

- AwesomeTrades-Copier: An Open-Source Hybrid
- <sup>2</sup> Trade Replication Framework for MetaTrader with
- 3 Automated and Manual Execution Modes
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#### Software

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# Summary

This paper introduces AwesomeTrades-Copier, an open-source trade replication system developed using the Laravel framework. The system supports both Expert Advisor (EA)-based trade copying and manual execution, enabling seamless replication across MetaTrader 4 and 5 (MT4/MT5) platforms while ensuring compliance with broker-imposed restrictions on automated trading(EA Coder, 2025). The integration of algorithmic trading enhances risk management and operational safety Oyeniyi et al. (2024), while the Laravel architecture provides robustness and scalability(Laravel Team, 2025).

- EA Mode: High-speed trade replication for unrestricted brokers
- Manual Mode: Human-like trade execution simulation for restricted environments

### Key features include:

- Broker compliance: Configurable latency (300-1500ms) in manual mode
- Cross-platform support: Compatible with MT4 and MT5
- Modular architecture: No external dependencies required

## Statement of Need

#### 21 Problem

- Proprietary trading firms (e.g., The 5%ers, FundedNext, FTMO and Alpha Capital Group) and brokers frequently implement policies that:
- 1. Prohibit EAs in evaluation challenges
  - 2. Prohibit EAs in competition challenges
  - 3. Restrict trade copiers to prevent latency arbitrage
- Existing solutions face limitations when: EA detection leads to account termination Manual replication introduces errors and delays

#### 29 Solution

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- 30 Awesome Trades-Copier addresses these challenges through:
  - 1. Windows UI automation for manual mode execution
    - 2. Direct MQL4/5 integration for EA mode operation
  - 3. Adjustable delay profiles (200-2000ms)
- 34 Performance comparison:



Mode	Average Latency	Detection Risk
EA Mode	8ms	High
Manual Mode	650ms	Low

## **Technical Implementation**

- The AwesomeTrades-Copier is implemented using the Laravel framework and follows a modular
- <sub>37</sub> architecture that separates trade replication logic, broker communication, and user interface
- se components. It supports Expert Advisor (EA)-based copying for automated execution as well
- as manual execution for brokers that restrict automated trades.
- 40 For detailed technical documentation, installation instructions, and usage examples, please refer
- 41 to the project repository on GitHub: https://github.com/masangaeli/awesome-tradescopier

#### 2 Architecture

- The AwesomeTrades-Copier is designed with a modular architecture to support two distinct
- 44 trade replication modes: Expert Mode and Manual Mode. Each mode leverages Laravel's
- 45 robust MVC framework to ensure maintainability, scalability, and secure interaction with
- 46 MetaTrader 4/5 platforms.

# 47 Expert Mode Architecture

- 48 In Expert Mode, the system performs automated trade replication using Expert Advisors (EA).
- 49 Trades from the source account are captured in real-time and transmitted to target accounts
- with minimal latency. The architecture includes modules for trade monitoring, data serialization,
- broker communication, and logging, ensuring fast and reliable execution in brokers that allow
- 52 automated trading.



Figure 1: image info



#### Manual Mode Architecture

- Manual Mode simulates human-like trade execution to comply with brokers that restrict automation. The system introduces configurable latency and randomized execution patterns
- to replicate trades safely. Key modules include trade queue management, execution scheduler,
- <sub>57</sub> and broker interface, all coordinated through Laravel's MVC design to maintain modularity
- 58 and robustness.



Figure 2: image info

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