



# International

*Innovation in Knowledge Based and Intelligent Engineering Systems*



## INVITED SESSION SUMMARY

<b>Title of Session:</b>	Neural Models for Financial Decision-Making	
<b>Name of Chair:</b>	Hana RABBOUCH Foued SAÂDAOUI	University of Tunis, Tunis, Tunisia King Abdulaziz University, Jeddah, Saudi Arabia
<b>Details of Session:</b>	<p>Financial forecasting is a vital part of business decision-making that uses past financial performance and current conditions or trends to predict future company or market performance. In other words, financial forecasts are a tool by which businesses can set and meet goals. With the rise of machine learning, and more recently the overwhelming interest in deep learning, a new generation of neural forecasting models has come to replace conventional econometric models. Today, neural networks continue to be refined and used in new and exciting ways. This invited session intends to provide an opportunity for researchers to present their recent findings in forecasting neural models and intelligent decision-making with relevant application in business and finance.</p> <p>Topics include, but are not limited to, the following:</p> <ul style="list-style-type: none"><li>• Neuro-autoregressive models in finance</li><li>• Deep neural networks in finance and banking</li><li>• Causality and neural networks in complex financial datasets</li><li>• Multiscaled models in finance</li><li>• Capital asset pricing model and neural networks</li><li>• Neural models and energy markets</li><li>• Neural network for credit risk management</li><li>• Liquidity risk modelling using neural networks</li><li>• Machine learning algorithms in financial analysis</li><li>• Neural networks for cryptocurrencies prediction</li><li>• Bankruptcy prediction using neural networks</li><li>• Decision-making with uncertainty and data mining</li></ul> <p>The invited session papers should be prepared in Springer style and must be submitted electronically via the KES-IDT 2022 conference web page (follow the KES-IDT 2022 guidelines for more information on paper submission).</p> <p><b>Proceedings:</b></p> <p>The Full Papers conference proceedings will be published by Springer as book chapters in a volume of</p>	

the KES Smart Innovation Systems and Technologies series, submitted for indexing in Scopus and Thomson-Reuters Conference Proceedings Citation Index (CPCI) and the Web of Science. (The Short Papers and Abstracts conference proceedings will be published online and will not appear in the Springer volume).

**Important dates:**

- Paper submission: ~~31 January 2022.~~ **24 February 2022**
- Notification of acceptance: ~~21 February 2022.~~ **28 February 2022**
- Camera-ready papers submission: 4 March 2022.
- Conference: 20 – 22 June 2022.

**Website URL (if any):**

[http://www.ihesco.rnu.tn/fra/profil/Foued\\_Saadaoui](http://www.ihesco.rnu.tn/fra/profil/Foued_Saadaoui)

**Email & Contact Details:**

Dr Hana Rabbouch:

[hana.rabbouch@gmail.com](mailto:hana.rabbouch@gmail.com)

University of Tunis, Institut  
Supérieur de Gestion de Tunis,  
Tunisia

Prof. Foued Saâdaoui:

[foued.saadaoui@isgs.rnu.tn](mailto:foued.saadaoui@isgs.rnu.tn)

Department of Statistics, King  
Abdulaziz University, Jeddah, Saudi  
Arabia