

Music Style Analysis Using The Random Forest Algorithm

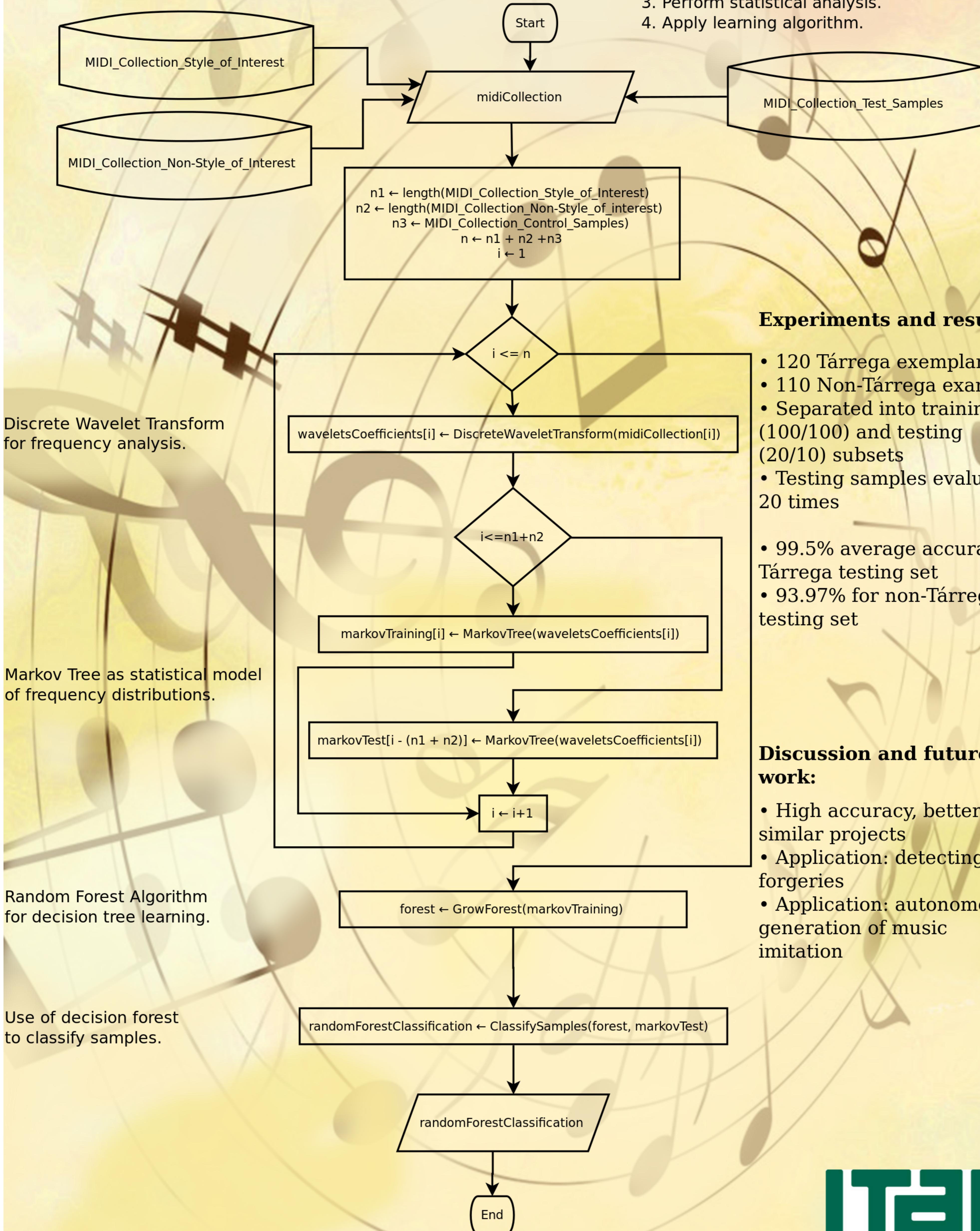
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Objective:
Autonomously learning to distinguish musical style.

Algorithm:

1. Show positive and negative examples.
2. Extract frequency data.
3. Perform statistical analysis.
4. Apply learning algorithm.



Experiments and results:

- 120 Tárrega exemplars
- 110 Non-Tárrega exemplars
- Separated into training (100/100) and testing (20/10) subsets
- Testing samples evaluated 20 times
- 99.5% average accuracy for Tárrega testing set
- 93.97% for non-Tárrega testing set

Discussion and future work:

- High accuracy, better than similar projects
- Application: detecting forgeries
- Application: autonomous generation of music imitation