

### **Call for Papers**

#### **Special Issue on Unsupervised Learning for Cloud Computing & Big Data Automation**

Cloud computing can be referred to be a sector that is experiencing phenomenal growth in the future, one in which all industrial and medical sectors are eagerly awaiting the next stage of development in this field module. This will enable all humanoid works to be atomized through fundamental medical advancements that converge with the industrial sectors. Reduced expenses, better efficiency, accuracy, and consistency, higher output quality, and scalability are just a few of the typical advantages of cloud automation. Cloud scale automation may also offer additional security, particularly for financial services and sensitive data. The concept has been around for a while in the form of screen scraping, which can be linked to the origins of early malware. However, RPA is much more adaptable, allowing for the integration of APIs into other business applications, interfaces to ITSM systems, network services, and even specific AI services (such picture recognition using machine learning, for example). This is regarded as a significant technological advancement in the sense that contemporary, more advanced Cloud ware technologies are developing, making this method robust, scalable, and secure, making it feasible for use in large enterprises (which would otherwise be reluctant due to perceived quality and credibility risks).

We may combine the Big data manuscript to make the automation more effective and use it to improve the significance and appropriate quality of the robotic system. Data gathering, data storage, data processing, scanning, sharing, uploading, visualizing, querying, updating, privacy, and source data are just a few of the large data concerns. Quantity, diversity, and speed were the three major principles of big data at first. When working with large data, we are only able to observe and keep track of what is happening. Big data also includes data that is too large for traditional cloud ware to process in a fair amount of time and money. The term "big data" is now frequently used to describe the application of advanced data analytics techniques to extract meaning from data, rather than to describe a specific amount of data. The researchers can start a fresh strategy in the field of cloud computing with the enhanced version of unsupervised learning using this special issue as an appropriate platform for the generation of novel ideas.

This special issue seeks to bring forward and highlight the challenges in computing applications to implement the Cloud intelligent processing on the required theme through in-depth efficiency, which would help for the smart enhancement in many applications used for human welfare with the basic support of Unsupervised Learning. Topics include, but are not limited to:

- Data Capturing and Data storing in Computing Devices
- Computational paradigms and computational complexity in Automation
- Cloud Programming and Scripting Languages
- Sub structural logic in image programming
- Probability logic, belief functions
- Computer networks and image, video processing
- Cloud Data mining and robot intelligence
- Cloud Intelligence agents and robotics

- Machine learning and pattern recognition
- Tools for Performance Evaluation, Compilation, and Debugging
- Custom Computing Architectures (Heterogeneous, Multi-core, Reconfigurable)
- Graphical user interfaces with statistical power
- Big Data based Cloud Programming
- Algorithm based Computing
- Cloud Computing and Unsupervised Applications

### **Important Dates:**

Submission deadline: 20 October 2023  
First round of revision: 20 December 2023  
Revised version submission: 10 February 2024  
Final Decision: 31 March 2024

The correspondence with ROMJIST including the paper submission will be carried out using the address [romjist@nano-link.net](mailto:romjist@nano-link.net) respecting the instructions for authors specific to ROMJIST posted at <https://www.romjist.ro/info-for-authors.html>

### **Guest Editors:**

Dr. B. Nagaraj (Managing Guest Editor)  
Rathinam Group of Institutions, Coimbatore, Tamilnadu, India  
[dean.sa@rathinam.in](mailto:dean.sa@rathinam.in)

Dr. Danilo Pelusi  
Department of Communication Engineering, University of Teramo, Italy  
[dpelusi@unite.it](mailto:dpelusi@unite.it)

Prof. Raffaele Mascella  
Department of Communication Engineering, University of Teramo, Italy  
[rmascella@unite.it](mailto:rmascella@unite.it)

### **Editors Bio:**

Prof. B. Nagaraj is working as a Professor and Dean in Rathinam Group of Institutions, Coimbatore, India. He received his M.E. and PhD degrees from Anna University, and Karpagam University in 2004 and 2010, respectively. In 2005 he joined a Lecturer in Kamaraj College of Engineering, India and he worked there for 12 years (till May 15<sup>th</sup>, 2013) in various positions. His technical expertise and research interests include a control system, Automation, soft computing, and high-speed signal processing. He received Best Researcher Award from Karunya University for the best research paper in the year 2010. He is the author or co-author of more than 48 refereed publications in journals and conferences. He applied for five patents and is published in Indian Patent Journal. He is a member of various professional bodies like IEEE, MAENG, IACSIT, ISTE, and IETE. He is a reviewer for different reputed journals in Elsevier, Wiley, Inderscience, etc., and he has been the guest editor for a few special issues in Elsevier, Inderscience, Springer, etc.

Prof. Danilo Pelusi, received the Ph.D. degree in computational astrophysics from the University of Teramo, Italy, where he is currently an Associate Professor with the Faculty of Communication Sciences. His research interests include fuzzy logic, neural networks, information theory, evolutionary algorithms, and machine learning. He has served as a program member of many conferences and as an Editorial Board Member of many journals. He is also an associate editor of IEEE Transactions on Emerging Topics in Computational Intelligence, IEEE Access, the International Journal of Machine Learning and Cybernetics (Springer), and Array (Elsevier). He is also a guest editor for Elsevier, Springer, and Inderscience journals. He is also a reviewer of reputed journals, such as IEEE Transactions on Fuzzy Systems and IEEE Transactions on Neural Networks and Learning Systems.

Prof. Raffaele Mascella, is Associate Professor of Faculty of Communication Sciences and President of the Master's Degree Course in Business Management and Communication at the Faculty of Communication Sciences of the University of Teramo, where he teaches Logic and Theory of Argumentation and Logic and Decision Making. In 1995 he obtained his doctorate in Epistemology and Didactics of Mathematics (Thesis title: Applications and epistemological issues in computer science). He was a coordinator of masters and training courses, member of the College of the Doctorate in Epistemology of Informatics and Social Changes (University of Teramo). He deals with the philosophy of mathematics, information and computation, fuzzy logic and code theory.