

Evo Monalisa

Jan-Patrick Schulze

4. Februar 2019

Inhaltsverzeichnis

1	Teamwork	2
1.1	Who Does what?	2
1.2	work structure	2
1.3	ideas	2
2	Introduction	2
2.1	General topic	2
3	Problem Description	2
4	Related Work	2
5	Proposed Approaches	2
6	Implementation Details	2
6.1	Code Snippets	2
6.1.1	Fix the endless loop	3
6.1.2	Fix the Gui elements	3
6.1.3	Fix the Draw Labels	3
7	Experimental Results and Statistical Tests	4
8	Concolutions and Future Work	4

1 Teamwork

1.1 Who Does what?

1.2 work structure

1.3 ideas

2 Introduction

2.1 General topic

3 Problem Description

4 Related Work

Related Algorithms, Applications

!Evolutionary Algorithms (Genetic Algorithms; Collective Intelligence like Particle Swarm Optimization - PSO, Ant Colony Optimizaton - ACO; Evolutionary Multiobjective Optimization, ...)

5 Proposed Approaches

Input/Output Format, Benchmarks (Generation, Examples)

Algorithms in Pseudocode

6 Implementation Details

Application Structure

GUI Details

UML Diagram

Used Libraries

Code Snippets

6.1 Code Snippets

```
// Hello.java
import javax.swing.JApplet;
import java.awt.Graphics;

public class Hello extends JApplet {
    public void paintComponent(Graphics g) {
        g.drawString("Hello, world!", 65, 95);
    }
}
```

6.1.1 Fix the endless loop

```
/*
 * Defines New Thread
 */
private void start()
{
    t1 = new Thread(){
        @Override
        public void run(){
            try {
                Compare(textFieldOpen.getText());
            } catch (IOException e) {
                // TODO Auto-generated catch block
                e.printStackTrace();
            }
        }
    };
    t1.start();
}

private void stop()
{
    t1.stop();
}
```

6.1.2 Fix the Gui elements

init JFrame

```
private void initialize() {
    frame = new JFrame();
    // Set the Size of the Window
    frame.setBounds(100, 100, 828, 553);
    // Set a fixed MinSize of the Window
    frame.setMinimumSize(new Dimension(828,553));
    // Set Window in the Middle
    frame.setLocationRelativeTo( null );
    // Do Exit on the Window Cross
    frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
}
```

Set SplitPane Divider fixed

```
splitPane.setEnabled(false); // set SplitPane Divider Fixed //
splitPane_1.setEnabled(false); // *****/
```

6.1.3 Fix the Draw Labels

```
// new Method to Draw Labels (fix stuck value)
private static void setText(final JLabel label, final String text){
    label.setText(text);
    label.paintImmediately(label.getVisibleRect());
}
```

7 Experimental Results and Statistical Tests

Simulations (Play with the Parameters!) Use Benchmarks Tables: input data
details, results of different algorithms Charts Evaluations

8 Conclusions and Future Work

How was the team work

What you have learned

Ideas for the future development of your application, new algorithms