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Report of the Statistician Volume 37-47

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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 22 pages. Original publisher: Adelphi, MD : Army Research Laboratory, 1999 OCLC Number: (OCoLC)310976895 Subject: Synthetic aperture radar. Excerpt: . . . Conclusions Frequency-stepped radar data were collected on a slowly moving 1994 Chevy Cheyenne 1500 series pickup truck at K-band for VV polarization. Extensive radar and optical registration measurements were made. An initial analysis of the data was performed. The stationary and mobile registration reflectors were visible and sharply imaged. HRR profiles of the target looked good for most of the runs. On a few runs, false or ghost images of the target were seen in HRR profiles. This problem is being investigated. A new MRRR reflector was designed and built to help register the radar data. The reflector modulated a radar signal that could be analyzed to estimate the target motion. However, there were lateral oscillations in the motion of the reflector that complicated the estimations of the motion of the target. Future tests should develop techniques to eliminate the problem. Currently, ARL and the Naval Research Laboratory (NRL) are developing algorithms that can be tested using these data 5 . Testing these...



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