

Tentative Outline (Preliminary Proposal of Thematic Issue)

Special/Thematic Issue for the journal Recent Advances in Computer Science and Communications (RACSC)

Title of the Thematic Issue: Current Advancements about Stock Market using AI Solutions: Challenges and Trends

Guest Editor's Name: Mehdi Gheisari
Affiliation: Islamic Azad University
Email: mehdi.gheisari61@gmail.com

Scope of the Thematic Issue (Brief introduction / abstract explaining the Thematic Issue):

Portfolio selection and portfolio management is one of the main areas of financial decision-making and one of investors' main concerns. The presence of uncontrollable variables has completely affected the decision-making process. Identifying the factors involved in investor decision-making on the one hand, measuring these factors on the other hand, and also how they affect the portfolio selection is a major problem for financial analysts. The issue of stock selection involves creating a stock portfolio that maximizes the investor's desirability so that with the least risk, the highest returns and profits are made.

The method of creating such a portfolio has always occupied the minds of financial researchers and analysts. As a result, financial decision-makers use a variety of approaches to solving their problem in order to obtain an optimal and satisfactory portfolio, such as random control models, discriminant analysis, neural networks, and optimization models. In recent years, non-parametric boundary models such as data envelopment analysis techniques through performance measurement have been introduced as benchmarking and portfolio evaluation models that can be useful in solving the problem mentioned above.

This Special Issue aims to investigate by obtaining current tutorials and research papers about this important challenge by attracting tutorial and research papers that solve the issue using Artificial Intelligence. Potential research directions are fostered for this Special Issue.

Motivated by the above issues, this special section seeks basic research and practical techniques to introduce optimal investment portfolios and, therefore efficient investment companies in order to reassure companies and individuals active in investment markets. Advanced surveys and tutorials are also considered.

Keywords: Artificial Intelligence, Machine learning, Data Envelopment Analysis, Capital Markets, Economic decisions, Information Systems

Sub-topics:

The sub-topics to be covered within the issue should be provided:

- Smart economy management using AI
- Data envelopment analysis and portfolio using AI
- Business Analytics using AI
- Stock Market analysis using AI
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Schedule:

- ✧ Deadline to submit the finalized proposal of Thematic issue: **3 months after subjected approval of preliminary proposal**
("Finalized proposal" would be the same as this document, however the "Tentative titles of the articles and list of contributors with their names, designations, addresses and email addresses" should also be included in the finalized proposal.)
- ✧ Complete Thematic issue submission deadline : 30-08-2022

Details of Guest Editor:

Guest Editor's Name: Mehdi Gheisari
Affiliation: Islamic Azad University
Email: mehdi.gheisari61@gmail.com