



THE UNIVERSITY OF MELBOURNE

School of Information Technology and Electrical Engineering

Department of Electrical and Electronic Engineering

Professor Rodney S. Tucker
Head

4th July, 1991

Mr. Rick Baker
10 Dundee Crt
Robinawoods
Queensland 4226

FAX No. 075 931005

Dear Mr. Baker,

Thank you for your letter sent by Fax on July 2 1991, regarding your new idea for assisting people to improve their performance in golf, and other sporting activities.

As I understand it, your main question to me is whether I feel it will be possible to transmit TV recordings through a telecommunications network to a remote location for processing. It is not possible to do this presently through the conventional switched telephone network because the information transmitted through the switch telephone network, be it telephone conversations or Fax transmissions, is quite small compared with the amount of information contained in a television signal. However, it would be technically feasible to transmit a short clip of a television signal (perhaps a few seconds showing a golfer's swing) via the telephone network at a **reduced** speed. This television signal could then be easily sped up at the receiving end to make it run at full speed. If you did it this way, it might take perhaps one minute to transmit the few seconds of action. However, this might not be a problem with your system as I imagine it would not necessarily be inconvenient to wait a minute or so for the processed data to be returned to the golfer.

There are many developments taking place in the telecommunications network and some of these developments, including the so called Integrated Services Digital Network (ISDN) will greatly improve the amount of information that can be transmitted through the telephone network and could greatly speed up the transmission time of the television signal. In the longer term, it is expected that optical fibers will replace many copper cables in the switch telephone network and sometime early in the next century I imagine that it will be possible to have full speed two way video transmission to almost any location in the country. This is clearly the ultimate objective of your system but it will be some time before this becomes available.

I hope this information is of assistance to you. I would be happy to discuss it further if you would like more details.

Yours sincerely,

Rodney S. Tucker
Professor and Head
Department of Electrical
& Electronic Engineering