

## **C186 - SPECIALIST SYSTEM OF SUPPORT TO THE SOY FUNGIC DISEASE DIAGNOSE**

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The soy today is one of the main cultures developed in Brazil, what increase the specialists' agronomy area and the farmers' interest in new technologies that can contribute to improve and to maintain culture's quality. One of the causes of damages in soy culture are diseases, observing this problem a system of aid it was developed to the diagnosis of diseases in the cultivation of the soy (*Glycine max* (L) Merrill), denominated SEADDS - Specialist System of Support to the Soy Fungic Disease Diagnose. The system SEADDS was developed based on techniques of Artificial Intelligence (Specialist Systems), the system was implemented in Delphi using Expert SINTA Shell, which is a tool of Specialist Systems development. The SEADDS will aid the area specialists and the farmer in its making of decisions, facilitating by this way the soy culture handling. To accomplish the specialist task in the system SEADDS, a series of questions were created, with a specialist's help in the culture of the soy, (that constitute the rules of the Specialist System) elaborated under the characteristics of each disease. The answers supplied by the users will generate the referring data to the characteristics of the soy diseases, such data will be processed and in the end, a possible diagnosis will be pointed.

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