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## A study of the relative cost in elastic optical OFDM networks

Anwar Alyatama Kuwait University, Kuwait

Orthogonal frequency-division multiplexing (OFDM) has emerged as the preferred technology for future optical networks due to its good spectral efficiency in enabling elastic bandwidth. An important factor in the success of OFDM is routing and spectrum allocation (RSA). In this paper, we investigate the relative cost of carrying a call with a low bandwidth requirement or longer path on the total network performance. The relative cost can be used to implement an adaptive routing and spectrum allocation that is more efficient and fair. Simulation results are provided to study the feasibility and the different factors that affect the relative cost.

## Biography

Anwar Alyatama received his PhD from the Georgia Institute of Technology in 1992. He was the Kuwait University Secretary General from 2007-2011, the Assistant Vice President for Academic Services from 1998-2003 and Vice Dean for Admissions and Registration from 1994-1996. He is at present an Associate Professor in the Computer Engineering Department, Kuwait University. His interests are computer networks, telecommunications, simulation, e-learning, e-services and e-government. He is a member of IEEE, ACM and OSA.

a.yatama@ku.edu.kw

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