

# INTERNATIONAL JOURNAL OF RESEARCH IN COMPUTER APPLICATION & MANAGEMENT

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## FINDING INVISIBLE AND NON-MEASURABLE IMPEDANCE VALUES INSIDE THE OBJECT

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**VPIMSR**  
**SANGLI**

### ABSTRACT

Computers are widely used in the area of simulation, modeling. The main objective of such methods is to know the invisible and measurable properties of the object. Simulation methods are used to understand the molecular interactions and activity. Imaging is similar to simulation but is generally used at macroscopic level. There are different applications mainly in the medical diagnosis, architecture etc. Impedance tomography is one of the emerging methods of imaging and it has several advantages. In this paper researcher find the impedances at the non-measurable regions such as inside the object by combining centroid formula and line DDA algorithm.

### KEYWORDS

impedance, object, modeling, non-measurable region, simulation.

### INTRODUCTION

It's very easy to find directly the impedances on the open surface but not inside the closed surface of an object. This paper gives an idea about, how we can calculate impedances inside closed surface of an object which is invisible with the help of few visible and measurable values on surface.

### OBJECTIVES OF THE RESEARCH

1. To understand the need of the calculation of the impedances
2. To define the mathematical problem
3. Design of algorithm and flowchart
4. Development of visualization package for the impedance tomography

### THEORETICAL BACKGROUND

#### IMPEDANCE

Impedance is one of the measurable quantity. It can be used to determine the hydration level of non biological objects. The basic formula for impedance is -  
 $Z = V/I$

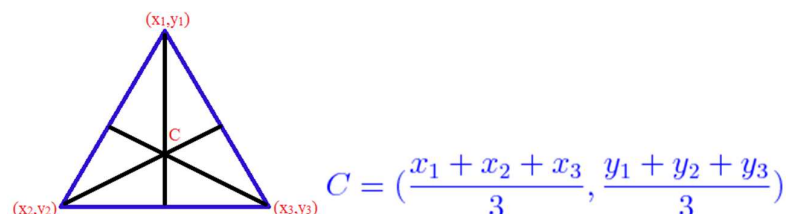
Where, V and I are the potential and electric current respectively. It's easy to find directly the impedances on the open surface but not inside the closed surface.

#### LINE DDA ALGORITHM

1. Define the nodes, i.e end points in form of  $(x_1, y_1)$  and  $(x_2, y_2)$ .
2. Calculate the distance between the two end points vertically and horizontally, i.e  $dx = |x_1 - x_2|$  and  $dy = |y_1 - y_2|$ .
3. Define new variable name 'pixel', and compare dx and dy values,  
 if  $dx > dy$  then  
 pixel = dx  
 else  
 pixel = dy.
4.  $dx = dx / \text{pixel}$   
 and  $dy = dy / \text{pixel}$
5.  $x = x_1$ ;  
 $y = y_1$ ;
6. while ( $i < \text{pixel}$ ) compute the pixel and plot the pixel with  $x = x + dx$  and  $y = y + dy$ .

#### CENTROID FORMULA

Centroid of any object means central point of that object. To find centroid of any object we need to sum all the corner or known points and divide it by number of points. e.g. If there are 8 input points then we have to add all values of 8 points and divide it by 8 to get centroid of that object. The Centroid of a Triangle is the center of the triangle that can be calculated by using following formula.



Where,

C is the centroid of the triangle.

$x_1, x_2, x_3$  are the x-coordinate's of the vertices of the triangle.

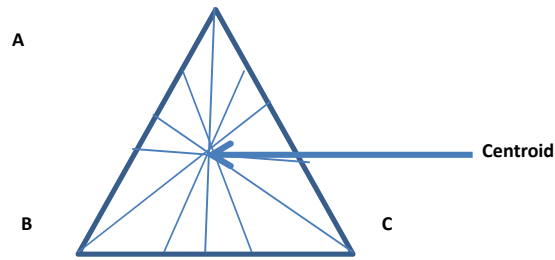
$y_1, y_2, y_3$  are the y-coordinate's of the vertices of the triangle.

#### FINDING INSIDE POINTS BY COMBINING LINE DDA ALGORITHM AND CENTROID FORMULA

1. Get input points and their respective values i.e. get few visible and measurable impedance values at their respective points.
2. Connect all input points of an object one by one in such a manner it will cover outer boundary of an object. All points on boundary and all points inside boundary create one surface of an object.
3. By using line drawing algorithm find out points on each boundary line of an object.
4. By using centroid formula find out central point of an object
5. By connecting central point to the each point on boundary line which will create number of lines inside the object as shown in figure below:



FIG. 1: IMAGE PREPARED BY COMBINING LINE DDA ALGORITHM AND CENTROID FORMULA



Where, A,B,C are input points

6. Now again by using line DDA algorithm find out points on each line inside object. In this way we get all the points inside the object.
7. For visualization of the object we need to store all the points in suitable database.
8. By using suitable graphics software we can draw an image with the help of above database where all the points related to particular object are stored. With the help of tooltip control we can easily read impedance value at particular point by dragging mouse over an image.

**SAMPLE INPUT OUTPUT SCREENS**

Here some inputs and its respective output screens are given. We can give new inputs as well as see results of inputs which are already stored in the database. As new inputs given they are stored into database. Also we can maximize/zoom the original image. These all shown in following sample screens.

FIG. 2: NEW OBJECT CREATED BY PASSING VALUES (TRIANGULAR OBJECT)

Object Name:

Test Date:

**Give Input Points with its Impedance Values**

Value at X:

Value at Y:

Value at Z:

Impedance Value:

Given input points with impedance values as

	X VALUE	Y VALUE	Z VALUE	IMPEDANCE VALUE
▶	100	300	100	100
	200	200	100	200
	300	300	100	300
*				

FIG. 3: IMAGE DRAWN BASED ON THE ABOVE VALUES (TRAGULAR OBJECT)

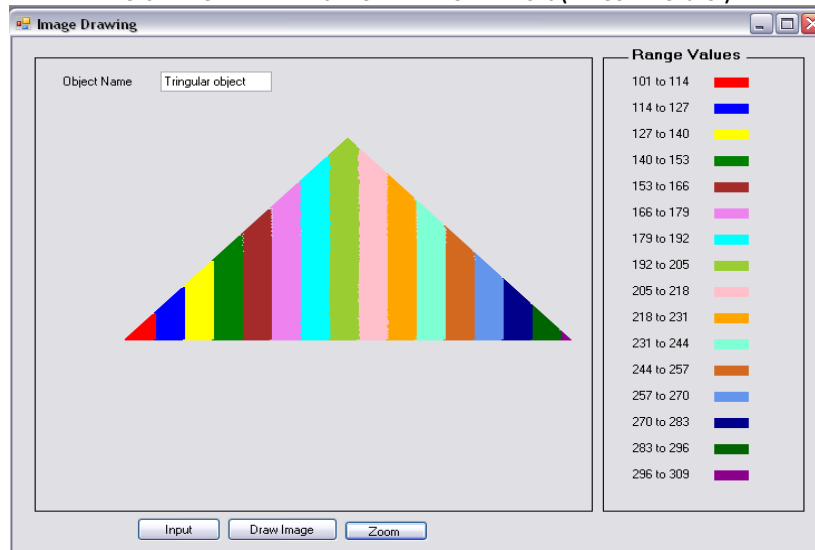


FIG. 4: OBJECT SELECTION (RANDOM OBJECT)

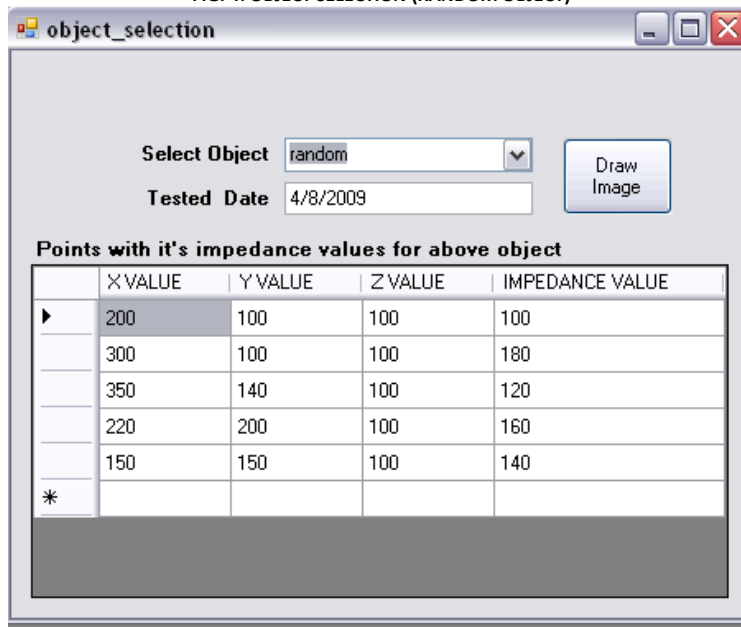
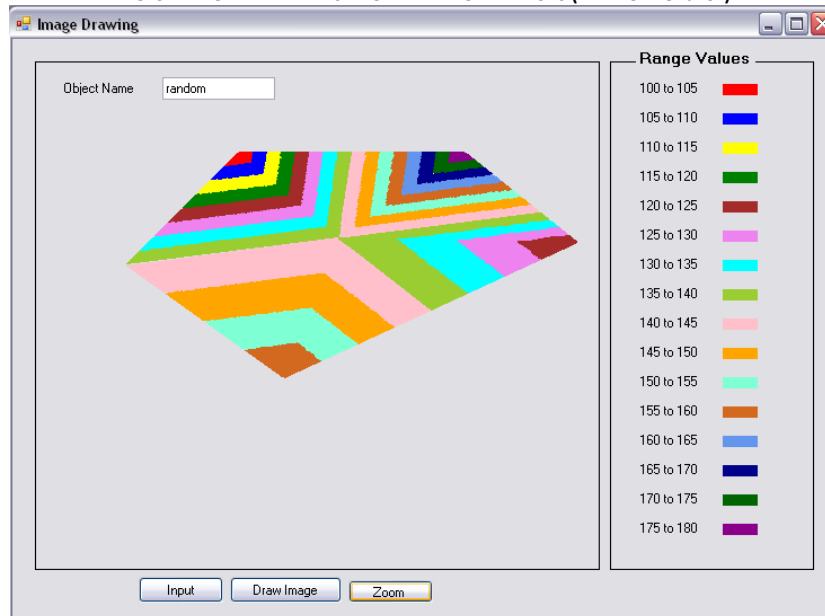


FIG. 5: IMAGE DRAWN BASED ON THE ABOVE VALUES (RANDOM OBJECT)



Note: User can apply above formula for n number of input points as shown in above random object (Fig. 5).

**EXPECTED OUTCOMES AND THEIR IMPORTANCE**

The calculated value of impedance gives the valuable information about the status of hydration level inside the object.

**REQUIREMENTS FOR EQUIPMENT, MATERIALS, FIELD TRIPS, AND FUNDING (IF APPLICABLE)**

Experimental setup of impedance measurement, Computer with printer, Microsoft Visual Studio 2005(dot net environment) or higher version.

**FUTURE SCOPE**

Present study has many applications in medical, civil and mechanical engineering. It is a non-destructive method of analysis so it has a wide scope in the field of Civil Engineering for the testing of wall of Dam, strength of pillars of multistoried building. In Medical field it has applications for the diagnosis of tooth carries, tumor, Bone Density, and Water content of Biological system.

**CONCLUSION**

To find central point centroid formula is available and to find points on line, line DDA algorithm is available. In present study researcher tried to find new algorithm for finding inside points of an object which will help in finding status of hydration level inside object.

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