Abstracts

A real-time close-range imaging system with fixed antennas

B. Michael, W. Menzel and A. Gronau. "A real-time close-range imaging system with fixed antennas." 2000 Transactions on Microwave Theory and Techniques 48.12 (Dec. 2000 [T-MTT] (Special Issue on 2000 International Microwave Symposium)): 2736-2741.

A coherent system with two stepped frequency radar sensors separated by 1-2 m is presented in this paper for close-range imaging. Resolution is achieved via range resolution from the two different sensor positions, exploiting both monostatic and bistatic responses. A first test had been performed using a vector measurement equipment for an antenna measurement range as a radar simulator, and a mobile experimental system was built and tested, which included stationary and mobile targets.

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