

10 Intelligent Music Composition

*Maximos A. Kaliakatsos-Papakostas¹,
Andreas Floros² and Michael N. Vrahatis¹*

¹Department of Mathematics, University of Patras, Patras, Greece;

²Department of Audio and Visual Arts, Ionian University, Corfu, Greece

10.1 Introduction

Automatic music composition is an enchanting field of research, inspiring both researchers and musicians. The implementation of systems that perform this task, incorporates an algorithmic part which makes decisions on which notes/sounds will be heard, when they will be heard, for how long and how loud. The intriguing part of automatic composition is the process of formulating such algorithms, in such a manner that the composed music is not too simple or too complex. Referring to the terms “simple” and “complex,” someone may find her/himself sort of words when speaking about music. Nevertheless, almost everyone can more easily express an opinion about the complexity of a certain music excerpt. This fact raises the question of how we may be sure that an automatic composition system composes too simple or too complex music. Additionally, how may we be able to compare the compositional capabilities of two such systems? Is there an objective criterion to characterize how “pleasant” is the music produced by such a machine?

These questions among others have led the research community toward a direction to construct systems that have inherited some kind of *intelligence*, which allows them to construct music with a pleasant blend of simplicity and complexity. Specifically, these machines incorporate an intelligent algorithm, which is commonly able to create mathematical objects that may vary from numeric values to abstract string sequences. The underlying intelligence of these algorithms forges the aforementioned objects in a manner that they either produce present rich and complex structure or comply with certain target characteristics defined by humans. These objects could then simply be mapped to the sonic domain and produce subjectively pleasant music, or adjust the parameters of music composition systems and lead the composition process to certain stylistic and aesthetic directions. This chapter presents several theoretic and technical aspects of such systems and proposes their categorization according to their intelligence and the way that this

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Table of Contents Swarm Intelligence And Bio Inspired Computation 10 Intelligent Music Composition

1. Understanding the eBook Swarm Intelligence And Bio Inspired Computation 10 Intelligent Music Composition
 - The Rise of Digital Reading Swarm Intelligence And Bio Inspired Computation 10 Intelligent Music Composition
 - Advantages of eBooks Over Traditional Books
2. Identifying Swarm Intelligence And Bio Inspired Computation 10 Intelligent Music Composition
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Swarm Intelligence And Bio Inspired Computation 10 Intelligent Music Composition
 - User-Friendly Interface
4. Exploring eBook Recommendations from Swarm Intelligence And Bio Inspired Computation 10 Intelligent Music Composition
 - Personalized Recommendations
 - Swarm Intelligence And Bio Inspired Computation 10 Intelligent Music Composition User Reviews and Ratings

- Swarm Intelligence And Bio Inspired Computation 10 Intelligent Music Composition and Bestseller Lists
- 5. Accessing Swarm Intelligence And Bio Inspired Computation 10 Intelligent Music Composition Free and Paid eBooks
 - Swarm Intelligence And Bio Inspired Computation 10 Intelligent Music Composition Public Domain eBooks
 - Swarm Intelligence And Bio Inspired Computation 10 Intelligent Music Composition eBook Subscription Services
 - Swarm Intelligence And Bio Inspired Computation 10 Intelligent Music Composition Budget-Friendly Options
- 6. Navigating Swarm Intelligence And Bio Inspired Computation 10 Intelligent Music Composition eBook Formats
 - ePub, PDF, MOBI, and More
 - Swarm Intelligence And Bio Inspired Computation 10 Intelligent Music Composition Compatibility with Devices
 - Swarm Intelligence And Bio Inspired Computation 10 Intelligent Music Composition Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Swarm Intelligence And Bio Inspired Computation 10 Intelligent Music Composition
 - Highlighting and Note-Taking Swarm Intelligence And Bio Inspired Computation 10 Intelligent Music Composition
 - Interactive Elements Swarm Intelligence And Bio Inspired Computation 10 Intelligent Music Composition
- 8. Staying Engaged with Swarm Intelligence And Bio Inspired Computation 10 Intelligent Music Composition
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Swarm Intelligence And Bio Inspired Computation 10 Intelligent Music Composition
- 9. Balancing eBooks and Physical Books Swarm Intelligence And Bio Inspired Computation 10 Intelligent Music Composition
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Swarm Intelligence And Bio Inspired Computation 10 Intelligent Music Composition
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Swarm Intelligence And Bio Inspired Computation 10 Intelligent Music Composition

- Setting Reading Goals Swarm Intelligence And Bio Inspired Computation 10 Intelligent Music Composition
- Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Swarm Intelligence And Bio Inspired Computation 10 Intelligent Music Composition
 - Fact-Checking eBook Content of Swarm Intelligence And Bio Inspired Computation 10 Intelligent Music Composition
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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