Technology Transfer

Two Computer-based Diagnostic Systems for Diseases, Insect Pests, and Physiological Disorders of Citrus and Selected Tropical Fruit Crops

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ADDITIONAL INDEX WORDS. diagnosis, extension, computer
programs, tropical fruits

SUMMARY. The TFRUIT-Xpert and CIT-Xpert computer-
based diagnostic programs can quickly assist commercial
producers, extension agents, and homeowners in the
diagnosis of diseases, insect pest problems and physiological
disorders. The CIT-Xpert system focuses on citrus (*Citrus*
spp.), whereas the TFRUIT-Xpert system focuses on
avocado (*Persea americana* Mill.), carambola (*Averrhoa
carambola* L.), lychee (*Litchi chinensis* Sonn.), mango
(*Mangifera indica* L.), papaya (*Carica papaya* L.), and
"Tahiti" lime (*Citrus latifolia* Tan.). The systems were

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developed in cooperation with research and extension
specialists with expertise in the area of diagnosing diseases,
disorders, and pest problems of citrus and tropical fruit.
The systems' methodology reproduces the diagnostic
reasoning process of these experts. Reviews of extension
and research literature and 35-mm color slide images were
completed to obtain representative information and slide
images illustrative of diseases, disorders, and pest problems
specific to Florida. The diagnostic programs operate under
Microsoft-Windows. Full-screen color images are linked to
symptoms (87 for CIT-Xpert and 167 for TFRUIT-Xpert)
of diseases, disorders, and insect pest problems of citrus
and tropical fruit, respectively. Users can also refer to
summary documents and retrieve management information
from the Univ. of Florida's Institute of Food and Agricul-
tural Sciences extension publications through hypertext links.
The programs are available separately on CD-ROM and each
contains over 150 digital color images of symptoms.

Expert systems have been developed from a branch of
computer science known as artificial intelli-
gence (Liebowitz, 1988). Artificial intelligence is
primarily concerned with knowledge representation, prob-
lem solving, learning, robotics, and the development of
computers that can speak and understand humanlike lan-
guages (Townsend, 1987). An expert system is a computer
program that uses knowledge to solve problems that are
difficult enough to require significant human expertise
(Townsend, 1987). Simply stated, expert systems are com-
puter programs designed to mimic the thought and reason-
ing processes of a human expert.

Expert systems can be developed for many kinds of
applications involving diagnosis, prediction, consultation,
information retrieval, control, planning, interpretation, and
instruction (Edmunds, 1988; Liebowitz and DeSalvo, 1989;
Peart, 1989). They are used in applications where the
procedures or algorithms for the problem do not exist or are
poorly defined, but good rules of thumb or heuristics are
available. Although the use of expert systems in horticulture
is still limited and their primary function is as a tool for
human experts, expert systems are rapidly being accepted for
use by the nonexpert to solve problems when human
expertise is expensive, untimely, or unavailable. Today,
better development tools are available as closer interdiscipli-
nary cooperation is resulting in agricultural researchers'
gaining more insight into the theory and concepts necessary
to build effective systems (Crassweller et al., 1993; Holt,
1989).

Several notable expert systems have been developed for
use in horticulture. For example, CALEX is an expert system
that was developed for the diagnosis of peach and nectarine
plant problems by the Univ. of California (Plant et al.,
1989). Like most experts systems, CALEX is a rule-based
system and uses certainty factors, so that the knowledge base
consists of production rules in the form of IF–THEN
statements. The inference engine pieces together chains of
rules in an attempt to reach a conclusion. The knowledge
base of the CALEX diagnostic system contains about 600
rules for the diagnosis of 120 problems of peaches and
nectarines, representing most of the production problems in
California (Plant et al., 1989). CITPATH, a computerized
diagnostic key and information system, was developed to
identify five major fungal diseases of citrus foliage and fruit

Computerbased Diagnostic Systems

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Computerbased Diagnostic Systems:

Decoding **Computerbased Diagnostic Systems**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Computerbased Diagnostic Systems**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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