CLAIMS

What is claimed is:

1. Use of a sensor array, a controller, software, and a stimulator array for determining and modifying the electromagnetic field of a patient's heart, wherein the sensor array comprises one or more sensors configured to detect the electromagnetic field of a patient's heart;

establishing a communications link between the sensor array and the controller;

receiving, on the controller, one or more signals corresponding to the one or more sensors;

translating, on the controller, the one or more signals into sensor data;

executing software on the controller, the software displaying the sensor data in human-readable format, the sensor data corresponding to the electromagnetic field of a patient's heart;

transmitting, from the controller to the stimulator array;

emitting an electromagnetic field from the stimulator array to a patient's heart, the emitted electromagnetic field relating to the initial sensor data collected by the sensor array.

2. The use of claim 1, wherein the sensors include one or more ECG electrodes.
3. The use of claim 1, wherein the stimulator array includes at least one more or electromagnets.
4. The use of claim 1, wherein the stimulator array includes at least one or more light-emitting diodes.
5. The use of claim 1, wherein the light-emitting diodes emit light between visible and infrared light.

6. The use of claim 1, further comprising the step of establishing a communications link between the controller and the stimulator array, and, via the software, sending feedback signals from the controller to the stimulator array to modify the electromagnetic activity of a patient's heart.
7. The use of claim 1, wherein the software is enabled for post-processing of sensor data.
8. The use of claim 1, wherein the user reads the condition of an electromagnetic field of a patient's heart as determined by the one or more sensors via one or more output graphs.
9. The use of claim 1, wherein the stimulator array creates an electromagnetic field that affects the electromagnetic activity of a patient's heart.
10. The use of claim 1, wherein the controller calculates the force momentum of the heart, value β, according to the formula:

$$Force\ Momentum = \frac{vQR + vRS + vST}{\frac{tQT}{\sqrt{tRR}}}$$

11. The use of claim 10, wherein the value of force momentum dictates the electromagnetic field produced by the stimulator array.
12. A system of determining and modifying the electromagnetic activity of a patient's heart, comprising:

    a sensor array, a controller, software, a stimulator array, and a power supply;

    the sensor array comprising one or more sensors configured to detect the electromagnetic activity of a patient's heart;

    the sensor array in communication with the controller, the controller configured to translate signals received from the one or more sensors and translate the signals into sensor data; and

the controller executing software, the software configured to output the sensor data received from the controller to enable a user to read the electromagnetic activity of a patient's heart by the one or more sensors.

13. The system of claim 12, wherein the sensors include at least one or more of ECG electrodes.
14. The system of claim 12, wherein the stimulator array includes at least one or more electromagnets.
15. The system of claim 12, wherein the stimulator array includes at least one or more light-emitting diodes.
16. The system of claim 12, wherein the controller is configured to be in communication with the sensor array to send feedback signals to the stimulator array to modify the electromagnetic activity of a patient's heart.
17. The system of claim 12, wherein the user reads the electromagnetic conditions of a patient's heart as determined by the one or more sensors via one or more output graphs.
18. The system of claim 12, wherein the stimulator array creates an electromagnetic field that affects the electromagnetic activity of a patient's heart.
19. The system of claim 12, wherein the sensor array, controller, software, stimulator array, and power supply are in a singular integrated, portable housing.