Docket #: S03-121

Dynamic Spectrum Management

Stanford researchers in John Cioffi's lab have developed a method for allocating resources (bit rate and transmit power) in multi-user, multi-carrier communication systems. The invention provides the optimal power allocation algorithm for the equal-length DSL loops. Additionally, this invention provides a multi-user bit-loading algorithm for general multi-user multi-carrier systems.

Applications

- Broadband transmission
- Wireless multimedia
- DSL

Advantages

- Improved performance between systems
- Improved downlink capacity

Patents

- Issued: 7,593,426 (USA)

Innovators

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