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"Agentes Móveis e suas Interações em um Leilão Eletrônico"

During the recent period of electric energy crisis in Brazil, many utilities have developed projects for the commercialization of part of the monthly quota of energy of some customers to other customers. These projects allowed some companies to spend less money than they would do if they had to pay for the excess quota. Motivated for this fact, a platform for experimentation of electronic auctions was developed, where the action of the final user is automatized through the use of the technology of software agents. This allows that the operations of purchase and sale occur more efficiently, in the search for the best price, as well as greater speed and scalability. In this work, the use of software agents to build complex systems and the importance of the use of standards and open systems are argued. The architecture of a system of energy auction and its forms of interaction with the user are presented, including the definition of strategies to act in the auction process. The results of tests executed on the developed platform and the conclusions on the use of this new technology are presented, including the possibilities of evolution of this environment with the aggregation of more sophisticated algorithms of decision support and with the introduction of mobile agents.