

Recognition of Polyadenylation Sites from Genomic Arabidopsis Sequences

Chuan Hock KOH
Limsoon WONG

Human Genome Project

- Completed in 2003
- Whats next?
 - Genomes to Life (GTL) Project
 - Understanding the detail mechanism of the cell
 - ENCODE Project
 - Annotating the whole Genome



Research Project

- Phase 1
 - Develop a computational method to analyze (annotate) DNA sequences
- Phase 2
 - Make this method easy to use, especially for biologists with no or little computer expertise

Phase 1

- Develop a 4 step methodology
 1. Feature Generation
 2. Feature Selection
 3. Feature Integration
 4. Cascade Classification
- 18th International Conference on Genome Informatics



1. Feature Generation

- Thickness of Eyebrows, Hair Length, Hair Color, Jaw Line, Eye Color etc

1. Feature Selection

- Reject Hair Length and Hair Color

1. Feature Integration

- Use all selected features to judge

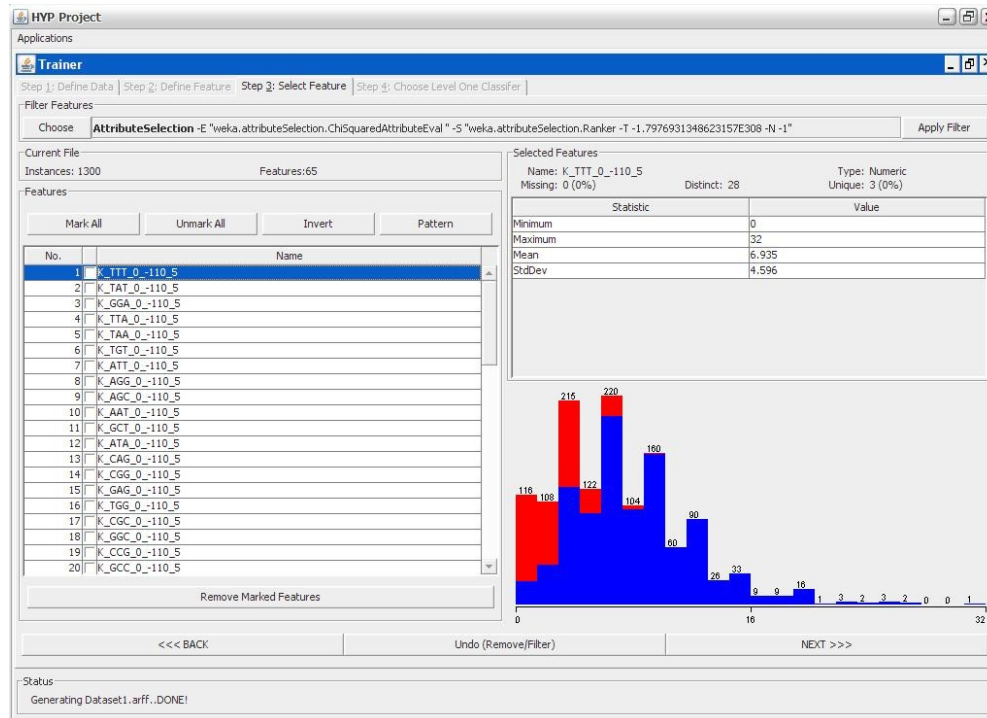




1. Cascade Classifier
 - Looking at its surroundings

Phase 2

- To enable the Method to be deployed with ease
 - Developed a software



Conclusion

- Personal Genome Project
 - Individual genome for < USD 1000
- Develop more efficient ways to store, retrieve and 'crunch' data