Quantitative wealth and investment management $\mathbb{QWIM}$: main topics, subtopics, and corresponding references

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Abstract

A comprehensive list of topics/subtopics/references is provided within context of quantitative wealth and investment management $\mathbb{QWIM}$. The main topics are presented in following table:

Portfolio Optimization	Types of Investment Strategies
Alternative Investments	Empirical analysis: Let data speak
Asset allocation and security selection	Testing investment strategies and portfolios
Equities investment strategies	Fixed income investment strategies
Passive versus active investing	Selection of investment vehicles
Factor models and factor-based investing	Risk premia
Portfolio performance and attribution	Statistics and probability
Programming	Regression
Data Science	Machine learning
Risk analysis of investment portfolios	Selection of investment managers
Stress testing	Generating scenarios
Network analysis and clustering	Estimation and calibration
Numerical optimization	Monte Carlo simulation and wealth projection
Forecasting and prediction	Diversification of investment portfolios
Market regimes and states	Goals-based investing
Investor customized portfolios	Retirement investment portfolios
Behavioral finance and neurofinance	ESG investing
Financial planning	Financial wellness
Quantitative finance for financial derivatives and risk management	Numerical methods and computational performance
Asset Liability Management	FinTech and WealthTech
Robo and hybrid investing	Data visualization
Symbolic regression	Quantum Computing

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