

cellular telephone. It should be understood, however, that the mobile station illustrated and hereinafter described is merely illustrative of one type of electronic device that would benefit from the present invention and, therefore, should not be taken to limit the scope of the present invention. While several embodiments of the mobile station **10** are illustrated and will be hereinafter described for purposes of example, other types of mobile stations, such as personal digital assistants (PDAs), pagers, laptop computers, as well as other types of electronic systems including both mobile, wireless devices and fixed, wireline devices, can readily employ embodiments of the present invention.

[0023] The mobile station includes various means for performing one or more functions in accordance with embodiments of the present invention, including those more particularly shown and described herein. It should be understood, however, that the mobile station may include alternative means for performing one or more like functions, without departing from the spirit and scope of the present invention. More particularly, for example, as shown in FIG. 2, in addition to an antenna **202**, the mobile station **10** may include a transmitter **204**, a receiver **206**, and an apparatus that includes means, such as a processing device **208**, e.g., a processor, controller or the like, that provides signals to and receives signals from the transmitter **204** and receiver **206**, respectively, and that performs the various other functions described below including, for example, the functions relating to providing an input gesture indicator.

[0024] As discussed above with regard to FIG. 2 and in more detail below with regard to FIG. 3, in one embodiment, the processing device **208** may be configured to determine a characteristic associated with one or more tactile inputs detected by the mobile station **10**; receive contextual information associated with the current state of the mobile station **10**; identify one or more operations likely to be requested by the user based at least in part on the determined characteristic (s) and the received contextual data; and to then cause an indicator associated with the identified operation to be displayed, wherein the indicator illustrates a gesture to be performed by the user in order to request the identified operation.

[0025] As one of ordinary skill in the art would recognize, the signals provided to and received from the transmitter **204** and receiver **206**, respectively, may include signaling information in accordance with the air interface standard of the applicable cellular system and also user speech and/or user generated data. In this regard, the mobile station can be capable of operating with one or more air interface standards, communication protocols, modulation types, and access types. More particularly, the mobile station can be capable of operating in accordance with any of a number of second-generation (2G), 2.5G and/or third-generation (3G) communication protocols or the like. Further, for example, the mobile station can be capable of operating in accordance with any of a number of different wireless networking techniques, including Bluetooth, IEEE 802.11 WLAN (or Wi-Fi®), IEEE 802.16 WiMAX, ultra wideband (UWB), and the like.

[0026] It is understood that the processing device **208**, such as a processor, controller or other computing device, may include the circuitry required for implementing the video, audio, and logic functions of the mobile station and may be capable of executing application programs for implementing the functionality discussed herein. For example, the processing device may be comprised of various means including a digital signal processor device, a microprocessor device, and

various analog to digital converters, digital to analog converters, and other support circuits. The control and signal processing functions of the mobile device are allocated between these devices according to their respective capabilities. The processing device **208** thus also includes the functionality to convolutionally encode and interleave message and data prior to modulation and transmission. The processing device can additionally include the functionality to operate one or more software applications, which may be stored in memory. For example, the controller may be capable of operating a connectivity program, such as a conventional Web browser. The connectivity program may then allow the mobile station to transmit and receive Web content, such as according to HTTP and/or the Wireless Application Protocol (WAP), for example.

[0027] The mobile station may also comprise means such as a user interface including, for example, a conventional earphone or speaker **210**, a ringer **212**, a microphone **214**, a display **316**, all of which are coupled to the processing device **208**. The user input interface, which allows the mobile device to receive data, can comprise any of a number of devices allowing the mobile device to receive data, such as a keypad **218**, a touch-sensitive input device, such as a touchscreen or touchpad **226**, a microphone **214**, or other input device. In embodiments including a keypad, the keypad can include the conventional numeric (0-9) and related keys (#, *), and other keys used for operating the mobile station and may include a full set of alphanumeric keys or set of keys that may be activated to provide a full set of alphanumeric keys. Although not shown, the mobile station may include a battery, such as a vibrating battery pack, for powering the various circuits that are required to operate the mobile station, as well as optionally providing mechanical vibration as a detectable output.

[0028] The mobile station can also include means, such as memory including, for example, a subscriber identity module (SIM) **220**, a removable user identity module (R-UIM) (not shown), or the like, which typically stores information elements related to a mobile subscriber. In addition to the SIM, the mobile device can include other memory. In this regard, the mobile station can include volatile memory **222**, as well as other non-volatile memory **224**, which can be embedded and/or may be removable. For example, the other non-volatile memory may be embedded or removable multimedia memory cards (MMCs), secure digital (SD) memory cards, Memory Sticks, EEPROM, flash memory, hard disk, or the like. The memory can store any of a number of pieces or amount of information and data used by the mobile device to implement the functions of the mobile station. For example, the memory can store an identifier, such as an international mobile equipment identification (IMEI) code, international mobile subscriber identification (IMSI) code, mobile device integrated services digital network (MSISDN) code, or the like, capable of uniquely identifying the mobile device. The memory can also store content. The memory may, for example, store computer program code for an application and other computer programs.

[0029] For example, in one embodiment of the present invention, the memory may store computer program code for determining a characteristic associated with one or more tactile inputs detected by the mobile station **10** on the touchscreen or touch display **226** (e.g., number, force, hand pose, finger identity, etc.). The memory may further store computer program code for receiving contextual information associated with the current state of the mobile station **10** (e.g., the