interesting in that elastic fingertip caps may use less material than a glove, and elastic fingertip caps may be conformable to various finger sizes and shapes of multiple users.

[0027] In some embodiments, a system may include a processor. The processor may be programmed, trained, or otherwise configured to identify commands from the user based at least partly on signals from multiple sensors of the system. As discussed above, a user engaged in nominal performance of a task may generate task signals associated with the task. For example, in a grinding task in which a user may be wearing sensors on their fingertips, the grinding task itself may require some force to be applied by the fingers of the user during the task. However, while there may be certain constraints associated with the forces applied to the sensors during performance of a task, the overall distribution and combination of forces among the fingertips, or sensors associated with other locations, during performance of a task may still be controlled within some range outside the expected combination of forces applied during nominal performance of the task. For example, in one embodiment, even though the sum of the forces generated by the fingers may be partially constrained, a user may communicate a command to a system by changing the distribution of the forces among the fingertips, applying forces greater than a threshold force to one or more fingertips, applying a combination of forces to a plurality of fingertips, and/or any other appropriate combination of force inputs to the sensors to communicate a command to a system. Thus, the system may identify commands from the user based at least in part on forces applied to individual sensors, a combination of the plurality of sensors, and a distribution of the forces at the fingertips.

[0028] In some embodiments, sensor signals associated with a task may need to be characterized in order to determine a nominal operational range of signals received from the sensors during performance of a given task. Thus, in some embodiments, an initialization or calibration may be performed for either an individual or a population of users who may perform the task. Depending on the embodiment, calibrating the operational range of the sensor signals may either be done once and stored in the memory of a system for subsequent usage, as might be done when a system is calibrated for use based on the operational range determined from a population of users, and/or the system may be calibrated each time the sensors are put on a user’s body. In either case, sensor signals associated with nominal performance of a task, which may be referred to as task signals, may be characterized during one or more training executions of a task. A training execution of a task may include a user