

An Overview of Routing Models for MPLS Networks

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Abstract

In MPLS networks, routing is based on QoS aspects: when searching for paths for a specific traffic flow in a MPLS network, a set of traffic flow characteristics and network features are taken into account. An overview of routing models that have been recently proposed in the literature, will be presented in this communication. We think there are potential advantages in developing multicriteria routing models in this context, having in mind to grasp the multidimensional nature of the routing problem, and to represent explicitly the trade-offs among different QoS objectives. Hence, possible QoS objectives and constraints are analysed having in mind their inclusion in multiobjective routing models for IP/MPLS networks. Note that different authors propose different objectives and constraints in the formulation of routing models for IP/MPLS networks, leading to differentiated approaches to this type of routing problem. Finally, the possible inclusion of certain QoS objectives and constraints in a multiobjective routing model for MPLS will be outlined.