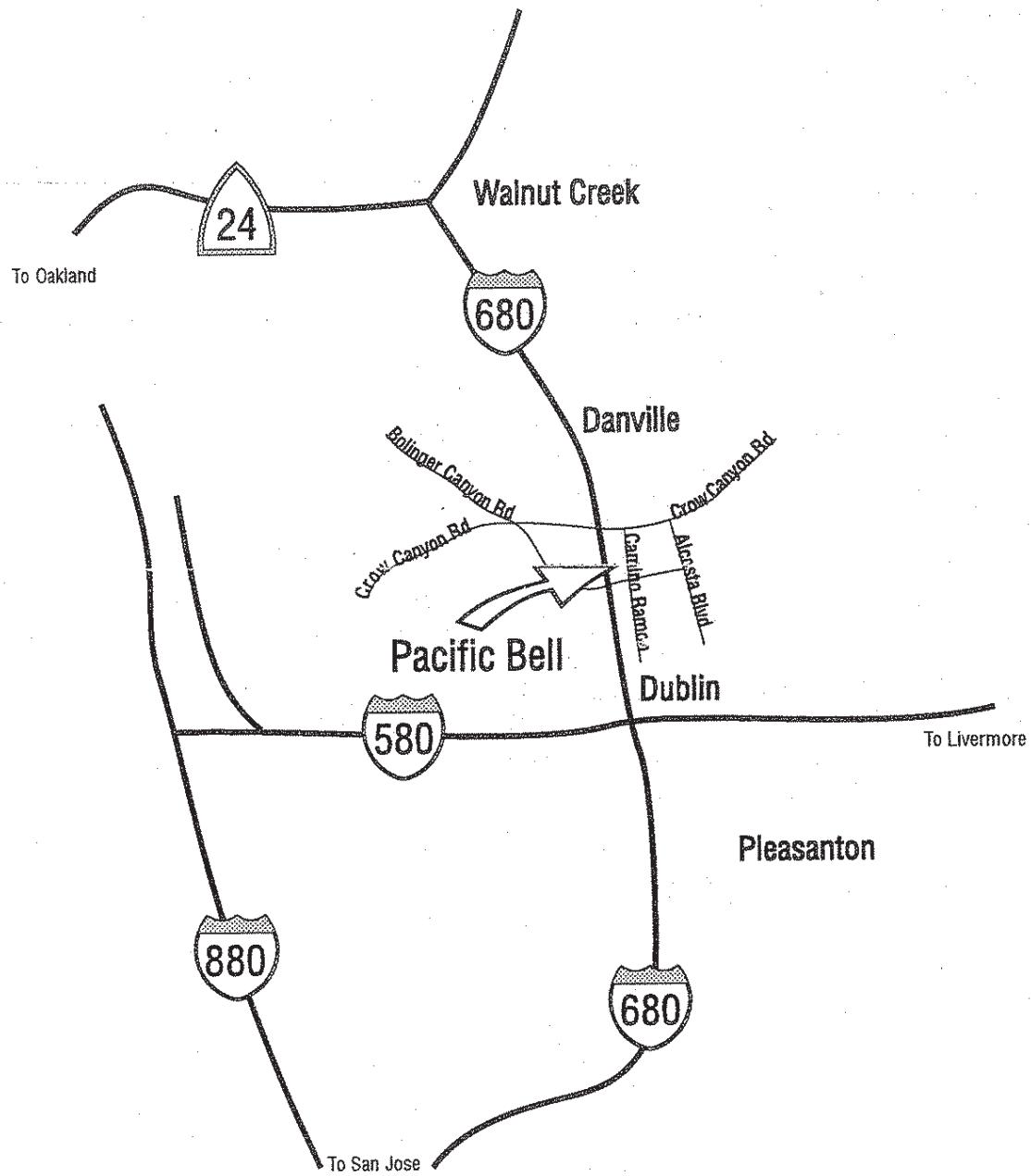
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