

Big Data challenges and analytical methods

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Abstract- a big data generation has been increased just a few years ago. data management has grown and this is necessary for decision making, Its considered as advanced technology over recent years. big data is used in many applications that has been developed and become increasing every day such as banking, agriculture, chemistry, and marketing. big data analytics becoming growing, in order to build valuable information from big data. there are a lot of benefits that big data presents for organizations and its management, so an enormous organizations depends on big data its get to be known globally . technological development is necessary for data classification and making it easy to use . if you want to understand big data about any field you should study and work hard, it's the first step you have to do to get a large amount of data about any field. big data is known as a powerful tool that makes things easy in various fields. organizations use big data as a tool to improve the efficiency of the work. big data is always renewed and constantly increasing. As a result, we see the big data are having a great impact in our life.

key words: Big data, Big Data definition, Big data Analytics, Applications and Methods

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REFERENCES

- Ahmed, Ali, Abdelhameed Ibrahim, and Sherif Hussein. "Detection of palm tree pests using thermal imaging: A review." *Machine Learning Paradigms: Theory and Application* (2019): 253-270.
- Guan, Bo, Dawen Xu, and Qian Li. "An efficient commutative encryption and data hiding scheme for HEVC video." *IEEE Access* 8 (2020): 60232-60245.
- Ibrahim, Abdelhameed, and El-Sayed M. El-kenawy. "Image Segmentation Methods Based on Superpixel Techniques: A Survey." *Journal of Computer Science and Information Systems* 15, no. 3 (2020).
- Ibrahim, Abdelhameed, and El-Sayed M. El-kenawy. "Applications and Datasets for Superpixel Techniques: A Survey." *Journal of Computer Science and Information Systems* 15, no. 3 (2020).
- Eid, Marwa M., El-Sayed M. El-kenawy, and Abdelhameed Ibrahim. "An Advanced Patient Health Monitoring System." *Journal of Computer Science and Information Systems* 17, no. 11 (2021).
- El-kenawy, El-Sayed M., Marwa M. Eid, and Abdelhameed Ibrahim. "Anemia Estimation for COVID-19 Patients Using A Machine Learning Model." *Journal of Computer Science and Information Systems* 17, no. 11 (2021).
- El-kenawy, El-Sayed M., Marwa M. Eid, and Abdelhameed Ibrahim. "Automatic Identification from Noisy Microscopic Images." *Journal of Computer Science and Information Systems* 17, no. 11 (2021).
- El-Kenawy, E. S. M. T., El-Desoky, A. I., & Sarhan, A. M. (2014). A bidder strategy system for online auctions trust measurement. *International Journal of Strategic Information Technology and Applications (IJSITA)*, 5(3), 37-47.
- Hassib, E. M., El-Desouky, A. I., Labib, L. M., & El-kenawy, E. S. M. (2019). WOA+ BRNN: An imbalanced big data classification framework using Whale optimization and deep neural network. *Soft Computing*, 1-20.
- El-kenawy, E. S. M., El-Desoky, A. I., & Al-rahaway, M. F. (2012). Distributing Graphic Rendering using Grid Computing with Load Balancing. *International Journal of Computer Applications*, 975, 888.
- El-kenawy, E. S. M. T. (2019). A Machine Learning Model for Hemoglobin Estimation and Anemia Classification. *International Journal of Computer Science and Information Security (IJCSIS)*, 17(2).
- H. Hassan, A. I. El-Desouky, A. Ibrahim, E. M. El-kenawy and R. Arnous, (2020) "Enhanced QoS-based Model for Trust Assessment in Cloud Computing Environment," in *IEEE Access*. doi: 10.1109/ACCESS.2020.2978452
- El-Knawy, E. S. M. T., & El-Desoky, A. I. (2016). TRUST MEASUREMENT FOR ONLINE AUCTIONS: PROPOSAL OF NEW MODEL. *INTERNATIONAL JOURNAL OF INNOVATIVE COMPUTING INFORMATION AND CONTROL*, 12(2), 385-394.
- El-sayed, M., El-Desoky, A. I., & Sarhan, A. M. (2014). A bidder behavior learning intelligent system for trust measurement. *International Journal of Computer Applications*, 89(8).
- Arnous, R., & El-Sayed Towfek, M. (2019). El-kenawy and M Saber. A Proposed Routing Protocol for Mobile Ad Hoc Networks. *International Journal of Computer Applications*, 178(41), 26-30.

- El-Sayed Towfek M El-kenawy. Trust Model for Dependable File Exchange in Cloud Computing. *International Journal of Computer Applications* 180(49):22-27, June 2018.
- El-Sayed Towfek M El-kenawy, M Saber and Reham Arnous. An Integrated Framework to Ensure Information Security Over the Internet. *International Journal of Computer Applications* 178(29):13-15, July 2019
- El-kenawy, E. S. M. T. (2018). Solar Radiation Machine Learning Production Depend on Training Neural Networks with Ant Colony Optimization Algorithms. *IJARCCCE*, 7(5). doi: DOI10.17148/IJARCCCE.2018.751
- E. M. El-Kenawy, M. M. Eid, M. Saber and A. Ibrahim, "MbGWO-SFS: Modified Binary Grey Wolf Optimizer Based on Stochastic Fractal Search for Feature Selection," in *IEEE Access*, vol. 8, pp. 107635-107649, 2020, doi: 10.1109/ACCESS.2020.3001151.
- E.-S. El-Kenawy and M. Eid, "Hybrid gray wolf and particle swarm optimization for feature selection," *INTERNATIONAL JOURNAL OF INNOVATIVE COMPUTING INFORMATION AND CONTROL*, vol. 16, no. 3, pp. 831–844, 2020.
- El-Kenawy, E. S. M., Eid, M., & Ismail, A. H. A New Model for Measuring Customer Utility Trust in Online Auctions. *International Journal of Computer Applications*, 975, 8887.
- E. M. El-Kenawy and M. Saber , "Design and implementation of accurate frequency estimator depend on deep learning" *International Journal of Engineering & Technology (IJET)*, vol. 9 , Issue 2, PP. 367-377 , 2020 , DOI: 10.14419/ijet.v9i2.30473
- El-kenawy, E. S. T., El-Desoky, A. I., & Al-rahamawy, M. F. (2012). Extended max-min scheduling using petri net and load balancing. *Int. J. Soft Comput. Eng.(IJSCE)*, 2(4), 198-203.
- Hussien, Hussien Rezk, El-Sayed M. El-Kenawy, and Ali I. El-Desouky. "EEG Channel Selection Using A Modified Grey Wolf Optimizer." *European Journal of Electrical Engineering and Computer Science* 5, no. 1 (2021): 17-24.
- Ibrahim, Abdelhameed, and A. Tharwat. "Biometric authentication methods based on ear and finger knuckle images." *International Journal of Computer Science Issues (IJCSI)* 11, no. 3 (2014): 134.
- Ibrahim, Abdelhameed, Tarek Gaber, Takahiko Horiuchi, Vaclav Snasel, and Aboul Ella Hassanien. "Human thermal face extraction based on superpixel technique." In *The 1st International Conference on Advanced Intelligent System and Informatics (AIS2015)*, November 28-30, 2015, Beni Suef, Egypt, pp. 163-172. Springer, Cham, 2016.
- Ibrahim, Abdelhameed, Mostafa Noshay, Hesham Arafat Ali, and Mahmoud Badawy. "PAPSO: A power-aware VM placement technique based on particle swarm optimization." *IEEE Access* 8 (2020): 81747-81764.
- Ibrahim, Abdelhameed, Takahiko Horiuchi, and Shoji Tominaga. "Illumination-invariant representation for natural color images and its application." In *2012 IEEE Southwest Symposium on Image Analysis and Interpretation*, pp. 157-160. IEEE, 2012.
- Saber, Mohamed, and Marwa M. Eid. "Low power pseudo-random number generator based on lemniscate chaotic map." *International Journal of Electrical & Computer Engineering* (2088-8708) 11, no. 1 (2021).
- Eid, Marwa M., and Yasser H. Elawady. "Efficient Pneumonia Detection for Chest Radiography Using ResNet-Based SVM." *European Journal of Electrical Engineering and Computer Science* 5, no. 1 (2021): 1-8.
- Khadija Shazly, Marwa Eid and Hanaa Salem. An Efficient Hybrid Approach for Twitter Sentiment Analysis based on Bidirectional Recurrent Neural Networks. *International Journal of Computer Applications* 175(17):32-36, September 2020