METHODS IMPLEMENTED IN COMPUTER AND COMPUTER SYSTEMS FOR AUTOMATIC ACTIVATION AND DEACTIVATION OF CONCURRENT DATA TRANSMISSIONS BETWEEN DEVICES CONNECTED TO A NETWORK

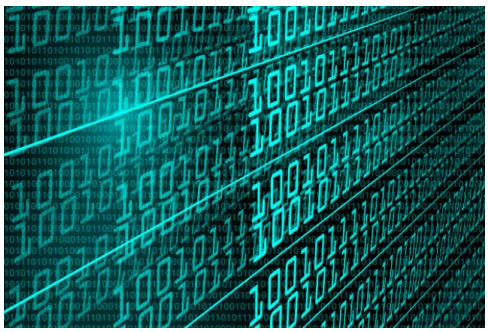
Description:

The present invention consists of a system that, inserted in the common destination node of a series of data transmission paths over the Internet through which this data is being requested repeatedly and concurrently, is capable of deciding how many of those transmissions should follow. active and how many should temporarily stop the requests, in order to maximize two aspects simultaneously: the number of transmissions that are completed before predetermined times and the value that the data transmissions that are using this invention have for the application using this invention. active. This is achieved despite the fact that the possibilities and conditions of the transmission paths and data processing vary stochastically with time, even when sudden changes appear in the time delays involved.

Keywords:
Communications, Networks, Information Flow

Sectors:
ICT

Areas:
Telecommunications, Software / Procedures, Internet and Networks



Advantages:

The invention makes it possible to decide at all times, with a low computational cost procedure, which transmission paths are active for an application that uses remote data and which are not, thereby maximizing the utility of the data at the same time as the probability of meet required times; it is capable of adapting to sudden regime changes in transmission delays; it is implantable in any system whose client node collects data from any number of remote nodes, without major modifications; Any flow regulation system can be added to meet times on individual transmission paths, thereby improving overall performance.

Uses and Applications:

The applications of a transmission path activation / deactivation procedure appear above all in systems that provide multiple types of data simultaneously and need to optimize the usefulness of the received data and meet a series of time guarantees, either for the use of those data. data by a human operator (surveillance interfaces; device remote control interfaces - eg robotic, military, medical, etc.-; telepresence interfaces; etc.) or by an automatic distributed control system.

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