**Deadlock-Free Fully Adaptive Routing in Irregular Networks without Virtual Channels,** Dong Xiang, IEEE, 2013

parallel computing is an advanced method to accelerate the computing process. But, in some areas, Networks of workstations or clusters is a better choice comparing to parallel computing because of its acceptable cost and outstanding wire flexibility. Thus, many researches are focused on how to organize the clusters to achieve the best effects. Irregular networks are considered the main method in the field. There are lots of approaches, but it is just for certain specific problem until a general methodology proposed by applying the Duato’s protocol to the irregular networks. As it comes out, new problems emerge. Traffic congestion is inevitable because a single spanning tree used. Now, Dong Xiang and others propose a new flow control scheme and a novel deadlock-free fully adaptive routing algorithm.

