Dr. Maged Beshai

Data Network Designer at InventionShare

Ottawa, ON, CA

Dr. Beshai is an expert in large scale data network design

Biography

Maged's current research is directed towards an ultra-high-capacity contiguous switching system, employing fast optical switches, which may serve as a large-scale data center and/or a network of global coverage. A network based on a contiguous switching system scales to interconnect hundreds of thousands of access routers through globally distributed bufferless (preferably optical) connectors with a throughput of the order of an exabit per second (million terabits per second), which is several orders of magnitude higher than the throughput of the current global Internet. A bufferless connector may be configured as a fast (low latency) optical switch, a fast optical spectral-temporal connector, or an electronic switch. Other areas of interest include adaptive encoding and transcoding of panoramic video-signal streams, self-configuring narrow-beam flexible wireless networks, and optimal algorithms for analysis of massive social-network data.

Areas of Expertise

Switch/Router Design, Coherent Global Networks, Large-Scale Data Centers, Telecommuncations, Electrical Engineering, Network Architecture Design

Affiliations

Member of the Association of Professional Engineers of Ontario, Canada, Institute of Electrical and Electronics Engineers (IEEE)

Education

McMaster University
Ph.D. Electrical Engineering

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