

## Assessment the Quality of Telecommunication Services by Fuzzy Inferences System

**Authors :** Oktay Nusratov, Ramin Rzaev, Aydin Goyushov

**Abstract :** Fuzzy inference method based approach to the forming of modular intellectual system of assessment the quality of communication services is proposed. Developed under this approach the basic fuzzy estimation model takes into account the recommendations of the International Telecommunication Union in respect of the operation of packet switching networks based on IP-protocol. To implement the main features and functions of the fuzzy control system of quality telecommunication services it is used multilayer feedforward neural network.

**Keywords :** quality of communication, IP-telephony, fuzzy set, fuzzy implication, neural network

**Conference Title :** ICFSTA 2015 : International Conference on Fuzzy Set Theory and Applications

**Conference Location :** Paris, France

**Conference Dates :** January 23-24, 2015