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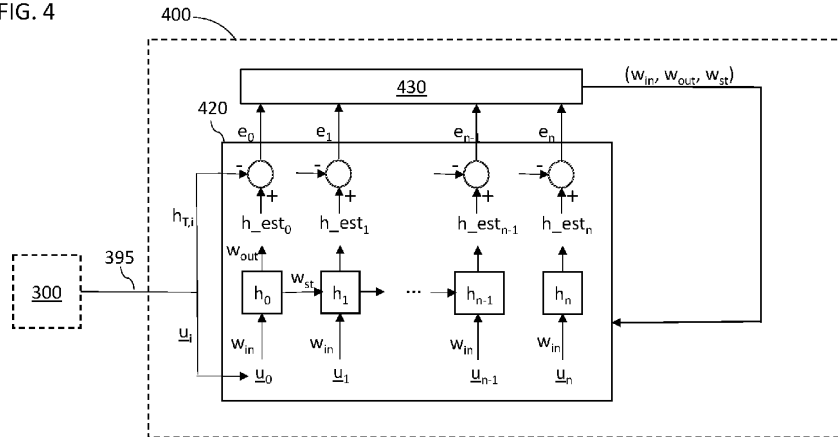
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(54) Title: NOVEL METHOD FOR TARGET HEIGHT ESTIMATION USING MULTIPATH CORRUPTED RADAR MEASUREMENTS

FIG. 4



(57) Abstract: A method for estimating a true height of a target from received radar signals scattered from the target and a surface in a multipath scenario, includes: deriving from a sequence of radar measurements received over a period of time successive data pairs of a measure of slant range and a multipath corrupted (MPC) target elevation; generating from the data pairs a representation of the variation of MPC target elevation with slant range over a range window having a variable length; inputting the representation to a Sequence-to-Sequence (Seq2Seq) neural network which has been trained on a dataset comprising variations of MPC target elevation with slant range for targets at different heights; and generating an estimate of the true height of the target using the trained neural network.

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