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(CONTRIBUTIONS TO INTERNATIONAL STANDARDS)

During 2004-2005, Prof. Rajan worked with Beceem Communications Pvt. Ltd., Bangalore, on leave from IISc, as Distinguished Member of Research Staff. On behalf of this company, he participated in several IEEE 802.16 Task Group e (Mobile Wireless MAN) meetings.

IEEE 802.16's Task Group e developed, under IEEE PAR 802.16e, an amendment to IEEE Standard 802.16 ("Air Interface for Fixed Broadband Wireless Access Systems") as modified by IEEE Standards 802.16e. The 802.16e amendment covers "Physical and Medium Access Control Layers for Combined Fixed and Mobile Operation in Licensed Bands".

Dr. Rajan is a coauthor to the following Contributed Documents to IEEE 802.16e standard:

1. IEEE C802.16e-04/557r1; (IEEE C802.16e-04/557) Enhancement to 3 Tx Open-loop MIMO Transmission.
2. IEEE C802.16e-04/293r2; (IEEE S802.16e-04/557) Closed Loop MIMO Precoding.
3. IEEE C802.16e-04/296r1 Enhancements of the 4 transmit antenna rate 1 space-time code for the OFDMA PHY.
4. IEEE C802.16e-04/295 Enhancements to 4 antenna rate 2 space-time codes for the OFDMA PHY.
5. IEEE C802.16e-04/294r2 Enhancement to Space-Time Codes for 3 Transmit antennas for the OFDMA PHY.
6. IEEE C802.16e-04/293r1 Closed Loop MIMO Precoding.
7. IEEE C802.16e-04/292 Modification to Open-Loop MIMO Precoding.
8. IEEE C802.16e-04/291r1 Fast Link Adaptation Feedback.
9. IEEE C802.16e-04/163r6 H-ARQ MAC Support for MIMO OFDMA.
10. IEEE C802.16e-04/211 Modified Pilot Allocation for AMC and Optional PUSC Uplink Subchannels for STC Mode.
11. IEEE C802.16e-04/208r2; (IEEE C802.16e-04/208r1); IEEE C802.16e-04/208 Space-Time Codes for 3 Transmit antennas for the OFDMA PHY.
12. IEEE C802.16e-04/204r1; (IEEE C802.16e-04/204) Enhancements of Space-Time Codes for the OFDMA PHY.
13. IEEE C802.16e-04/163r1; (IEEE C802.16e-04/163) Enhanced H-ARQ MAC Support for MIMO OFDMA.
14. IEEE C802.16e-04/161r3; (IEEE C802.16e-04/161r2); IEEE C802.16e-04/161r1; IEEE C802.16e-04/161 Enhancements with MIMO Midambles for Cellular OFDMA Systems.
15. IEEE C802.16e-04/159r2; (IEEE C802.16e-04/159r1); IEEE C802.16e-04/159 Improved Data and Pilot Allocation for Cellular OFDMA Systems with Multiple Antennas.