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## Publication Details

### INTERNATIONAL JOURNALS

- D. Jude Hemanth, J. Anitha, Antoanela Naaji, Oana Geman, Daniela Elena Popescu and Le Hoang Son, “A Modified Deep Convolutional Neural Network for abnormal brain image classification”, IEEE Access, vol. 7, pp: 4275-4283, 2018. **(Impact Factor = 3.745).**
- Octavian Postolache, Ricardo Alexandre, Oana Geman, D Jude Hemanth, Deepak Gupta and Ashish Khanna, “Remote Monitoring of Physical Rehabilitation of Stroke Patients using IoT and Virtual Reality”, IEEE Journal on Selected Areas in Communications, (Accepted), 2020. **(Impact Factor = 11.420).**
- Douglas de A. Rodrigues, Roberto F. Ivo, Suresh Chandra Satapathy, Shuihua Wang, Jude Hemanth and Pedro P. Rebouças Filho, “A new approach for classification skin lesion based on transfer learning, deep learning and IoT system”, Pattern Recognition Letters, (Accepted), 2020. **(Impact Factor = 3.255).**
- Anju Asokan , J. Anitha , Monica Ciobanu , Andrei Gabor , Antoanela Naaji and D. Jude Hemanth, “Image Processing Techniques for Analysis of Satellite Images for Historical Maps Classification—An Overview”, Applied Sciences, Vol. 10, No. 12, 4207, 2020. **(Impact Factor = 2.474).**
- Rachna Jain, Preeti Nagrath, Gaurav Kataria, V. Sirish Kaushik and D. Jude Hemanth, “Pneumonia detection in chest x-ray images using convolutional neural networks and transfer learning”, Measurement, (Accepted), 2020. **(Impact Factor = 3.364).**
- Mamta Mittal, Lalit Mohan Goyal, Amit Verma, Iqbaldeep Kaur, Sumit Kaur and D. Jude Hemanth, “Deep learning based enhanced tumor segmentation approach for MR brain images”, Applied Soft Computing, vol. 78, pp: 346-354, 2019. **(Impact Factor = 5.472).**
- Maria Flynn, Dimitris Effraimidis, Anastassia Angelopoulou, Epaminondas Kapetanios, David Williams, D Jude Hemanth and Tony Towell, “Assessing the effectiveness of automated emotion recognition in adults and children for clinical investigation”, Frontiers in Human Neuroscience, DOI: 10.3389/fnhum.2020.00070, 2020. **(Impact Factor = 2.673).**
- Jose A Marmolejo Saucedo, D. Jude Hemanth and Utku Kose, “Prediction of Electroencephalogram time series with electro-search optimization algorithm trained adaptive neuro-fuzzy inference system”, IEEE Access, vol. 7, pp: 15832 -15844, 2019. **(Impact Factor = 3.745).**
- Mehshan Ahmed Khan, Muhamed Attique, Fawad Ahmed, Mamta Mittal, Lalit Mohan Goyal, D. Jude Hemanth and Suresh Chandra Satapathy, “Gastrointestinal diseases segmentation and classification based on duo-deep architectures”, Pattern Recognition Letters, Vol. 131, pp: 193-204, 2020. **(Impact Factor = 3.255).**

- Debabrata Dansana, Raghvendra Kumar, Aishik Bhattacharjee, D. Jude Hemanth, Deepak Gupta, Ashish Khanna, Oscar Castillo, “Early diagnosis of COVID-19-affected patients based on X-ray and computed tomography images using deep learning algorithm”, Soft Computing, DOI: [10.1007/s00500-020-05275-y](https://doi.org/10.1007/s00500-020-05275-y), 2020.
- S Jemimah Priyadharshini and D Jude Hemanth, “Investigation of Nanomaterial Dipoles for SAR reduction in Human Head”, Frequenz, ([Accepted](#)), 2019. (**Impact Factor = 0.543**).
- Oana Geman, Octavian Postolache, Luliana Chiuchisan, Marius Prelipceanu, Ritambhara and D Jude Hemanth, “An Intelligent Assistive Tool using Exergaming and Response Surface Methodology for patients with brain disorders”, IEEE Access, vol.7, pp: 21502-21513, 2019. (**Impact Factor = 3.745**).
- D. Jude Hemanth and J. Anitha, “Modified Genetic Algorithm approaches for classification of abnormal Magnetic Resonance brain tumor images”, Applied Soft Computing, vol. 75, pp: 21-28, 2019. (**Impact Factor = 5.472**).
- D.Jude Hemanth, Omer Deperlioglu and Utku Kose, “An enhanced diabetic retinopathy detection and classification approach using deep convolutional neural network”, Neural Computing and Applications, ([Accepted](#)), 2018. (**Impact Factor = 4.774**).
- Deepika Kumar, Nikita Jain, Aayush Khurana, Sweta Mittal, Suresh Chandra Satapathy, Roman Senkerik and D. Jude Hemanth, “Automatic Detection of White Blood Cancer From Bone Marrow Microscopic Images Using Convolutional Neural Networks”, IEEE Access, vol.8, pp: 142521 – 142531, 2020.
- Mamta Mittal, Lait Mohan Goyal, D Jude Hemanth and Jasleen Kaur Sethi, “Clustering approaches for high dimensional databases: A review”, WIREs Data Mining and Knowledge Discovery, vol. 9, no.3, 2019. (**Impact Factor = 4.476**).
- Rachna Jain, Nikita Jain, Akshay Agarwal and D. Jude Hemanth, “Convolutional neural network-based Alzheimer’s disease classification from magnetic resonance brain images”, Cognitive Systems Research, vol. 57, pp: 147-159, 2019. (**Impact Factor = 1.902**).
- Hongwei Chen, Luying Cao, D. Jude Hemanth, Zairan Li, Lijun Wu, Victor Hugo and Fuqian Shi, “Evaluation on diabetic plantar pressure data-set employing auto-segmentation technologies”, Neural Computing and Applications, <https://doi.org/10.1007/s00521-018-3838-x>, 2018. (**Impact Factor = 4.774**).
- D. Jude Hemanth, J. Anitha, Le Hoang Son and Mamta Mittal, “Diabetic Retinopathy diagnosis from retinal images using modified Hopfield neural network”, Journal of Medical Systems, <https://doi.org/10.1007/s10916-018-1111-6>, 2018. (**Impact Factor = 3.058**).
- D. Jude Hemanth, J. Anitha and Le Hoang Son, “Brain signal based human emotion analysis by Circular back propagation and deep kohonen neural networks”, Computers & Electrical Engineering, vol. 68, pp: 170-180, 2018. (**Impact Factor = 2.663**).

- D. Jude Hemanth, Utku Kose, Omer Deperlioglu and Victor Hugo Albuquerque, “An augmented reality supported mobile application for diagnosis of heart diseases”, Journal of Supercomputing, <https://doi.org/10.1007/s11227-018-2483-6>, 2018, **(Impact Factor = 2.469)**.
- Pedro Pedrosa Filho, Suane Silva, Victor Praxedes, D. Jude Hemanth and Victor Albuquerque, “Control of singularity trajectory tracking for robotic manipulator by genetic algorithms”, Journal of Computational Science, vol. 30, pp: 55-64, 2019, **(Impact Factor = 2.644)**.
- Beejesh A, Varun Gopi and D. Jude Hemanth, “Brain MR kurtosis imaging study: Contrasting gray and white matter”, Cognitive Systems Research, vol. 55, pp: 135-145, 2019, **(Impact Factor = 1.902)**.
- K. Martin Sagayam and D. Jude Hemanth, “ABC algorithm-based optimization of 1-D Hidden Markov Model for hand gesture recognition applications”, Computers in Industry (Elsevier), vol. 99, pp:313-323, 2018 **(Impact Factor = 3.954)**.
- D. Jude Hemanth, J. Anitha, Daniela Elena Popescu and Le Hoang Son, “A Modified Genetic Algorithm for Performance Improvement of Transform based Image Steganography Systems”. International Journal of Intelligent and Fuzzy Systems, DOI: 10.3233/JIFS-169580, 2018, **(Impact Factor = 1.851)**
- J Revathi, Anitha J, Rizwan P, R Manikandan, D Jude Hemanth and Amir H Gandomi, “Machine learning based left ventricular hypertrophy detection using multi-lead ECG signal”, Neural Computing and Applications, DOI: <https://doi.org/10.1007/s00521-020-05238-2>, 2020. **(Impact Factor = 4.774)**.
- J.Jenkin Winston, Gul Fatma Turker, Utku Kose and D. Jude Hemanth, “Novel Optimization based hybrid self-organising map classifiers for iris image recognition”, International Journal of Computational Intelligence Systems, vol.13, no.1, pp: 1048-1058, 2020. **(Impact Factor = 1.838)**.
- J. Jenkin Winston and D. Jude Hemanth, “A comprehensive review on iris image based biometric systems”, Soft Computing, DOI: 10.1007/s00500-018-3497-y, 2018. **(Impact Factor = 3.050)**.
- K. Martin Sagayam and D. Jude Hemanth, “A probabilistic model for state sequence analysis in hidden markov model for hand gesture recognition”, Computational Intelligence, vol. 35, no.1, pp: 59-81, 2019 **(Impact Factor = 1.196)**.
- D. Jude Hemanth and Jemima Priyadharshini, “Investigation and Reduction Methods of Specific Absorption Rate (SAR) for Biomedical Applications: a survey”, International Journal of RF and Microwave Computer-aided Engineering, vol. 28, no. 3, pp: 1-15, 2018, **(Impact Factor = 1.528)**
- Mamta Mittal, Lalit Mohan Goyal, Jasleen Kaur Sethi and D. Jude Hemanth, “Monitoring the impact of economic crisis on crimes using machine learning techniques”, Computational Economics, vol. 53, no. 4, pp: 1467-1485, 2019. **(Impact Factor = 1.317)**
- Pedro Filho, Solon Peixoto, Raul Nobrega, D Jude Hemanth, Aldisio Medeiros, Arun Kumar S and Victor Hugo Albuquerque, “Automatic histologically-closer classification of skin lesions”, Computerized Medical Imaging and Graphics, **(Accepted)**, 2018, **(Impact Factor =3.750)**

- Longfei Zheng, Yu Wang, D. Jude Hemanth, Arun Kumar Sangiah, Lijun Wu and Fuqian Shi, “Data augmentation on mice liver cirrhosis microscopic images employing convolutional neural networks and support vector machine”, Journal of Ambient Intelligence and Humanized Computing, ([Accepted](#)), 2018, (**Impact Factor =4.594**)
- Bhavneet Kaur, Meenakshi, Mamta Mittal, Amit Varma, Lalit Mohan Goyal and D. Jude Hemanth, “An improved salient object detection algorithm combining background and foreground connectivity for brain image analysis”, Computers and Electrical Engineering, ([Accepted](#)), 2018, (**Impact Factor = 2.663**)
- D.Jude Hemanth, J. Anitha and Bernadetta Kwintiana Ane, “Fusion of Artificial Neural Networks for Learning Capability Enhancement: Application to Medical Image Classification”, Expert Systems, <https://doi.org/10.1111/exsy.12225>, 2017, (**Impact Factor = 1.546**)
- D.Jude Hemanth and J. Anitha, “A pattern based Artificial Bee Colony Algorithm for motion estimation in video compression techniques”, Circuits, Systems and Signal Processing, DOI: 10.1007/s00034-017-0613-7, 2017, (**Impact Factor = 1.681**)
- D.Jude Hemanth, J. Anitha & Valentina Emilia Balas, “Fast and Accurate Fuzzy C-Means algorithm for MR brain image segmentation” International journal of imaging systems and technology, vol.26, no.3, pp: 188-195 , 2016. (**Impact Factor = 1.925**).
- D.Jude Hemanth, J. Anitha & A. Indumathy, “Diabetic Retinopathy diagnosis in retinal images using Hopfield neural network” IETE Journal of Research, DOI:10.1080/03772063.2016.1221745 , 2016. (**Impact Factor = 1.125**).
- D.Jude Hemanth, S. Uma Maheswari, Daniela Elena Popescu and Antonalla Naaji, “Application of Genetic Algorithm and Particle Swarm Optimization techniques for improved image steganography systems”, Open Physics, DOI : 10.1515/phys-2016-0052, 2016. (**Impact Factor = 0.963**).
- K. Martin Sagayam and D. Jude Hemanth, “Hand posture and gesture recognition techniques for virtual reality applications: A survey”, Virtual Reality, DOI: 10.1007/s10055-016-0301-0, 2016. (**Impact Factor = 3.634**).
- S. Uma Maheswari & D. Jude Hemanth “Frequency domain QR code based image steganography using Fresnelet transform”, International Journal of Electronics and Communications (Elsevier), vol.69, no.2, pp. 539-544, 2015. (**Impact Factor 2.924**).
- S. Uma Maheswari & D. Jude Hemanth “A Hybrid Edge Detector and Ridgelet Transform based steganography technique for imaging applications”, Defense Science Journal, vol.65, no.3, pp: 214-219, 2015. (**Impact Factor = 0.730**).
- S. Uma Maheswari & D. Jude Hemanth “Performance Improved Transform based Image Steganography Systems using Optimization Techniques”, Multimedia Tools and Applications (Springer), DOI: 10.1007/s11042-015-3035-1, 2015. (**Impact Factor = 2.313**).
- D.Jude Hemanth, J. Anitha & Valentina Emilia Balas, “Performance Improved Modified Fuzzy C-Means Algorithm for Image Segmentation Applications” Informatica, Vol.26, No.4, pp:1-14, 2015. (**Impact Factor = 3.312**).

- Mohammed Majid Al-Rifaie, Ahmed Aber & D. Jude Hemanth, “Deploying swarm intelligence for medical imaging: Identifying metastasis, microcalcification and brain image segmentation”, IET systems biology, doi: 10.1049/iet-syb.2015.0036, 2015. **(Impact Factor = 1.000).**

### **INTERNATIONAL CONFERENCES**

- Dada Emmanuel Gbenga, D. Jude Hemanth, Haruna Chiroma, Shafi'i Muhammad Abdulhamid and Adewale Johnson Taiwo, “Non-nested Generalization (NNGE) algorithm for efficient and early detection of diabetes”, 3<sup>rd</sup> International Conference on Information Technology and Intelligent Transportation Systems, (Accepted), 2018. Place: China **(scopus)**
- Jemimah Priyadarshini and D Jude Hemanth, “Investigation of SAR exposure assessment in vital human tissues at GSM frequency”, Proceedings of 4<sup>th</sup> International Conference on signal processing and intelligent recognition systems, pp: 366-372, 2019. Publisher: **Springer**, Place: Bangalore. **(scopus)**
- J.Anitha, D.Selvathi & D.Jude Hemanth, “Neural computing based abnormal retinal image classification” IEEE International Advanced Computing Conference, pp: 630-635, 2009. Publisher: **IEEE**, Place: Patiala, Punjab. **(scopus)**
- J.Anitha, C.Kezi Selva Vijila & D.Jude Hemanth, “An enhanced Counter propagation neural network for abnormal retinal image classification” IEEE World Congress on Nature and Biologically Inspired Computing, pp: 1-6, 2009. Publisher: **IEEE**, Place: Coimbatore, Tamilnadu. **(scopus)**
- J.Anitha, C.Kezi Selva Vijila, D.Jude Hemanth & A. Ahsina, “Self Organizing neural network based pathology classification in retinal images” International Symposium on Innovations in Natural Computing”, pp:1457-1462, 2009. Publisher: **IEEE**, Place: Cochin, Kerala. **(scopus)**
- J.Anitha, C.Kezi Selva Vijila & D.Jude Hemanth, “Automated RBF neural network based image segmentation technique for DR detection in retinal images” Proceedings of SPIE, vol. 7546, 754609, 2010. Publisher: **SPIE**, Place: Singapore. **(scopus)**
- D.Jude Hemanth & J. Anitha, “Modified Cross-over Techniques in Genetic Algorithm for Performance Enhancement of Retinal Image Classification System” 3<sup>rd</sup> International Conference on Computational Intelligence and Information Technology, pp:28-34, Publisher: **IET**, Place: Mumbai, 2013. **(scopus)**
- D.Jude Hemanth, Valentina Emilia Balas & J. Anitha, “Hybrid neuro fuzzy approaches for abnormality detection in retinal images” 6<sup>th</sup> International Workshop on Soft Computing Applications, pp: 295-305, Publisher: **Springer (AISC series)**, Place: Romania, 2015. **(scopus)**
- Jestin V.K., J.Anitha and D.Jude Hemanth, “Textural Feature Extraction for Retinal Image Analysis”, IEEE International Conference on Computing, Electronics and Electrical Technologies, pp: 548–551, Publisher: **IEEE**, Place: Tamilnadu, India, 2012. **(scopus)**
- S. Uma Maheswari and D. Jude Hemanth, “Data hiding in gray scale images using integer wavelet transform”, International Conference on Information Communication and Embedded systems, pp:1-5, Publisher: **IEEE**, Place: Chennai, India, 2014. **(scopus)**
- D.Jude Hemanth, Valentina Emilia Balas & J. Anitha, “Performance improved hybrid intelligent

system for medical image classification” 7<sup>th</sup> Balkan Conference on Informatics, DOI: 10.1145/2801081.2801095, Publisher: **ACM**, Place: Romania, 2015. (**scopus**)

- D. Jude Hemanth, S. Uma Maheswari, Daniela Elena Popescu and Antoanela Naaji, “The Boon of Bandelet Transform and Discrete Curvelet Transform: Application to Image Steganography”, World Congress on Information Technology, Computational and Experimental Physics, pp:27-30, Place: Poland, 2015. (**scopus**)
- K. Martin Sagayam and D. Jude Hemanth, “Application of Pseudo 2-D Hidden Markov Model for Hand Gesture Recognition”, International Conference on Computational Intelligence and Informatics, pp: 179-188, Publisher: **Springer (AISC series)**, Place: Hyderabad, 2016. (**scopus**)
- K. Martin Sagayam and D. Jude Hemanth, “Comparative Analysis of 1-D HMM and 2-D HMM for hand motion recognition applications”, 4<sup>th</sup> International Conference on Advanced Computing, Networking and Informatics, pp: 227-234, Publisher: **Springer**, Place: NIT Rourkela, Odisha, 2016. (**scopus**)
- J Jenkin Winston and D Jude Hemanth, “Pyramid-based multi scale enhancement method for iris images”, 2<sup>nd</sup> International Symposium on Signal and Image Processing, pp: 13-21, Publisher: **Springer**, Place: RCC Institute of Information Technology, Kolkata, 2019. (**scopus**)
- J. Anitha, P. Eben Sophia and D. Jude Hemanth, “An optimized predictive coding algorithm for medical image compression”, Proceedings of 2<sup>nd</sup> International Conference on Artificial Intelligence, pp: 315-324, Publisher: **Springer**, Place: University of Moratuwa, Srilanka, 2019 (**Scopus**)
- K T Dilna and D. Jude Hemanth, “Fibroid detection in ultrasound uterus images using image processing techniques”, International Conference on Innovative Computing and Communications, pp: 173-179, Publisher: **Springer**, Place: New Delhi, 2020 (**Scopus**).
- Ranjini Surendran and D. Jude Hemanth, “Scene Understanding using deep neural networks: A review”, International Conference on Innovative Computing and Communications, pp: 223-231, Publisher: **Springer**, Place: New Delhi, 2020 (**Scopus**).
- J Jenkin Winston and D. Jude Hemanth, “Moments based feature vector extraction for iris recognition”, International Conference on Innovative Computing and Communications, pp: 255-263, Publisher: **Springer**, Place: New Delhi, 2020 (**Scopus**).
- J Jenkin Winston and D Jude Hemanth, “Performance comparison of feature extraction methods for iris recognition”, International Conference on Information Technology and Intelligent Transportation Systems”, pp: 62-70. Publisher : **IOS Press**, Place: China (**Scopus**).
- M Kalpana Chowdary and D Jude Hemanth, “Emotion recognition using feature extraction techniques”, International Conference on Information Technology and Intelligent Transportation Systems”, pp: 71-76. Publisher : **IOS Press**, Place: China (**Scopus**).
- K Martin Sagayam, D Jude Hemanth, Andrew J, Chiung Ching Ho and Dang Hien, “Interactive educational content using marker based augmented reality”, International Conference on Information Technology and Intelligent Transportation Systems”, pp: 77-85. Publisher : **IOS Press**, Place: China (**Scopus**).



- Reshmi Krishna and D. Jude Hemanth, “Heart disease detection using neural network based classification”, IEEE International Conference on Engineering and Technology, Publisher: **IEEE**, Place: Coimbatore, pp. 758-763, 2015.
- Krishnapriya B & Jude Hemanth D, “Comparison of Principal Component Analysis and Modified Principal Component Analysis for Face Recognition”, International Conference on Advances in Electrical & Electronics Engineering, pp: 98-101, 2013. Publisher: IPM, Place: Cochin.
- Renuka C & Jude Hemanth D, “Texture Analysis of Retinal Images Using Image Processing Techniques”, International Conference on Advances in Electrical & Electronics Engineering, pp: 166-171, 2013. Publisher : IPM , Place: Cochin.
- Vysali Uchampally & Jude Hemanth D, “Feature Extraction Technique for MR Brain Image Analysis”, International Conference on Advances in Electrical & Electronics Engineering, pp: 224-228, 2013. Publisher : IPM, Place: Cochin.
- Tinu Immanuel & D Jude Hemanth, “Reversible QR code hiding in images using spatial domain techniques”, Proceedings of IETE International Conference on Robotics and Automation, pp:1-5, 2016. Publisher : IETE, Place; Trivandrum.
- Jemima Priyadarshini S and Jude Hemanth D, “Analysis of SAR impact on a tissue cube with graphene based IFA”, Proceedings of IASTEM International Conference, pp:1-4, 2016. Place: Boston, USA.
- J S Park, D Lopez De Luise, D J Hemanth and J Perez, “Environment Description for Blind People”, Proceedings of 7<sup>th</sup> International Workshop on Soft Computing Applications, Romania (**Accepted**), 2016. (**Springer**) (**scopus**)
- Vania Estrela, Osamu Saotome, Jude Hemanth and Rui Cabral, “Emergency Response Cyber-Physical System for Disaster Prevention with Sustainable Electronics”, Proceedings of 10<sup>th</sup> International Conference on Pervasive Technologies related to Assistive Environments, DOI : [http://dx.doi.org/ 10.1145/3056540.3064966](http://dx.doi.org/10.1145/3056540.3064966), Publisher : **ACM**, Place : Greece, 2017. (**scopus**)
- D. Jude Hemanth, Daniela Elena Popescu, Mamta Mittal and S Uma Maheswari, “ Analysis of Wavelet, Ridgelet, Curvelet and Bandelet transforms for QR code based Image Steganography”, International Conference on Engineering of Modern Electric Systems, pp: 121-126, Publisher : **IEEE**, Place: Romania, 2017. (**scopus**)
- Daniela Elena Popescu, Marcela Florina Prada, Anca Dodescu, D. Jude Hemanth and Constantin Bungau, “A secure confident cloud computing architecture solution for a smart campus”, Proceedings of 7<sup>th</sup> International Conference on Computers, Communications and Control, pp: 240-245, Publisher : **IEEE**, Place: Romania, 2018 (**Scopus**)
- Jemimah Priyadarshini S and D Jude Hemanth, “Effect of SAR impact on a tissue cube with Graphene-dipole for 900 MHz”, Proceedings of 4<sup>th</sup> IEEE International Conference on Advances in Electrical, Electronics, Information, Communication and Bio-informatics, pp: 350-353, Publisher: IEEE, Place: Chennai, India, 2018 (**Scopus**)
- D. Jude Hemanth, Daniela Elena Popescu and J.Anitha, “Analysis of Daubechies wavelet transform based human detection approaches in digital videos”, Proceedings of 22<sup>nd</sup> IEEE

International Conference on Intelligent Engineering Systems, pp: 383-388, Publisher: IEEE, Place: Spain, 2018 (Scopus)

- Vania Viera Estrela, D. Jude Hemanth, Osamu Saotome, Edwiges G H Grata and Daniel R F Izario, "Emergency response cyber-physical system for flood prevention with sustainable electronics", Proceedings of the 3<sup>rd</sup> Brazilian Technology Symposium, pp: 319-328, Publisher: Springer, Place: Brazil, 2018 (Scopus)
- J. J. Winston, D. J. Hemanth, A. Angelopoulou and E. Kapetanios, "Iris image recognition using optimized Kohonen self organizing neural network," *9th International Conference on Imaging for Crime Detection and Prevention (ICDP-2019)*, London, UK, 2019, pp. 74-79. (Scopus)
- M. K. Chowdary, D. J. Hemanth, A. Angelopoulou and E. Kapetanios, "Feature extraction techniques for human emotion identification from face images," *9th International Conference on Imaging for Crime Detection and Prevention (ICDP-2019)*, London, UK, 2019, pp. 86-92. (Scopus)