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(57) Abstract :

An augmented reality based training system comprises a targeting unit embedded with at least one optical marker; emulating headset comprising a set of sensors to sense one or more attributes of the at least one optical marker. A processing unit to determine position of the targeting unit with respect to the emulating headset by selecting a first set of attributes from the sensed one or more attributes, wherein the first set of attributes is associated with position parameters of the targeting unit. Determine orientation of the targeting unit with respect to horizontal plane and vertical plane by selecting a second set of attributes from the sensed one or more attributes, wherein the second set of attributes is associated with orientation parameters of the targeting unit, responsive to triggering of the targeting unit at the determined position and orientation of the targeting unit, determine position of the target that gets hit.

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