**الاسم على الكوكل سكولر**

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| **Sadiq H. Abdulhussain** |

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| ▼ الاتجاهات البحثية Computer Vision, Pattern Recognition, Signal Processing, Steganography, and Machine Learning |

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| ▼ الدرجة العلمية استاذ مساعد دكتور |
| ▼ الكتب والمؤلفات **Journal Publications**   * A. M. Abdul-Hadi, S. H. Abdulhussain, and B. M. Mahmmod, “On the computational aspects of Charlier polynomials,” Cogent Eng., vol. 7, no. 1, Jan. 2020. * S. H. Abdulhussain, S. A. R. Al-Haddad, M. I. Saripan, B. M. Mahmmod, and A. Hussien, “Fast Temporal Video Segmentation Based on Krawtchouk-Tchebichef Moments,” IEEE Access, vol. 8, pp. 72347–72359, 2020. * Z. N. Idan, S. H. Abdulhussain, and S. A. R. Al-Haddad, “A New Separable Moments Based on Tchebichef-Krawtchouk Polynomials,” IEEE Access, vol. 8, pp. 41013–41025, 2020. * S. H. Abdulhussain, A. R. Ramli, B. M. Mahmmod, M. I. Saripan, S. A. R. Al-Haddad, and W. A. Jassim, “A New Hybrid form of Krawtchouk and Tchebichef Polynomials: Design and Application,” J. Math. Imaging Vis., vol. 61, no. 4, pp. 555–570, May 2019. * B. M. Mahmmod, A. R. Ramli, T. Baker, F. Al-Obeidat, S. H. Abdulhussain, and W. A. Jassim, “Speech Enhancement Algorithm Based on Super-Gaussian Modeling and Orthogonal Polynomials,” IEEE Access, vol. 7, pp. 103485–103504, 2019. * S. H. Abdulhussain, A. R. Ramli, B. M. Mahmmod, M. I. Saripan, S. A. R. Al-Haddad, and W. A. Jassim, “Shot boundary detection based on orthogonal polynomial,” Multimed. Tools Appl., vol. 78, no. 14, pp. 20361–20382, Jul. 2019. * Sadiq H. Abdulhussain, Abd Rahman Ramli, S.A.R. Al-Haddad, Basheera M. Mahmmod, and Wissam A. Jassim, “On computational aspects of Tchebichef polynomials for higher polynomial order.”, IEEE Access 5 (2017): 2470-2478. * Sadiq H. Abdulhussain, Abd Rahman Ramli, Basheera M. Mahmmod, S.A.R. Al-Haddad, and Wissam A. Jassim, “Image edge detection operators based on orthogonal polynomials.”, International Journal of Image and Data Fusion 8.3 (2017): 293-308. * Basheera M. Mahmmod, Abd Rahman Ramli, Sadiq H. Abdulhussain, S.A.R. Al-Haddad, and Wissam A. Jassim, “Low-distortion MMSE speech enhancement estimator based on Laplacian prior.”, IEEE Access 5 (2017): 9866-9881. * Basheera M. Mahmmod, Abd Rahman Ramli, Sadiq H. Abdulhussain, S.A.R. Al-Haddad, and Wissam A. Jassim, “Signal compression and enhancement using a new orthogonal-polynomial-based discrete transform.”, IET Signal Processing 12.1 (2018): 129-142. * Sadiq H. Abdulhussain, Abd Rahman Ramli, S.A.R. Al-Haddad, Basheera M. Mahmmod, and Wissam A. Jassim, “Fast Recursive Computation of Krawtchouk Polynomials.”, Journal of Mathematical Imaging and Vision 60.3 (2018): 285-303. * Sadiq H. Abdulhussain, Abd Rahman Ramli, M. Iqbal. Saripan, Basheera M. Mahmmod, S.A.R. Al-Haddad, and Wissam A. Jassim, “Methods and Challenges in Shot Boundary Detection: A Review.”, Entropy 20.4 (2018): 214. * Basheera M. Mohmmod, Sadiq H. Abdulhussain, and Akeel A. Mohammed, “Location Management System based RFID and Google Earth API.”, International Journal of Computer Applications 86.19 (2014): 24-32. * Sadiq H. Abdulhussain , “Enhanced Management of Certificate Caching and Revocation Lists in VANET.”, International Journal of Computer Applications 83.12 (2013): 38-47. * Sadiq H Abdulhussain, Hayder S Radeaf, Basheera M Mahmood, “Concise Architecture of a Remote Network based Controller .”, International Journal of Computer Applications 77.8 (2013): 12-17. * Sadiq H. Abdulhussain, Dheyaa J. K., Basheera M. Mahmmod, “Design and Simulation of a Proposed Location Management Model for Cellular Networks.”, Journal of Mobile Communication 6.1 (2012): 9-15. * Dheyaa J. Kadhim, Sadiq H. Abdulhussain, Basheera M. Ridha, Amna M. Abbas, “A Balanced Backoff Algorithm for IEEE 802.11 wireless network.”, Iraqi Journal of Applied Physics 8.1 (2012): 27-33. * Firas Ali Sabir, Sadiq H. Abdulhussain, “Image Based Multi-Length Random Key Generator.”, Journal of Engineering 17.3 (2011): 486-498.   **Conference Publications**   * A. H. Omran, D. M. Said, S. M. Hussin, S. H. Abdulhussain, and N. Ahmad, “A Survey of Different DC Faults in a Solar Power System,” in 2020 IEEE 8th Conference on Systems, Process and Control (ICSPC), 2020, pp. 13–18. * A. S. Al-Zubaidi, B. M. Mahmmod, S. H. Abdulhussain, and D. Al-Jumaeily, “Re-evaluation of the stable improved LEACH routing protocol for wireless sensor network,” in Proceedings of the International Conference on Information and Communication Technology - ICICT ’19, 2019, pp. 96–101. * S. H. Abdulhussain et al., “A Fast Feature Extraction Algorithm for Image and Video Processing,” in 2019 International Joint Conference on Neural Networks (IJCNN), 2019, pp. 1–8. * S. H. Abdulhussain, A. R. Ramli, A. J. Hussain, B. M. Mahmmod, and W. A. Jassim, “Orthogonal polynomial embedded image kernel,” in Proceedings of the International Conference on Information and Communication Technology - ICICT ’19, 2019, pp. 215–221. * H. S. Radeaf, B. M. Mahmmod, S. H. Abdulhussain, and D. Al-Jumaeily, “A steganography based on orthogonal moments,” in Proceedings of the International Conference on Information and Communication Technology - ICICT ’19, 2019, pp. 147–153. * Sadiq H. Abdulhussain , “Design and simulation of RFID reader protocol for Vehicle tracking system for University Of Baghdad-Aljaderia campus.”, Proceeding of 2nd Information Technology Conference, University of Technology (2010): 142-158. |
| ▼ رسائل الماجستير الذي اشرف عليها  * Video Shot Boundary Detection based on Separable Moments and Support Vector Machine, 2020. |
| ▼ اطاريح الدكتوراه الذي اشرف عليها  * N/A |