SYSTEM AND METHOD FOR OPERATING CONFORMAL ANTENNA

ABSTRACT

A method and system are presented for managing operation of a conformal phased-array antenna. The method comprises: providing structural data about the antenna to be operated, said structural data comprising data indicative of a geometry of a curved radiating surface defined by an arrangement of N antenna elements of the phased array and data indicative of said arrangement of N antenna elements; utilizing input data indicative of a selected direction of antenna operation and processing said structural data about the antenna, said processing comprising determining operational data for each of the antenna elements defining a desired radiation pattern of the antenna for said selected direction, said operational data comprising amplitude, phase and polarization of radiation for each antenna element.

Figure 1A