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- (1) B. Das and B. Bhowmick, " Impact of traps on DC, analog/RF, and linearity performance of Ferro-TFET," in Silicon, Oct. 2022. Doi: <https://doi.org/10.1007/s12633-022-02167-8>.
- (2) Abhinandan Kalita, "In-dept Understanding of LSTM and its recent advances in lung disease diagnosis," World Journal of Advanced Research and Reviews, eISSN: 2581-9615, CODEN(USA): WJARAI, Impact Factor: 7.8, Vol. 14, Issue 03, Pg. 517–522, June 2022. DOI: <https://doi.org/10.30574/wjarr.2022.14.3.0602>
- (3) Abhinandan Kalita, "Detection of COVID-19 using Modified VGG Architectures", International Journal of Current Science Research and Review, ISSN: 2581-8341, Impact Factor: 5.995, IPI Value: 2.87, Vol. 05, Issue 06, Pg. 2113-2118, June 2022. DOI: 10.47191/ijcsrr/V5-i6-40
- (4) Namrata Kataki, Dr. Amrita Ganguly, "Application of edge detection technique on dental images to find human identity," in International Journal for Modern Trends in Science and Technology, Volume 8, Issue 06, June 2022, pg no 154-15, ISSN: 2455-3778
- (5) Taskin Hayat, Namrata Kataki, "IOT Based Solar Grid Monitoring and Performance Analysis System", International Journal for Research in Engineering Application & Management (IJREAM) ISSN: 2454-9150 Vol-08, Issue-02, MAY 2022 pg 226-233.
- (6) Namrata Kataki, Sanjana Dutta Choudhury, Hrishikesh Gogoi, Swaraj Bora, Pratyosh Pawan Bora, "Implementation of Machine Learning in Early Detection of Breast Cancer", International Journal of Emerging Technologies and Innovative Research (JETIR) ISSN:2349-5162, Vol.9, Issue 5, page no.c261-c267, May-2022.
- (7) Namrata Kataki, Dibyani Darsha Borah, "Design and implementation of a Smart Stick for visually impaired person using Arduino", International Journal for Modern Trends in Science and Technology, Volume 8, Issue 04, April 2022 ISSN: 2455-3778 , pg 162-165.
- (8) Anindita Bora, IOT based smart farming using ESP8266, International journal of creative research thoughts, 2022.

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- (9) Shaiba Akhter, Subhadra Das, "Currency Detection using Image Processing with Artificial Intelligence", International Journal of Advanced Computational Engineering and Networking, ISSN(p): 2320-2106, ISSN(e): 2321-2063 Volume-9, Issue-9, Sep.-2021. DOI ONLINE NO - IJACEN-IRAJ-DOI ONLINE-18152
- (10) B. Das and B. Bhowmick, "Effect of Curie Temperature on Ferroelectric Tunnel FET and Its RF/Analog Performance," in IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, vol. 68, no. 4, pp. 1437-1441, April 2021, doi: 10.1109/TUFFC.2020.3033761.

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- (11) Abhinandan Kalita, "Vessel Detection using Morphological Operations on Fundus Images," International Research Journal of Engineering and Technology, e-ISSN: 2395-0056, Impact Factor: 7.529, Volume 7, Issue 6, Pg 7661-7667, June, 2020.
- (12) Abhinandan Kalita, "Early Detection of Diabetic Retinopathy", International Journal of Advanced Research in Science, Engineering and Technology, e-ISSN: 2350-0328, Impact Factor: 6.646, Volume 7, Issue 6, Pg. 14249-14256, June, 2020.

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- (15) Subhadra Das, Bhaskar Jeet Dutta, Bhaskarjyoti Deka, Biplab Kr. Das, "Design of an image restoration model using filtering techniques", Journal of research in image and signal processing, vol 4 , issue 2, June 2019
- (16) Abhinandan Kalita, "Feature Set for the Extraction of Exudates for the Analysis of Diabetic Retinopathy," International Journal for Research in Engineering Application and Management, UGC Journal No.-64077, ISSN-2454-9150, Impact Factor: 5.646, Vol. 05, Issue 03, Pg. 469-472, June, 2019.
- (17) Abhinandan Kalita, "Exudates Detection in Fundus Images," International Journal of Computer Sciences and Engineering, UGC Journal No.-63193, ISSN-2347-2693, Impact Factor: 2.638, Page 516-521, Vol. 07, Issue 06, June, 2019.

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- (19) N. Katak, A. Nath, M. Das, A. Goswami, "Portable Medicine Reminder and Automatic Monitoring System," IJREAM, Vol-04, Issue-03, June 2018, pp 247-251 impact factor 5.646

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- (20) Abhinandan Kalita, "Microaneurysm Detection in Fundus Images," International Journal for Research in Engineering Application and Management, UGC Journal No.-64077, ISSN-2454-9150, Impact Factor: 5.646, Pg. 408-412, Vol. 04, Issue 02, May, 2018.
- (21) Abhinandan Kalita, "Analysis of Diabetic Retinopathy based on Texture Properties of Retinal Images", International Journal of Computer Sciences and Engineering, UGC Journal No.-63193, ISSN-2347-2693, Impact Factor: 2.638, Page 516-521, Vol. 06, Issue 05, May, 2018.
- (22) Subhadra Das, "Adaptive Filtering based noise cancellation in stochastic wireless channels," Journal of Electronics and Optical communication engineering, volume 3 , Issue 1, 2018.

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- (23) Gargi Kar Purkayastha, "Performance Analysis of Coherent and Non-Coherent Modulation Schemes in Faded Wireless Channels using ANN-assisted MRC", International Journal of Computer Applications(0975 – 8887), Volume 160- No.5, February 2017.

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- (24) B. Das, "GaN channel Nanoscale MOSFET with silicon source and Drain and Silicon Germanium Bulk," in Int. Journ. of Computer Sciences and Engineering (IJCE),, Vol. 04, Issue. 07, Dec , 2016.
- (25) Subhadra Das and Kandarpa Kumar Sarma, "Coding Assisted Adaptive Noise Cancellation in Stochastic MIMO wireless channels" International Journal of Computer Applications (IJCA), Foundation of Computer Science, USA, volume 143, number 11, DOI-10.5120/ijca2016910500, ISBN:973-93-80893-44-8, June 2016
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- (27) B.Das, R.Goswami and B.Bhowmick. "A Physics Based Potential and Electric Field Model of a Nanoscale rectangular high-K gate dielectric HEMT," Pramana (Springer India), Vol .86, Issue. 4, pp 723–736, April ,2016.

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- (28) B.Bhowmick, R.Goswami and B.Das. "A Mathematical Model and an Algorithm for Transmission in Single Rectangular Potential Barriers," International Journal of Pure and Applied Mathematics, v.101, no.5, pp 605-615, Jun., 2015.
- (29) R.Goswami, P.K. De and B.Das. "Study Of Some Properties Of Square Of Whole Number," International Journal of Computer Application, v.112,no. 16, pp 4-9, Feb., 2015.

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- (35) Abhinandan Kalita, Md. Sajjad Hossain and Kandarpa Kr. Sarma, "A New Approach to Image Denoising based on Wiener-LMMSE Scheme," International Journal of Computer Applications, Vol. 45, No. 22, pp. 41-47, ISSN: 0975-8887, Impact Factor: 0.745, May 2012.
- (36) Abhinandan Kalita and Md. Sajjad Hossain "DWT-DCT Based Iris Recognition Technique Using Self Organizing Map Neural Network", International Journal of Graphics and Image Processing, ISSN: 2249 – 5452, Impact Factor: 3.26, Vol. 2, Issue 2, Pg. 98-104, May 2012.
- (37) Subhadra Das, "Noise Cancellation in Stochastic Wireless Channels using Coding and Adaptive Filtering" is published in the International Journal of Computer Applications (IJCA), volume 46, number 14, May 2012.
- (38) Subhadra Das, "Design of a USB based Multichannel Low-cost Data Acquisition System using PIC microcontroller", International Journal of Computer Applications, 2012

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- (1) Abhinandan Kalita, P. Rangababu and Shaik Rafi Ahamed, "A Featherlight CNN-based Method for COVID-19 Detection," 4th Research Conclave-2023 organized by National Institute of Technology, Meghalaya, Shillong, India, during 28th February to 1st March 2023.

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- (2) Abhinandan Kalita, P. Rangababu and Shaik Rafi Ahamed, "Detection of COVID-19 using a Deep Neural Network with Transfer Learning Approach," IEEE International Conference on Smart Technologies and Systems for Next Generation Computing organized by IFET College of Engineering, Villupuram, Tamil Nadu, India during 25 - 26, March 2022.
- (3) Abhinandan Kalita, P. Rangababu and Shaik Rafi Ahamed, "A Study of LSTM and its Importance in Diagnosing COVID-19," 3rd Research Conclave-2022 organized by National Institute of Technology, Meghalaya, Shillong, India, during 28th February to 1st March 2022 [2nd best paper award (Oral Presentation-Engineering)].
- (4) Anindita Bora, Study of ESRGAN Based Model for Style Transfer on Images, 2022 USTM-AIMT International.

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- (5) Shaiba Akhter, Subhadra Das, "Currency Detection using Image Processing with Artificial intelligence" International conference on communication, electronics, and electrical engineering (ICCEEE) under International society for scientific research and development (ISSRD) held in Dispur on 9th August, 2021, ISBN: 978-93-90150-28-1.
- (6) Alokjwal Das, Dipamani Pathak and Kukil Khanikar, "Analysis of Probability of Collision of CAMs in Opportunistic Vehicular Communication," 2021 IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS), 2021, pp. 1-6, doi: 10.1109/ANTS52808.2021.9937019.
- (7) Abhinandan Kalita and P. Rangababu, "A Study of Ultrasound Elastography and Chest CT in the Diagnosis of COVID-19 Pneumonia," 2nd Research Conclave-2021 organized by National Institute of Technology, Meghalaya, Shillong, India, during 28th February to 1st March 2021.

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- (8) Abhinandan Kalita and Rajesh Kalita, "Early Detection of Diabetic Retinopathy," 3rd National Conference in Recent Advances in Science and Technology (Poster Presentation) organized by Assam Science and Technology University, Guwahati (Under TEQIP-III), August 17-19, 2020.

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- (11) Anindita Bora, Temperature Modulation of Gas Detection System Using Different Heating Voltage Waveform, National Conference on Recent Innovative Trends in Engineering and Technology (NCRITET-2016).
- (12) B. Das, "GaN channel Nanoscale MOSFET with silicon source and Drain and Silicon Germanium Bulk," in proceedings of National conference on Recent Innovative Trends in Engineering and Technology (NCRITET 2016), Guwahati, Assam, India, Nov. 11-12, 2016. (Participated and Presented).
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- (14) Anindita Bora, Recent Advances in Electronic Nose and Signal Analysis, The International Conference on Electronic Devices Circuits Applied Electronics and Communication Technology, 2015
- (15) Alokjwal Das, Jhimli Kumari Das, "Development of Sensor Based System to study the effect of venation on Optical properties of Leaves," 11th IRF International Conference, 2015, ISBN: 978-93-84209-27-8, pp.142-145.

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- (16) Basab Das and Brinda Bhowmick, "Arc shaped gate nanoscale AlGa_N/Ga_N HEMT with high-k gate dielectric," in Proceedings of 3rd International Conference on Recent Trends in Engineering & Technology (ICRTET' 2014) (March 28-30, 2014), Elsevier Science & Technology, SNJB's Late Sau. K. B. Jain College of Engineering, Chandwad, India, March 28-30, 2014
- (17) Rupam Goswami, Basab Das, Brinda Bhowmick and Shanidul Haque, "A single gate nanoscale n-channel Silicon MOSFET with gate overlap Silicon Germanium region for improved Ion/Ioff ratio," in Proceedings of IEEE International Conference on Circuit, Power and Computing Technologies (ICCPCT 2014), Noorul Islam Centre for Higher Education, Kumaracoil, India, March 20-21, 2014.
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- (19) Brinda Bhowmick, Srimanta Baishya, Rupam Goswami, Basab Das, and C Joshy, "An Optimized SOI g-TFET and its application in a Half Adder Circuit," in Proceedings of IEEE International Conference on Devices, Circuits and Systems 2014 (ICDCS'14), Karunya University, Tamil Nadu, India, March 6-8, 2014.
- (20) Basab Das and Brinda Bhowmick, "AlGa_N/Ga_N nanoscale HEMT with arc shaped gate and stacked HfO₂ – SiO₂ gate dielectric," in Proceedings of IEEE Conference on Green Computing, Communication and Electrical Engineering (ICGCCEE), Tamil Nadu, India, March 6-8, 2014.

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- (23) Subhadra Das, "Adaptive Filtering and Coding based Noise Cancellation in Stochastic MIMO Wireless Channels" at International Conference on Electronics and Communication Engineering and Power System Operation and Energy Management (ECE) and (PSOEM), June 3, 2012.

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- (28) Anindita Bora, Design of a Compact Polarised Square microstrip Antenna using Inductive Loading, 2009, National conference on Communication.

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1. B. Das and B. Bhowmick, " Effect of Noise and Temperature on the Performance of Ferro-Tunnel FET," In: R. Goswami, R., R. Saha (eds) Contemporary Trends in Semiconductor Devices. Lecture Notes in Electrical Engineering, vol 850. Springer, Singapore. https://doi.org/10.1007/978-981-16-9124-9_3