

12. A three-dimensional topographical modeling system, said system comprising:
- a control surface that is adjustable to provide a tactile-detectable graphical representation of a three-dimensional graphical image and associated physical characteristics;
  - a sensitivity element that detects external force applied to said control surface;
  - a controller that adjusts said tactile-detectable graphical representation to model said associated physical characteristics of said graphical image when said external force is applied to said control surface; and
  - an optical layer that detects a color of an object applying external force to said control surface.
13. A three-dimensional topographical modeling system, said system comprising:
- a control surface that is adjustable to provide a tactile-detectable graphical representation of a three-dimensional graphical image and associated physical characteristics;
  - a sensitivity element that detects external force applied to said control surface;
  - a controller that adjusts said tactile-detectable graphical representation to model said associated physical characteristics of said graphical image when said external force is applied to said control surface, wherein said controller renders a three-dimensional image from said sensed external force, such that a three-dimensional image with defined physical characteristics is scanned.
14. The three-dimensional topographical modeling system according to claim 13, wherein said scanned three-dimensional image with defined physical characteristics is output as a graphical image with associated physical characteristics to a three-dimensional topographical modeling system.
15. A method for three-dimensional topographical modeling, said method comprising the steps of
- controlling a control surface that is adjustable to provide a graphical representation of a three-dimensional graphical image and associated physical characteristics, wherein said controlling a control surface step comprises controlling a plurality of actuators that control the internal force applied to a flexible material by each of said plurality of mechanisms dispersed about said flexible material;
  - detecting external force applied to said control surface; and
  - adjusting said tactile-detectable graphical representation to model said associated physical characteristics of said graphical image when said external force is applied to said control surface.
16. The method for three-dimensional topographical modeling according to claim 15, wherein said step of controlling a plurality of actuators further comprises the step of:
- controlling the resistance of each of said plurality of mechanisms.
17. The method for three-dimensional topographical modeling according to claim 15, wherein said step of controlling a plurality of actuators further comprises the step of:
- controlling the temperature of each of said plurality of mechanisms.
18. The method for three-dimensional topographical modeling according to claim 15, wherein said step of controlling a plurality of actuators further comprises the step of:
- controlling the vibration of each of said plurality of mechanisms.

19. The method for three-dimensional topographical modeling according to claim 15, wherein said step of controlling a plurality of actuators further comprises the step of:
- detecting external force applied to said plurality of mechanisms.
20. The method for three-dimensional topographical modeling according to claim 15, wherein said method further comprises:
- controlling a display surface embedded within said control surface with a visual graphical representation of said graphical image.
21. The method for three-dimensional topographical modeling according to claim 15, wherein said method further comprises the step of:
- mapping control signals that determine said tactile-detectable graphical representation and said visual graphical representation from said graphical output.
22. The method for three-dimensional topographical modeling according to claim 21, wherein said step of mapping control signals further comprises the step of:
- determining said control signals for said tactile detectable graphical representation from an expected reaction of said physical characteristics to said external force.
23. A method for three-dimensional topographical modeling, said method comprising the steps of:
- controlling a control surface that is adjustable to provide a graphical representation of a three-dimensional graphical image and associated physical characteristics;
  - detecting external force applied to said control surface, wherein said step of detecting external force comprises detecting the temperature of external force applied to said plurality of mechanisms; and
  - adjusting said tactile-detectable graphical representation to model said associated physical characteristics of said graphical image when said external force is applied to said control surface.
24. A method for three-dimensional topographical modeling, said method comprising the steps of:
- controlling a control surface that is adjustable to provide a graphical representation of a three-dimensional graphical image and associated physical characteristics;
  - detecting external force applied to said control surface; detecting a color of an object applying external force to said control surface; and
  - adjusting said tactile-detectable graphical representation to model said associated physical characteristics of said graphical image when said external force is applied to said control surface.
25. A method for three-dimensional topographical modeling, said method comprising the steps of:
- controlling a control surface that is adjustable to provide a graphical representation of a three-dimensional graphical image and associated physical characteristics;
  - detecting external force applied to said control surface; and
  - adjusting said tactile-detectable graphical representation to model said associated physical characteristics of said graphical image when said external force is applied to said control surface, wherein said adjusting said tactile-detectable graphical representation step comprises rendering a three-dimensional image from said sensed external force, such that a three-dimensional image with defined physical characteristics is scanned.