CORRECTION

Correction To: Editorial

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Unfortunately, the Editorial has been published with some incorrect data.

The correct information is provided below:

In this grave situation of pandemic that has hit the entire globe; we all stand one for saving humanity. BJIT remains committed to delivering on its challenge of consistently showcasing and disseminating novel researches pertaining to computing applications and capable of altering the quality of human life. It is a matter of great privilege for me to unveil before you the thirty one issue i.e. Volume 12 Number 03 of the “International Journal of Information Technology” [An official Journal of Bharati Vidyapeeth's Institute of Computer Applications and Management (BVICAM), New Delhi] with acronym BJIT. The issue is live on the Springer content platform SpringerLink and available to the prospective readers through Springer CS package globally.

Throughout the world, nations have started recognizing that Information Technology (IT) is now acting as a catalyst in speeding up the economic activities in efficient governance, citizens' empowerment, sustainable development and in improving the quality of human life. Recent advancements in IT have touched almost every conceivable

area of human life. Its degree of pervasiveness, in day to day life, is rapidly increasing, every new day. On the backdrop of this, BJIT has accepted the challenge to consistently showcase, disseminate and institutionalize the rapidly changing huge knowledgebase globally, with authenticity and accuracy, having special focus on the new researches pertaining to IT applications for improving the quality of day to day life.

Volume 12 Number 03 presents a compilation of thirty eight papers, chosen out of over 400 manuscripts, that span a broad variety of topics from various emerging areas of Information Technology and Computer Science, especially addressing current research problems related to Deep Learning, COVID-19, Neural Networks, IoT, Data Mining, Augmented Reality and Mobile Networks to name a few.

The current technology driven lifestyle is nothing but an application of Internet of Things. The first manuscript in this issue “Energy-Performance Management in Battery Powered Reconfigurable Processors for Standalone IoT Systems”, Ahmedreza Motaqi proposes optimal energy management framework for Battery Powered Reconfigurable Processors of Standalone IoT systems. Data is everywhere, and the current world is creating more of it each day. The second manuscript “Multi-Dimensional Aggregation: A Viable Solution for interval Data”, Shailender Kumar propositions a multi-dimensional aggregation based solution for interval data. Software faults may propagate into being costly as well as grave failures. The next manuscript “Effective Spectrum based Technique for Software Fault Finding”, Debolina Ghosh et. al. outlines a spectrum based framework for software

The original article can be found online at <https://doi.org/10.1007/s41870-020-00504-x>.

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fault identification. Optimizing data mining techniques is valuable to smart decision making. The manuscript “A Novel Technique: Ensemble Hybrid INN Model using Stacking Approach”, Preeti Nair et. al. implements a novel hybrid INN model for better data classification. PID controller optimization has been found to improve router bandwidth demand. The manuscript “PID Controller Optimized by Big Bang-Big Crunch Algorithm for the Evolution of Router Bandwidth Demand”, Iordanis Gianopoulos et. al. intends PID controller optimization through the Big Bang-Big Crunch algorithm. Secure usage of IoT resources is important to ensure optimal usage. The manuscript “TCpC: A Graphical Password Scheme Ensuring Authentication for IoT Resources”, Priya Matta et. al. designs a novel scheme for authenticating IoT resources. Data Security is an important component in the new digital age. The next manuscript “Interaction of Children with an Augmented Reality Smartphone App”, Savita Yadav et.al. advises a novel augmented reality enabled smart phone app for children with disabilities. Common languages of human communication have been successfully automated; however there still remain many under-resourced ones which do not have much computational support available. The manuscript “Using Machine Learning to build POS Tagger for Under Resourced Language—The Case of Somali”, Mohammad Siraj et. al. proposes a machine learning based POS tagger for the Somali language. Early identification of COVID-19 may help in its complete cure. The manuscript “Machine Learning based Approaches for Detecting COVID-19 using Clinical Text Data”, Akib Ud-Din Khanday et. al. presents a novel approach for COVID-19 identification through clinical data. The manuscript “Parts of Speech Tagging for Malayalam using Deep Learning Techniques”, V. Anoop et. al. suggests a new scheme for speech tagging of Malayalam through Deep Learning. The manuscript “Application of hybrid Clustering Methods for Student Performance Evaluation”, Ramjeet Singh Yadav defines a clustering model for student performance evaluation. In today’s scenario, the internet has become an indispensable mode of communication as well as data dissemination. The manuscript “Tailored Feed Forward Artificial Neural Network based Link Prediction”, Sandhya et. al. propagates link prediction through an artificial neural network. In recent times with improvement and availability of better technologies, healthcare services have also improved. The manuscript “Measuring Impact of Healthcare Information Systems in Administration and Operational Management”, Mohammad Yamin captures the impact of healthcare information systems in operational management. The manuscript “Design of Ultra-High Sensitive Biosensor to Detect E. Coli in Water”, Sandip Roy et. al. offers effective tool for E.Coli detection in water. The manuscript “Prevention of Session Hijacking using

Token and Session ID Reset Approach”, Meenakshi M. et. al. details a novel approach for prevention of session hijacking. Customer emotions and feelings drive the success or failure of a business. The manuscript “Swaying between Qualitative Information and Customer’s Expectation: An Assessment of Online Shopping Sites in India”, Nikita Sharma et. al. evaluates the online shopping sites from the point of view of customer expectations. The manuscript “An Improved Weighted Decision Tree Approach for Breast Cancer Prediction”, Kapil Juneja et. al. details a weighted decision tree approach to achieve more accurate diagnoses of breast cancer. Network Traffic is an important component for ensuring uninterrupted speed. The manuscript “Performance Analysis of Network Traffic Capture Tools and Machine Learning Algorithms for the Classification of Algorithms, States and Anomalies”, Tulsi Fowdur et. al. evaluates network traffic capture tools and algorithms. The manuscript “A Novel Method of Improvement in Advanced Encryption Standard Algorithm with Dynamic Shift Rows, Sub Byte and Mixcolumn Operations for the Secure Communication”, Manoj Kumar T. et. al. suggests and evaluates advanced encryption standard algorithm for secure communication. Cloud Storage is the new cost-effective data storage solution. The manuscript, “Auto Encryption Algorithm for Uploading Data on Cloud Storage”, Mohammad Tajamul et. al. introduces a novel auto encryption algorithm for data on cloud storage. In present times to enable better rain sensing, cloud computing is also offering plausible solutions. The manuscript, “Real Time Rain Sensing and Wind Shield Wiper Control System with Cloud Computing and Geotagging Applications”, Raghavendra Kanchi et. al. presents a real time rain sensing and wind shield wiper control application. The manuscript, “Performance Improvement of Intrusion Detection System using Neural Networks and Particle Swarm Optimization Algorithms”, Shokoohsaljooghi Ahmad et. al. computes performance improvement of intrusion detection system through neural networks. Blockchain technology has been successfully applied to numerous domains. The manuscript, “Blockchain Technology for Electoral Process in Africa: A Review”, Mahtab Alam et. al. analyzes the implementation of Blockchain technology for fair electoral process in Africa. The next manuscript, “Fine Grained Entity Type Classification using GRU with Self-Attention”, Dhriya Chandran et. al. extends the fine grained entity type classification mechanism through GRU. The manuscript, “Escalate the Efficacy of Breast Tumor Detection through Magnetic Resonance Imaging: A Framework”, Poonam Jaglan et. al. proposes an improved framework for breast tumour detection. The manuscript, “A Method for Video Categorization by Analyzing Text, Audio and Frames”, Hossain Md. Al Amin et. al. presents the design of a novel

mechanism of video categorization. Bias Correction is vital to accurate prediction. The manuscript, “Performance Analysis of Bias Correction Techniques in Brain MR Images”, A. Farzana et. al. details an analysis of Bias correction techniques in Brain MR Images. The manuscript, “Information Need Assessment of Health Care Workers in Large Hospitals of Delhi: An Empirical Study”, Babita Kataria et. al. offers an assessment of information needs of health care workers for large hospitals in Delhi. The manuscript, “WBTC: A New Approach for Efficient Storage of Genomic Data”, Sanjeev Kumar et. al. details a novel mechanism for efficient storage of genomic data. The manuscript, “Data Warehousing for Open Sharing and Decision Support in Agriculture: A Case Study of the VDSA Knowledge Bank and its Development Process”, G. Anupama et. al. applies data warehousing to agricultural decision support. The manuscript, “Assessing e-Service Quality of B2C sites: A Proposed Framework”, Shakeel Iqbal et. al. details a novel mechanism for assessing e-Service quality of B2C sites. The next manuscript, “Design of Skin Implantable Radiator with Capacitive and CSRR Loadings for ISM Band Applications”, Sarita Ahlawat et. al. puts forward a skin implantable radiator design for ISM Band applications. The manuscript, “Review of ICT Usage in Disaster Management”, Pooja Mohan et. al. deals with effective ICT usage during disaster management. The manuscript, “Performance Overview of an Artificial Intelligence in Biomedics: A Systematic Approach”, Shashikant Patil et. al. identifies the contribution of artificial intelligence in biomedics. The increasing rate of network connectivity is driving us towards an era of complete wireless sensor networks. The manuscript, “Study of Range Free Centroid Based Localization Algorithm and its Improvement using Particle Swarm Optimization for Wireless Sensor Networks under Log Normal Shadowing”, Vikas Gupta et. al. details the improvements in wireless sensor networks under log normal shadowing. The manuscript, “Heterogeneous Ensemble Learning Method for Personalized Semantic Web Service Recommendation”, S. Sagayaraj et. al. introduces a novel method for personalized web service recommendation. Deep learning has important applications in almost all fields of human endeavour. The manuscript, “An Extensive Survey on Traditional and Deep Learning Based Face Sketch Synthesis Models”, Narasimhula Balayesu et. al. provides a detailed analysis of deep learning based face sketch synthesis models. The last manuscript, “A Novel

Feature based Indexing Algorithm for Brain Tumor MR-Images”, Ravindra K. Purwar et. al. proposes a feature-based indexing algorithm for brain tumor MR-Images.

I am sure the contributions in this issue, which is an amalgamation of novel trends and technologies to improve our life and sustainability in the present environment, will not only enrich our reader’s knowledgebase but will also motivate many of the potential researchers to take up these challenging application areas and contribute effectively for the overall prosperity of the mankind.

As a matter of policy, all the manuscripts received and considered for the Journal, are double blind peer reviewed by at-least two independent referees. Our panel of expert referees posses a sound academic background and have a rich publication record in various prestigious journals representing Universities, Research Laboratories and other Institutions of repute, globally. Finalizing the constitution of the panel of referees, for double blind peer review(s) of the considered manuscripts, was a painstaking process, but it helped us to ensure that only the best, interesting and novel of the considered manuscripts are showcased and that too after undergoing multiple cycles of review, as required.

I wish to express my sincere gratitude to the entire editorial board, members of the resident editorial team and our panel of experts in steering the considered manuscripts through multiple cycles of review and bringing out the best from the contributing authors. I thank my esteemed authors for having shown confidence in BJIT and considering it a platform to showcase and share their original research work. I would also wish to thank the authors whose papers could not have been published in this issue of the Journal, probably because of the minor shortcomings. However, I would like to encourage them to actively contribute for the forthcoming issues.

I will fail in my duty, if I do not thank the members of the team from the Springer, particularly Ms. Suvira Srivastav, Mr. Madan Ellappan, Ms. Deepika Sureshkumar and Ms. Nidhi Chandok from Springer for their constant support in realizing the issue and presenting it before you.

The undertaken Quality Assurance Process involved a series of well defined activities that, I trust, went a long way in ensuring the quality of the publication. Still, there is always a scope for improvement, and so, I request the contributors and readers to kindly mail me their criticism, suggestions and feedback at bjit@bvicam.ac.in and help in further enhancing the quality of forthcoming issues.