

Curriculum Vitae

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- PHD Degree of Communication Engineering and Computer Science, Department of Electrical Engineering, Faculty of Engineering, Benha University, 2018.
- Master Degree of Electronics and Electrical communication Engineering, Faculty of Electronic Engineering, Menoufia university, 2014.
- Bachelor of Electronics and Electrical communication, Faculty of Engineering, Tanta University, May 2009.

PUBLICATIONS:

- [1] **Elhoseny, H.M.**, Faragallah, O.S., El-Sayed, H.S. “Efficient COVID-19 super pixel segmentation algorithm using MCFO-based SLIC.” *Journal of Ambient Intelligence and Humanized Computing* (2022). **(Impact Factor 3.662)**
- [2] **Elhoseny, H.M.**, El-Shafai, W., El-Rahman, W.A., El-sayed, H.S., El-Rabaie, E.M., El-Samie, F.E., & Geweid, G.G. (2021). A Comprehensive Survey Analysis for Present Solutions of Medical Image Fusion and Future Directions. *IEEE Access*, 9, 11358-11371. **(Impact Factor 3.745)**
- [3] **Elhoseny, H.M.**, et. Al, “Utilization of Image Interpolation and Fusion in Brain Tumor Segmentation”, *International journal of Numerical methods in biomedical engineering*, 2021. **(Impact Factor 2.648)**
- [4] **Elhoseny, H.M.**, Ahmed, H.H., Kazemian, H.B., & El-Samie, F.E. (2014). Image Encryption Using Development of 1D Chaotic Maps. *Digital Image Processing*, 6, 118-126. **(Impact Factor 3.977)**
- [5] **Elhoseny, H.M.**, Faragallah, O.S., El-Shafai, W., Afifi, A., Elashry, I.F., Alzain, M.A., Al-Amri, J.F., & El-Samie, F.E. (2021). Efficient Three-Dimensional Video Cybersecurity Framework Based on Double Random Phase Encoding. *Intelligent Automation & Soft Computing*. **(Impact Factor 1.647)**
- [6] **Elhoseny, H.M.**, Faragallah, O.S., Faragallah, O.S., Ahmed, H.E., Kazemian, H.B., El-sayed, H.S., & El-Samie, F.E. (2016). The effect of Fractional Fourier transform angle in encryption quality for digital images. *Optik*, 127, 315-319. **(Impact Factor 2.187)**
- [7] **Elhoseny, H.M.**, Ahmed, H.H., Abbas, A.M., Kazemian, H.B., Faragallah, O.S., El-Rabaie, S., & El-Samie, F.E. (2012). Chaotic encryption of images in the fractional

Fourier transform domain using different modes of operation. *Signal, Image and Video Processing*, 9, 611-622. **(Impact Factor 1.794)**

- [8] **Elhoseny, H.M.**, El-Hag, N.A., Sedik, A., El-Shafai, W., Khalaf, A.A., El-Fishawy, A.S., Al-Nuaimy, W., Abd El-Samie, F.E., & El-Banby, G.M. (2020). Classification of retinal images based on convolutional neural network. *Microscopy Research and Technique*, 84, 394 - 414. **(Impact Factor 2.117)**
- [9] **Elhoseny, H.M.**, Faragallah, O.S., Afifi, A., Elashry, I.F., Naeem, E.A., El-sayed, H.S., & Abbas, A.M. (2021). Efficient optical double image cryptosystem using chaotic mapping-based Fresnel transform. *Optical and Quantum Electronics*, 53, 1-26. **(Impact Factor 1.842)**
- [10] **Elhoseny, H.M.**, El-Hag, N.A., Sedik, A., El-Banby, G.M., El-Shafai, W., Khalaf, A.A., Al-Nuaimy, W., & Abd El-Samie, F.E. (2021). Utilization of Image Interpolation and Fusion in Brain Tumor Segmentation. *International journal for numerical methods in biomedical engineering*. **(Impact Factor 2.747)**
- [11] **Elhoseny, H.M.**, El-Rahman, W.A., El-Rabaie, E.M., El-Samie, F.E., Faragallah, O.S., & Faragallah, O.S. (2018). An efficient DT-CWT medical image fusion system based on modified central force optimization and histogram matching. *Infrared Physics & Technology*, 94, 223-231. **(Impact Factor 2.638)**
- [12] **Elhoseny, H.M.**, Kareh, Z.Z., Mohamed, W.A., Banby, G.M., Mahmoud, K.R., Faragallah, O.S., El-Rabaie, S., El-Madbouly, E.I., & El-Samie, F.E. (2019). An optimal wavelet-based multi-modality medical image fusion approach based on modified central force optimization and histogram matching. *Multimedia Tools and Applications*, 1-25. **(Impact Factor 2.313)**
- [13] **Elhoseny, H.M.**, El-Rahman, W.A., Geweid, G.G., El-sayed, H.S., El-Shafai, W., El-Rabaie, E.M., El-Samie, F.E., Faragallah, O.S., & Mahmoud, K.R. (2022) Optimized multimodal medical image fusion framework using multi-scale geometric and multi-resolution geometric analysis. *Multimedia Tools and Applications*. **(Impact Factor 2.313)**
- [14] **Elhoseny, H.M.**, El-Rahman, W.A., El-Shafai, W., El-Banby, G.M., El-Rabaie, E.M., El-Samie, F.E., Faragallah, O.S., Faragallah, O.S., & Mahmoud, K.R. (2019). Efficient multi-scale non-sub-sampled shearlet fusion system based on modified central force optimization and contrast enhancement. *Infrared Physics & Technology*. **(Impact Factor 2.638)**
- [15] **Elhoseny, H.M.**, Mohamed, W.A., Mahmoud, K.R., Faragallah, O.S., Rabaie, S.E., & El-Samie, F.E. (2018). Optimal multi-scale geometric fusion based on non-sub-sampled contourlet transform and modified central force optimization. *International Journal of Imaging Systems and Technology-Wiley*. **(Impact Factor 2)**
- [16] **Elhoseny, H.M.**, S. Faragallah, O., S. Alshamrani, S., H., A. Alzain, M., Sami Jaha, E., & S. El-sayed, H. (2022). Utilization of Deep Learning-Based Crowd Analysis for Safety Surveillance and Spread Control of COVID-19 Pandemic. *Intelligent Automation & Soft Computing*. **(Impact Factor 1.647)**

- [17] **Elhoseny, H.M.**, Baz, M., Zaini, H., S. El-sayed, H., Abualnaja, M.M., H., & S. Faragallah, O. (2021). Utilization of Artificial Intelligence in Medical Image Analysis for COVID-19 Patients Detection. *Intelligent Automation & Soft Computing*. (**Impact Factor 1.647**)
- [18] **Elhoseny, H.M.**, El-Rabaie, E.M., Elrahman, W.A., & El-Samie, F.E. (2017). Medical image fusion techniques based on combined discrete transform domains. *2017 34th National Radio Science Conference (NRSC)*, 471-480. (**Impact Factor 1.431**)
- [19] **Elhoseny, H.M.**, El-rahman, W.A., Shafai, W.E., El-rabaie, S., Mahmoud, K.R., El-Samie, F.E., & Faragallah, O.S. (2017). Optimal multi-scale geometrie fusion based on non-sub-sampled contourlet transform and modified central force optimization. *2017 japan-africa conference on electronics, communications and computers (JAC-ECC)*, 49-52. (H-index: 3)