

**Theme 4-1: AI Applications - 2020**

Title	Authors	Scopus Source Title	Volume	Issue	Pages	Source type	Publication type	Open Access
Machine learning approaches for EV charging behavior: A review	Shahriar, S.   Al-Ali, A.R.   Osman, A.H.   Dhou, S.   Nijim, M.	IEEE Access	8	-	168980-168993	Journal	Review	Gold
Enabling multiple health security threats detection using mobile edge computing	Al-Zinati, M.   Almasri, T.   Alsmirat, M.   Jararweh, Y.	Simulation Modelling Practice and Theory	101	-	-	Journal	Article	0
FPGA-based network traffic classification using machine learning	Elnawawy, M.   Sagahyroon, A.   Shanableh, T.	IEEE Access	8	-	175637-175650	Journal	Article	Gold
Botnet Attack Detection using Machine Learning	Alshamkhany, M.   Alshamkhany, W.   Mansour, M.   Khan, M.   Dhou, S.   Aloul, F.	Proceedings of the 2020 14th International Conference on Innovations in Information Technology, IIT 2020	-	-	203-208	Conference Proceeding	Conference Paper	0
Towards an IoT-based Deep Learning Architecture for Camera Trap Image Classification	Zuolkernan, I.A.   Dhou, S.   Judas, J.   Sajun, A.R.   Gomez, B.R.   Hussain, L.A.   Sakhnini, D.	2020 IEEE Global Conference on Artificial Intelligence and Internet of Things, GCAIoT 2020	-	-	-	Conference Proceeding	Conference Paper	0
A Tiny CNN Architecture for Identifying Bat Species from Echolocation Calls	Zuolkernan, I.   Judas, J.   Mahbub, T.   Bhagwagar, A.   Chand, P.	2020 IEEE / ITU International Conference on Artificial Intelligence for Good, AI4G 2020	-	-	81-86	Conference Proceeding	Conference Paper	0
Using Convolutional Neural Networks for Smart Classroom Observation	Khan, M.S.   Zuolkernan, I.	2020 International Conference on Artificial Intelligence in Information and Communication, ICAIC 2020	-	-	608-612	Conference Proceeding	Conference Paper	0
Computational Offloading of Convolutional Neural Network on a Smart Watch	Zuolkernan, I.A.   Towheed, M.	2020 International Conference on Artificial Intelligence in Information and Communication, ICAIC 2020	-	-	203-207	Conference Proceeding	Conference Paper	0
A minimal neural network model to predict power loss due to soiling in stable environments	Arshad, M.A.   Shapsough, S.   Zuolkernan, I.   Dhauouadi, R.   Takroui, M.	2020 International Conference on Electronics, Information, and Communication, ICEIC 2020	-	-	-	Conference Proceeding	Conference Paper	0
Power Prediction via Module Temperature for Solar Modules Under Soiling Conditions	Shapsough, S.   Dhauouadi, R.   Zuolkernan, I.   Takroui, M.	Lecture Notes of the Institute for Computer Sciences, Social- Informatics and Telecommunications Engineering, LNICT	324	-	85-95	Book Series	Conference Paper	0
Using Mobiles to Monitor Respiratory Diseases	Zubaydi, F.   Sagahyroon, A.   Aloul, F.   Mir, H.   Mahboub, B.	Informatics	7	4	-	Journal	Article	Gold
Using siamese networks to detect shading on the edge of solar farms	Shapsough, S.   Zuolkernan, I.   Dhauouadi, R.   Sajun, A.R.	2020 7th International Conference on Internet of Things: Systems, Management and Security, IOTSMS 2020	-	-	-	Conference Proceeding	Conference Paper	0
On the Use of FPGAs to Implement CNNs: A Brief Review	Arshad, M.A.   Shahriar, S.   Sagahyroon, A.	Proceedings - 2020 International Conference on Computing, Electronics and Communications Engineering, ICCEE 2020	-	-	230-236	Conference Proceeding	Conference Paper	0
Forecasting of Electricity Generation for Hydro Power Plants	Javed, U.   Fraz, M.M.   Mahmood, I.   Shahzad, M.   Arif, O.	HONET 2020 - IEEE 17th International Conference on Smart Communities: Improving Quality of Life using ICT, IoT and AI	-	-	32-36	Conference Proceeding	Conference Paper	0
Asthma diagnosis using neuro-fuzzy techniques	Ghosh, A.   Rahman, N.   Awadalla, N.   Sagahyroon, A.   Aloul, F.   Dhou, S.	2020 Advances in Science and Engineering Technology International Conferences, ASET 2020	-	-	-	Conference Proceeding	Conference Paper	0
A Monitoring and Control Gateway for IoT Edge Devices in Smart Home	Aloul, F.   Zuolkernan, I.   Shapsough, S.   Towheed, M.	International Conference on Information Networking	2020-	-	696-701	Conference Proceeding	Conference Paper	0
Towards an Audio-based CNN for Classroom Observation on a Smartwatch	Zuolkernan, I.   Khan, M.S.	2020 IEEE / ITU International Conference on Artificial Intelligence for Good, AI4G 2020	-	-	224-229	Conference Proceeding	Conference Paper	0
Computational Offloading for CNN-based Toxic Comment Detection on a Smartwatch	Zuolkernan, I.A.   Towheed, M.	2020 5th International Conference on Fog and Mobile Edge Computing, FMEC 2020	-	-	284-288	Conference Proceeding	Conference Paper	0
IoT Based Predictive Maintenance Management of Medical Equipment	Shamayleh, A.   Awad, M.   Farhat, J.	Journal of Medical Systems	44	4	-	Journal	Article	
Utilization of machine learning in patient admission into intensive care units	Nazzal, L.   Arafah, E.   Diab, H.   Nassar, M.   Shamayleh, A.   Awad, M.	2020 Advances in Science and Engineering Technology International Conferences, ASET 2020	-	-	-	Conference Proceeding	Conference Paper	