

ELEMENTE FUNDAMENTALE ÎN EVOLUȚIA ROBOȚILOR DE TRANZACȚIONARE

FUNDAMENTAL ELEMENTS IN THE EVOLUTION OF TRADING ROBOTS

Drd. ing. Daniel Ioan CIUPE
Universitatea Tehnică din Cluj-Napoca

Abstract: In the last two decades, the rise and dominance of trading robots have produced significant transformations in the global financial markets. Driven by the relentless advance of computing and telecommunications technology, the dynamics of trading has fundamentally changed. While the trading volumes, clients, and instruments have increased exponentially, the trading algorithms have become the primary tool for analysis, processing, and execution of orders in the financial markets. This study analyses the conditions, drivers and key stages which advanced the conditions for the trading robots to conquer the global financial markets. The analysis will then focus on the engineering and automation aspects of trading and the fundamental building blocks required for the design, development, testing, and evaluation of a successful trading robot.

Keywords: algorithms, strategies, trading robots, automated systems, trading environments, electronic markets, networks, analysis, design.