

Coto Research Center: Athletics goes Digital

What is happening here, in essence, is that the scientific tools of biomechanics and computer technology are being applied to human and animal

SPORTS	Code	adi-pub-01234
<image/> <image/> <section-header><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></section-header>	Title	Coto Research Center: Athletics goes Digital
	Subtitle	What is happening here, in essence, is that the scientific tools of biomechanics and computer technology are being applied to human and animal
	Name	PSA
	Author	Steve Bisheff
	Published on	Saturday, May 1, 1982
	Subject	ACES; APAS; Biomechanics; Digitize; Discus; Exercise Machine; Favorite; Media; Olympics; Performance Analysis; Science; Sports; Tennis
	URL	https://arielweb.com/articles/show/adi-pub-01234
	Date	2013-01-16 15:40:50
	Label	Approved
	Privacy	Public

Coto Research Center: Athletics Goes Digital

This article discusses the innovative use of biomechanics and computer technology in sports at the Coto Research Center. The center, located in Orange County, California, is a \$1.2-million project started by Dr. Gideon Ariel, a former Olympian, and Vic Braden, a renowned tennis teacher. The center uses advanced technology to analyze and improve athletes' performance.

A typical program at the center involves filming an athlete performing their specialty, then analyzing the footage using a process known as "digitizing". This involves tracing the athlete's movement frame by frame and feeding the information into a computer. The computer then produces a printout comparing the athlete's performance to the theoretically perfect way to perform that movement.

The center also features the Wilson Ariel 4000, a computer-controlled exercise machine that monitors an individual's physical status, ability, and progress while exercising. The machine can provide instant feedback on the user's performance, including a list of required exercises and the degree of effort put forth during each repetition.

This PDF summary has been auto-generated from the original publication by arielweb-ai-bot v1.2.2023.0926 on 2023-09-28 03:42:59 without human intervention. In case of errors or omissions please contact our aibot directly at ai@macrosport.com.

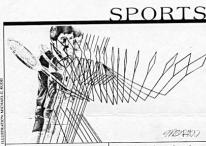
Copyright Disclaimer

The content and materials provided in this document are protected by copyright laws. All rights are reserved by Ariel Dynamics Inc. Users are prohibited from copying, reproducing, distributing, or modifying any part of this content without prior written permission from Ariel Dynamics Inc. Unauthorized use or reproduction of any materials may result in legal action.

Disclaimer of Liability

While every effort has been made to ensure the accuracy of the information presented on this website/document, Ariel Dynamics Inc. makes no warranties or representations regarding the completeness, accuracy, or suitability of the information. The content is provided "as is" and without warranty of any kind, either expressed or implied. Ariel Dynamics Inc. shall not be liable for any errors or omissions in the content or for any actions taken in reliance thereon. Ariel Dynamics Inc. disclaims all responsibility for any loss, injury, claim, liability, or damage of any kind resulting from, arising out of, or in any way related to the use or reliance on the content provided herein.

Below find a reprint of the 1 relevant pages of the article "Coto Research Center: Athletics goes Digital" in "PSA":



36 PSA May 1982

printout that compares the subject's performance to the "theoretically perfect" way to perform that particu-lar movement. The athlete then sits down with Ariel and members of his staff in an attempt to discover what must be done to perform consistently at the athlete's full potential. "Human beings are creative, but et as athete's full potential. "Human beings are creative, but et as athete's full potential. "Human beings are creative, but et as attempt to subject the star-discus thrower and shot putter in the 1960 and 1964 Olympics. "Comput-ers are ignorant, but their memories are infinite. You have to guide them step by step and channel your creativ-ity through the computer software-which is a program created by human Ariel moves over to a twelve-foot

<text><text><text><text><text><text><text><text><text><text><text>