Image Processing using Graphs

2nd Semester of 2004

Alexandre Xavier Falcão

afalcao@ic.unicamp.br.

Institute of Computing - University of Campinas

Hello! This is a test to separate letters, words, and lines.

For example, consider Circular relation with $\rho=2$ for labeling letters of a binary text;

```
Hello! This is a test
to separate letters,
words, and lines.
```

Circular relation with $\rho=25$ for labeling words of a text; and

```
Hello! This is a test
to separate letters,
words, and lines.
```

Rectangular relation with a=30 and b=5 for labeling lines of a text.

```
Hello! This is a test
to separate letters,
words, and lines.
```

Consider now $(p,q) \in A$ if $(x_q - x_p)^2 + (y_q - y_p)^2 \le 100$ and $|I(q) - I(R(p))| \le 100$, where R(p) is the initial pixel of the first path that reached p.



