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(54) **NOVEL MAN MACHINE INTERFACES AND APPLICATIONS**

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(57) **ABSTRACT**

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The invention is aimed at providing affordable methods and apparatus for inputting position, attitude(orientation) or other object characteristic data to computers for the purpose of Computer Aided learning, Teaching, Gaming, Toys, Simulations, Aids to the disabled, Word Processing and other applications.

(\* ) **Notice:** This is a publication of a continued prosecution application (CPA) filed under 37 CFR 1.53(d).

Preferred embodiments of the invention utilize electro-optical sensors, and particularly TV Cameras, providing optically inputted data from specialized datum's on objects and/or natural features of objects. Objects can be both static and in motion, from which individual datum positions and movements can be derived, also with respect to other objects both fixed and moving. Real-time photogrammetry is preferably used to determine relationships of portions of one or more datums with respect to a plurality of cameras or a single camera processed by a conventional PC.

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