**Dr. Nassim Ammour, Associate Professor**



|  |
| --- |
| **Personal Info**  **Name**: Nassim Ammour (Algerian Citezen).  **Date and Pace of Birth:** 1964 Blida Algeria.  **Rank:** Associate Professor.  **Address:** ALISR Laboratory, College of Information and Computer Sciences, King  Saud University, P.O. Box 51178, Riyadh, Saudi Arabia.  **Phone**: +966-1-4696298 Fax: 4696296  **Mobile**: 0532324104.  **Email**: nammour@ksu.edu.sa and nassimammour@yahoo.fr  **Website**: http://fac.ksu.edu.sa/nammour |
| **Education**   * 1983-1988: Bachelor degree in Electronics, Blida University Algeria. * 1988-1995: M.Sc. in Robotics, Blida University Algeria. * 2002-2009: PhD in Computer Vision and Robotics, Ecole Superieure Polytechniques, Algeria. |
| **Professional Experience**   * 2018-Now: Associate Professor, Advanced Lab for Intelligent Systems’ Research (ALISR)., College of Computer and Information Sciences, KSU, Saudi Arabia. * 2009-2018: Assistant Professor, Advanced Lab for Intelligent Systems’ Research (ALISR)., College of Computer and Information Sciences, KSU, Saudi Arabia. * 2003-2009: Senior Lecturer, Electrical Engineering, Blida University, Algeria. * 1999-2003: Lecturer, Electrical Engineering, Blida University, Algeria. * 1988-1999: Instructor(Engineer), Electrical Engineering, Blida University, Algeria. |
| **Re**  **Research Interests:**  Computer vision, Pattern Recognition, Machine intelligence and Robotics, Biometrics. |
| **Supervisions**   * **Master Theses Supervision**   “Agricultural Green-house Automation”, Blida University May 2008. |
| **Publications**  **Journals:**   1. N. AMMOUR, A.GUESSOUM, D. BERKANI, ” Scene analysis using both a probabilistic evolutionary graph and the evidence theory”, WSEAS TRANSACTIONS on BIOLOGY and BIOMEDICINE, Issue 2, Volume 4, February 2007, ISSN: 1109-9518, pages: 22-28. 2. N. AMMOUR, A.GUESSOUM, D. BERKANI,” Using Both a Probabilistic Evolutionary Graph and the Evidence Theory for Color Scene Analysis”, American Journal of Applied Sciences 5 (12), ISSN 1546-9239: 1635-1641, 2008. 3. Nassim Ammour, Naif Alajlan, *“An Adaptive Masker for the Differential Evolution Algorithm ",* IOSR Journal of Computer Engineering (IOSRJCE), Volume 5, Issue 5 (Sep-Oct. 2012), 32 -39. 4. Naif Alajlan, Yakoub Bazi, Nassim Ammour, and Ronald R. Yager, “Ensemble *Classification of Hyper-spectral Images based on OWA Operators ",* The Arabian Journal for Science and Engineering (AJSE) 2013. 5. Haikel Hichri, Nassim Ammour, Naif Alajlan, Yakoub Bazi, **"** *Clustering of Hyper-spectral Images with an Ensemble Method Based on Fuzzy C-means and Markov Random Fields*", Arabian Journal for Science and Engineering: Volume 39, Issue 5 (2014), Page 3747-3757. 6. Nassim Ammour, Naif Alajlan, **“A** *dynamic weights OWA fusion for ensemble clustering.* **",** Signal, Image and Video Processing Journal (SIViP), Springer, page 727-734, Volume 9, Issue 3, July. 2015. 7. Md Saiful Islam, Nassim Ammour, Naif Alajlan, Hatim Aboalsamh, "*Rhythm-based heartbeat duration normalization for atrial fibrillation detection*", Computers in Biology and Medicine, Elsevier, 2016. 8. MS Islam, N Ammour, N Alajlan, M Abdullah-Al-Wadud, “[*Selection of Heart-Biometric Templates for Fusion*](https://scholar.google.com/scholar?oi=bibs&cluster=10581716928939547762&btnI=1&hl=fr)”, IEEE Access, 2017. 9. N. Ammour; H. Alhichri; Y. Bazi; B. Benjdira; Naif Alajlan; M. Zuair, *"Deep Learning Approach for Car Detection in UAV Imagery"*, REMOTE SENSING, Issue 4 Volume 9, ISSN 2072-4292, May /2017, Article number 312. 10. N.Ammour, L Bashmal, Y Bazi, MM Al Rahhal, M Zuair *“Asymmetric Adaptation of Deep Features for Cross-Domain Classification in Remote Sensing Imagery “,* [IEEE Geoscience and Remote Sensing Letters](https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=8859) ( Volume: 15, [Issue: 4](https://ieeexplore.ieee.org/xpl/tocresult.jsp?isnumber=8323283), April 2018 ). 11. L Bashmal, Y Bazi, H AlHichri, MM AlRahhal, N Ammour, N Alajlan, *“Siamese-GAN: Learning Invariant Representations for Aerial Vehicle Image Categorization*”, Remote Sensing 10 (2), 351, 2018. 12. H Alhichri, E Othman, M Zuair, N Ammour, Y Bazi, “[*Tile-Based Semisupervised Classification of Large-Scale VHR Remote Sensing Images*](javascript:void(0))“,Journal of Sensors 2018. 13. Aaliyah Alshehri, Yakoub Bazi, Nassim Ammour, Haidar Almubarak, and Naif Alajlan, “*Deep Attention Neural Network for Multi-Label Classification in Unmanned Aerial Vehicle Imagery*”, *”,* IEEE Access, Volume7, August 2019. 14. Yakoub Bazi, Mohamad M. Al Rahhal, Haikel AlHichri, Nassim Ammour, “*Real-Time Mobile-Based Electrocardiogram System for Remote Monitoring of Patients with Cardiac Arrhythmias* “, International Journal of Pattern Recognition and Artificial Intelligence, Vol. 34, October 2019. 15. Nassim Ammour, Yakoub Bazi, Haikel Alhichri and Naif Alajlan, “*Continual Learning Approach for Remote Sensing Scene Classification* “, IEEE Geoscience and Remote Sensing Letters, 2020.   **Conferences:**   1. ’’ Système d’aide à la correction du sigmatisme occlusif ”, The First International Meeting on Electronics & Electrical Science and Engineering IMESE’06. University of Djelfa, ALGERIA November 4-6, 2006. 2. N. AMMOUR, A.GUESSOUM, D. BERKANI,” Using evolutionary graph for image segmentation”, Proceedings of the 11th WSEAS International Conference on SYSTEMS, Agios Nikolaos, Crete Island, Greece, July 23-25, 2007 ,pp 131-135. 3. N. AMMOUR, A.GUESSOUM, D. BERKANI, ”Colour image segmentation using both a probabilistic evolutionary graph and a competitive neuronal network ”, 2nd International Conference: E-Medical System, October 29-31, 2008 – TUNISIA. 4. N. AMMOUR, A. GUESSOUM, A. BENSLAMA , D. BERKANI, ‘‘Colour image segmentation using both a probabilistic evolutionary graph and a Bayesian refinement’’, 9th Internationalworkshop on Electronics, Control, Modelling, Measurement and Signals 2009. 8-9-10 July, 2009 Mondragon Unibertsitatea, Spain. 5. Naif Alajlan, Nassim Ammour, Yakoub Bazi, and Haikel Hichri, *" A Cluster Ensemble Method for Robust Unsupervised Classification of VHR Remote Sensing Images",* IGARSS IEEE, 24 july, 2011, 2896-2899. Vancouver. 6. Yacoub Bazi, Haikel Hichri, Naif Alajlan, Nassim Ammour, "*Premature Ventricular Contraction Arrhythmia Detection and Classification with Gaussian Process and S Transform",* Fifth International Conference on Computational Intelligence, Communication Systems and Networks, IEEE, 5 june, 2013, pages 36 – 41, Madrid. 7. N. Alajlan, M.S. Islam, N. Ammour*, “Fusion of Fingerprint and Heartbeat Biometrics Using Fuzzy Adaptive Genetic Algorithm,”* World Congress on Internet Security (WorldCIS-2013), London, UK, 9-12 December, 2013. 8. Nassim Ammour, Ahmad Hersi, Naif Alajlan, Yakoub Bazi, Haikel AlHichri, “*Implementation of a Mobile Health System for Monitoring ECG signals*”, ASE BigData/SocialInformatics/PASSAT/BioMedCom2014, Conference, Harvard University, December 14-16, 2014. 9. H. Hichri; Y. Bazi; Naif Alajlan; and Nassim Ammour, " *A hierarchical learning paradigm for semi-supervised classification of remote sensing images*", 2015 IEEE International Geoscience and Remote Sensing Symposium (IGARSS), Milan, Italy, 26-31 July 2015, pages: 4388 – 4391. 10. MS Islam; N. Ammour; Naif Alajlan, "*Atrial Fibrillation Detection with Multiparametric RR Interval Feature and Machine Learning Technique* ", International Conference on Informatics, Health & Technology (ICIHT), Riyadh, Saudi Arabia, Feb 21-23, 2017. 11. Nassim Ammour, “*Atrial Fibrillation Detection with a Domain Adaptation Neural Network Approach*”, International Conference on Computational Science and Computational Intelligence (CSCI), 2018. 12. Dala Alajaji, Haikel Alhichri, Nassim Ammour, and Naif Alajlan, “*Few-Shot Learning for Remote Sensing Scene Classification*”, [Mediterranean and Middle-East Geoscience and Remote Sensing Symposium (M2GARSS)](https://ieeexplore.ieee.org/xpl/conhome/9102710/proceeding), March 2020. 13. [Aaliyah Alshehri](https://ieeexplore.ieee.org/author/37086995624); [Yakub Bazi](https://ieeexplore.ieee.org/author/37088413234); [Nassim Ammour](https://ieeexplore.ieee.org/author/37888867700); [Naif Alajlan](https://ieeexplore.ieee.org/author/37565512900)*, “Multi-Label Classification Of Remote Sensing Imagery With Deep Neural Networks*”, [Mediterranean and Middle-East Geoscience and Remote Sensing Symposium (M2GARSS)](https://ieeexplore.ieee.org/xpl/conhome/9102710/proceeding), March 2020. |
| **Awards**   1. First Place Win of the National Instrument Contest, Landmines Detection Robot, Beirut, Lebanon 2011. 2. Bronze Medal in Geneva innovation Gallery, Switzerland 2012. |
| **Recent professional development activities**   1. Research projects funded by **KACST-KSU** National Plan for Science and Technology (**NPST**)    1. “A smart cardiovascular remote sensing system”, Project identifier: 11-MED-1832-02, Saudi Arabia, 2012-2014.    2. Enhancing Security of Fingerprint Biometrics with Heartbeat Signal for Unattended Applications (2013 Submitted)    3. “Development and FPGA-based Implementation of a Finger Probe for Atrial Fibrillation Screening”, Project number" م ص 34-66" 2013.    4. Enhancing Security of Fingerprint Biometrics with Heartbeat Signal for Unattended Applications. 2020. |