

Dr.T.D.Subash
Board of Governors, IEEE Photonics Society, USA
Professor, Zhejiang Ocean University, China
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CURRICULUM VITAE

A. PERSONAL DETAILS:

<i>Date of Birth:</i>	11.05.1987	<i>Nationality:</i>	Indian
<i>Marital Status:</i>	Married	<i>Sex:</i>	Male
<i>Highest Degree:</i>	PhD	<i>Year & Institution:</i>	2016, Anna University, India

B. PROFESSIONAL BACKGROUND AND QUALIFICATIONS:

<i>Specialisation:</i>	Millimeter-Wave Radar, Perovskite Solar Cells, Semiconductor Devices and Circuits
<i>Research Interests:</i>	Photonics Radar, Nanoelectronics, Nanoscale Device Modeling, Light Emitting Diodes, Solar Cell, Wireless Sensor Networks and Material science.
<i>Qualification 1</i>	Ph.D.: Doctor of Philosophy in Electrical Engineering (2016) - “Modeling and Simulation of Low Gate Length InSb QWFET for RF Applications” - Anna University, Chennai, Tamilnadu, India. (Highly Commended)
<i>Qualification 2</i>	M.E.: Master of Engineering in Embedded System Technologies (2011) - First Class (8.4 CGPA), Anna University, Chennai, Tamilnadu, India.
<i>Qualification 3</i>	B.E.: Bachelor of Engineering (Electronics and Communication Engineering) (2008) - First Class (71%), Anna University, Chennai, Tamilnadu, India.

C. EMPLOYMENT HISTORY:

<i>Position 1</i>	Professor, School of Information Engineering, Zhejiang Ocean University, Zhejiang, China (2024 – till date)
<i>Position 2</i>	Dean – Research & Development, VISAT Engineering College, Ernakulam, Kerala, India (2022 – 2024)
<i>Position 3</i>	Dean (Academic and Research), Mangalam College of Engineering, Kottayam, Kerala, India (2016 - 2022)

D. ADMINISTRATIVE & NON-SUBSTANTIVE APPOINTMENTS HELD:

<i>Appointment 1</i>	Board of Governors, IEEE Photonics Society, USA https://ieeephotonics.org/about/board-of-governors/
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<i>Appointment 2</i>	Chair – IEEE Greentronics Technical Committee – IEEE Smart Cities https://smartcities.ieee.org/about/technical-tracks/ieee-greentronics-sustainable-electronics-for-smart-urban-futures
<i>Appointment 3</i>	IEEE AI Coalition – Representative of IEEE Photonics Society (2026 - 2028)
<i>Appointment 4</i>	Ambassador - IEEE Council on RFID (2025 - 2027) https://www.ieee-rfid.org/crfid-ambassadors/
<i>Appointment 5</i>	Global Strategy Representative for India, IEEE Photonics Society, USA (2021 – 2023) https://www.photonicsociety.org/chapters-communities/globalization-committee
<i>Appointment 6</i>	Chair, IEEE Biometric Council Nanjing Chapter (2025 - 2027)
<i>Appointment 7</i>	Chair, IEEE EMBS Nanjing Section Chapter (2026 - 2027)

E. RESEARCH PORTFOLIO:

<i>Title of Project</i>	<i>Year/Status</i>	<i>Amount</i>	<i>Agency</i>
Investigation of High Efficiency Low Cost Solar Cells for Space Applications	2022	INR. 9,44,433 Lakhs	All India Council for Technical Education (Govt. of India) - RPS – Research Promotion Scheme
Study & Installation of 100KW Solar PV Plant	2017	INR. 35,78,500 Lakhs	Mangalam Educational Society & Agency for Non-Conventional Energy, Ministry of New & Renewable Energy, Govt. of India & Rural Technology(ANERT), Government of Kerala
Portable Mechanical Ventilator	2020	USD 5000	IEEE HAC & SIGHT, IEEE USA

F. RESEARCH OUTPUT:

Book	3
Research Papers	SCI - 25, SCOPUS – 88 , Conferences – 39
Patents	5
PhD Guided	2 – Completed
Invited Talk	92
Events participated	102
Events hosted	207

G. RECENT ACHIEVEMENTS:

- Elected Member, Board of Governors, IEEE Photonics Society, USA
- Selected TALENT for the 2022 National Youth Project TALENT Scheme, Government of China

- Professor, School of Information Engineering, Zhejiang Ocean University, Zhoushan, Zhejiang, China (2024 – till date) – Chinese Talent Programme
- IEEE Volunteer Leadership Training Program (VoLT) Graduate 2025

H. Papers Published in SCI Indexed Journals:

1. **T D Subash**, Devi Arumugam, Vijayalakshmi S, Subha T D & Yun Gao, 2026, “Optimized Three-Layer Carbon Electrode Architecture for High-Performance CsPbI₃ Perovskite Solar Cells”, *Progress in Photovoltaics: Research and Applications* (**Wiley**), Vol. 257, Issue No. 5, pp. 3421 - 3428, ISSN: 1062-7995 (**Impact Factor - 7.6 SCI Indexed**) - (**First & Corresponding author**)
2. **T D Subash**, M Sukanya, D Haripriya, K Saranya, Balaji S R & Samuthira Pandi V, 2026, “Development of an Intelligent Framework for Photocatalytic CO₂ Reduction to CH₄ with Enhanced Selectivity Using 3D/2D Perovskite Bilayer Composites”, *Journal of Materials Science: Materials in Electronics* (Springer), Vol. 37, Issue No. 05, pp. 1272-1 - 1272-19, ISSN: 0957-4522 (Impact Factor - 2.9 SCI Indexed) - (**First & Corresponding author**)
3. **T D Subash**, R Ganesh Babu, Pradeep K R, Subha T D & Yun Gao, 2026, “Deep Learning-Based Phase Noise Mitigation in FMCW LiDAR Sensors for Precise Distance Measurement during Sweeping”, *IETE Journal of Research* (**Taylor & Francis**), Vol. 141, Issue No.3, pp. 729 - 736, ISSN: 0974-780X (**Impact Factor – 1.5 SCIE Indexed**) - (**First & Corresponding author**)
4. **T D Subash**, Devi Arumugam, Naresh Kumar Thapa K, Subha T D & Yun Gao, 2026, “Surface Modification of Perovskite Solar Cells Using Organic Dyes for Enhanced Efficiency and Moisture Stability”, *Journal of Electronic Materials* (**Springer**), Vol. 57, Issue No. 3, pp. 6453 - 6465, ISSN: 0361-5235 (**Impact Factor - 2.5 SCI Indexed**) - (**First & Corresponding author**)
5. **T D Subash**, R Ganesh Babu, D Loganathan, Subha T D & Zhongyan Huo, 2026, “Advanced Target Detection Strategy Using a Hybrid Multiplexing Photonic Radar System for Resilient and Intelligent Autonomous Vehicle Operation in 5G Communication Environments”, *International Journal of Pattern Recognition and Artificial Intelligence* (**World Scientific**), Vol. 257, Issue No. 5 pp. 124642 - 124657, ISSN: 0218-0014 (**Impact Factor - 1.1 SCI Indexed**) - (**First & Corresponding author**)
6. **T D Subash**, R Ganesh Babu, Vimala Josphine & Subha T D, 2026, “Optimization of Absorber Layer Thickness and for Enhanced Efficiency and Stability in Lead-free Perovskite/Silicon Tandem Solar Cells”, *Renewable Energy* (**Elsevier**), Vol. 257, Issue No.

5 pp. 124642 - 124657, ISSN: 0960-1481 0960-1481 (**Impact Factor - 9.1 SCI Indexed**) -
(**First & Corresponding author**)

7. Lalitha S.D, **T D Subash**, & T.D. Subha, 2026, "An Advanced Micro-Expression Recognition Framework Utilizing Optimized Gegenbauer Graph Neural Network for Accurate Hidden Emotion Classification Based on Facial Movements International Journal of Pattern Recognition and Artificial Intelligence", *Knowledge-Based Systems (World Scientific)*, vol.341, no.04, pp. 115665 - 115669, ISSN: 0218-0014, **Impact Factor: 1.1 (SCI Indexed) (Co-author)**
8. M Shakunthala, T.D. Subha, A. Anna Lakshmi & **T D Subash**, 2026, "Automated brain stroke detection in magnetic resonance imaging using self-modulating convolutional neural networks for enhanced ischemic and hemorrhagic stroke classification", *Knowledge-Based Systems (Elsevier)*, vol.341, no.04, pp. 115665 - 115669, ISSN: 0950 - 7051, **Impact Factor: 7.6 (SCI Indexed) (Co-author)**
9. B. Nakarmi, S. M. R. Islam, S. Zhijie, I. A. Ukaegbu, A. Ashimbayeva, C. Molardi, **T. D. Subash**, M. R. C. Beson, & S. Pan, 2026, "Target Detection Using Photonics-Driven Robust Waveforms in Interference-Prone Radar Networks", *IEEE Transactions on Microwave Theory and Techniques (IEEE Transactions)*, Vol. 257, Issue No. 5, pp. 124642 - 124657, ISSN: 0018 9480 (**Impact Factor – 4.5 SCI Indexed**) - (**Co-author**)
10. Algerim Ashimbayeva, S. Zhijie, M. R. C. Beson, **T D Subash**, Ikechi Augustine Ukaegbu, Shilong Pan, Carlo Molardi & Bikash Nakarmi, 2026, "Linewidth Enhancement of Range Profile in Multi-Chirp Radar via Beat Signal Chirp and Phase Normalization" *IEEE Access (IEEE)*, Vol. 13, pp. 24080-24090, ISSN: 2169-3536 DOI: 10.1109/ACCESS.2025.3535472 (**Impact Factor - 3.9 SCI Indexed**) (**Co-author**)
11. M Shakunthala, T.D. Subha, A. Anna lakshmi & **T D Subash**, 2026, "Automated brain stroke detection in magnetic resonance imaging using self-modulating convolutional neural networks for enhanced ischemic and hemorrhagic stroke classification", *Knowledge-Based Systems (Elsevier)*, vol.341, no.04, pp. 115665 - 115669, ISSN: 0950 - 7051, **Impact Factor: 7.6 (SCI Indexed) (Co-author)**
12. **T D Subash**, Sun Zhijie, C. B. M. Rashidi, Rezwanul Islam S M, Ukash Nakarmi, Ikechi Augustine Ukaegbu & Bikash Nakarm,i 2025, "Efficient Back-projection Technique for Multiple Objects Detection and 2D Imaging through Photonics-based LFM Radar", *IEEE Access (IEEE)*, Vol. 13, pp. 24080-24090, ISSN: 2169-3536 Digital Object Identifier: 10.1109/ACCESS.2025.3622227 (**Impact Factor - 3.9 SCI Indexed**) - (**First author**)

13. **T D Subash**, N Janaki Manohar, Alwin Vinifred Christopher & Subha T D, 2025, "Enhancing Channel Estimation and Efficiency in Millimeter-Wave Massive Multiple Input Multiple Output Systems by Exploiting Reconfigurable Intelligent Surface and Gegenbauer Graph Neural Networks for High-Resolution Signal Reconstruction", *International Journal of Communication Systems (Wiley)*, Vol. 12, Issue No. 5 (**Impact Factor - 1.7 SCI Indexed**) - **(First & Corresponding author)**
14. Jeepa K J, Rajeesh J, **T D Subash**, Gayathre Lakshmi M, Acchutharaman K R, Senthil Pandian M, Ismail Fathima M & T D Subha, 2025 "Investigation of Magnesium-doped TiO₂ for Economical Perovskite Solar Cells", *Ceramics International (Elsevier)*, Vol. 51, Issue No. 5, pp. 49285 – 49294, ISSN: 0272-8842 (**Impact Factor - 5.6 SCI Indexed**) - **(Corresponding author)**
15. Bikash Nakarmi, S M Rezwanul Islam, Hum Nath Parajuli, Ikechi Augustine Ukaegbu, Algerim Ashimbayeva, Carlo Molardi, **T D Subash**, Xiangchuan Wang & Shilong Pan, 2025, "Target Detection Using Fused Unidentical Photonics-based LFM Sub-band Radar signals with an Adaptive Feed Forward Network Equalizer" *IEEE Access (IEEE)*, Vol. 13, pp. 24080-24090, ISSN: 2169-3536 DOI: 10.1109/ACCESS.2025.3535472 (**Impact Factor - 3.9 SCI Indexed**) **(Co-author)**
16. T D Subha, **T D Subash**, Lalitha S D & Shobana J, 2025, "Optimizing the Efficiency of Perovskite Solar cells for Improved Performance and Energy Conversion Using Temporal Dynamic Graph Neural Network", *Journal of Computational Electronics (Springer)*, ISSN: 1569-8025, Vol. 12, Issue No. 5 (**Impact Factor - 2.2 SCI Indexed**) **(Co-author)**
17. S.Muthumarilakshmi, D.Hemanand, R.Ganesh Babu & **T D Subash**, 2026, "AI-Based Tuberculosis Detection and Localization in Chest X-Rays Using a Binarized Simplicial Convolutional Neural Network for Efficient and Accurate Diagnosis Biomedical Signal Processing and Control", *Biomedical Signal Processing and Control (Elsevier)*, vol.113, no.04, pp.108928 - 108944, ISSN: 1746-8094, **Impact Factor: 4.9 (SCI Indexed)** **(Co-author)**
18. K J Jeepa, **T D Subash**, Joseph Wilson & Ajayan J, 2024, "Optimization of Lead Free Cs₂TiBr₆ Green Perovskite Solar Cell for Future Renewable Energy Applications", *Current Nanoscience (Bentham Science)*, vol.21, no.04, pp.1-8, ISSN: 1875-6786, **Impact Factor: 1.5 (SCI Indexed)** **(Co-author)**
19. T D Subha, C Arunachala Perumal, **T D Subash** & K J Jeepa, 2022, "A hybrid technique employed for efficiency improvement of tandem perovskite solar cell", *Journal of*

Progress in Photovoltaics: Research and Applications (**Wiley**), vol.1, no.20, pp.1-8, ISSN: 1099 – 159X, **Impact Factor: 8.490 (SCI Indexed) (Co-author)**

20. Rittam Dutta, **T D Subash** & Nitai Patiya, 2021, “Improved DC Performance Analysis of a Novel Asymmetric Extended Source Tunnel FET (AES-TFET) for Fast Switching Application”, *Journal of Silicon* (**Springer**), vol.7, no.3, pp.886-894, ISSN: 1876-990X, Impact Factor: 1.499 (**SCI Indexed**) (**Co-author**)
21. Rittam Dutta, **T D Subash** & Nitai Patiya, 2021, “DC Performance Analysis of III-V/Si Heterostructure Double Gate Triple Material PiN Tunneling Graphene Nanoribbon FET Circuits with Quantum Mechanical Effects”, *Journal of Computational Electronics* (**Springer**), vol.10, no.6, pp.7886 - 7898, ISSN: 1569 -8025, Impact Factor: 1.532 (**SCI Indexed**) (**Co-author**)
22. Eugene Peter, **T D Subash**, T D Subha & Alsufiyan Nazim, 2020 “Utilizing Radiant Nanoparticles in Silicon for Balanced White Color Adapters”, *Journal of Silicon* (**Springer**), vol.11, no.5, pp. 00633 - 00639, ISSN: 1876-990X, Impact Factor: 1.499 (**SCI Indexed**) (**Corresponding author**)
23. Bibin Vincent, Aswathy S U, **T D Subash** & T D Subha, 2020, “A Novel Approach to White Light Radiation From Silicon Based Tunnel Junction LEDs”, *Journal of Silicon* (**Springer**), vol.10, no.4, pp. 00671 - 00682, ISSN: 1876-990X, Impact Factor: 1.499 (**SCI Indexed**) (**Corresponding author**)
24. S. Perumal Sankar, **T D Subash**, N. Vishwanath & Deepa Elizabeth Geroje, 2020, “Security Improvement in Block Chain Technique enabled Peer to Peer Network”, *Peer-to-Peer Networking and Applications* (**Springer**), vol.10, no.3, pp. 00971-00982, ISSN: 1936-6450, Impact Factor: 2.793 (**SCI Indexed**) (**Co-author**)
25. Rittam Dutta, **Subash, T D** & Nitai Paitya, 2020, “InAs/Si Hetero-junction channel to enhance the performance of DG-TFET with Graphene Nanoribbon: An Analytical Model”, *Journal of Silicon* (**Springer**), vol.37, no.8, pp. 062201-1-062201-7, ISSN: 1876-990X, Impact Factor: 1.499 (**SCI Indexed**) (**Co-author**)
26. Rittam Dutta, Nitai Paitya & **Subash, T D**, 2020, “Electric field and Surface Potential Analytical Modeling of Novel Double Gate Triple Material PiN Tunneling Graphene Nano Ribbon FET (DG-TM-PiN-TGNFET)”, *Journal of Silicon* (**Springer**), vol.37, no.6, pp. 042201-1-042201-7, ISSN: 1876-990X, Impact Factor: 1.499 (**SCI Indexed**) (**Co-author**)

27. Ajayan, J, Nirmal D, Dheena Kurian, Mohankumar P, Arivazhagan L, Augustine Fletcher AS, **Subash, T D** & Saravanan M, 2019, "Investigation of Impact of Gate Underlap/Overlap on the Analog/RF Performance of Composite Channel Double Gate MOSFETs", *Journal of Vacuum Science & Technology B, (AIP)*, vol.37, no.6, pp. 062201-1-062201-7, ISSN:2166-2746, Impact Factor: 1.56 **(SCI Indexed) (Co-author)**
28. Ajayan, J, **Subash, T D** & Dheena Kurian, 2017, "20nm High Performance Novel MOSHEMT on InP Substrate For Future High speed low power Applications", *Superlattices and Microstructures (Elsevier)*, vol.109, no.1, pp. 183 - 193, ISSN:0749-6036, Impact Factor: 2.117 **(SCI Indexed) (Co-author)**
29. **Subash, T D**, Gnanasekaran, T & Freeda, M, 2016, "Synthesis of ZrO₂ Nanoparticle and Design of HEMT Devices", *Integrated Ferroelectrics (Taylor & Francis)*, vol.176, no.1, pp. 132-139, ISSN:1058-4587, Impact Factor: 0.357 **(SCI Indexed) (First & Corresponding author)**
30. **T D Subash**, T.Gnanasekaran, C.Divya & J.Jagannathan, 2014, "Design and Simulated Characteristics of Nanosized InSb Based Heterostructure Devices", *Journal of Advances in Material Science and Engineering, (Wiley)*, vol.1, no.1, pp. 1-8, ISSN: 1687-8434 Impact Factor - 0.897 **(SCI Indexed) (First & Corresponding author)**

I. Guest Editor/Book Chapter Published:

1. **Guest Editor: T.D. Subash**, Bikash Nakarmi & J. Ajayan - Title of Book: **Laser and its Applications to Digital Photonics and Microwave Photonics**, Publisher: CRC Press Taylor & Francis Group, SCOPUS indexed (2026). Publication date: 11th November, 2026, ISSN: 9781041093237, <https://www.tgjonsonline.co.uk/Product/T-D-Subash/Laser-and-its-Applications-to-Digital-Photonics-and-Microwave-Photonics/16092227>
2. **Book Chapter Edited: C.B.M Rashidi¹, K.N.F. Ku Azir, A.J. Rupok, T. D. Subash, Md. Shamim Ahsan** "Optimizing Flexible Cross Correlation (FCC) Code in SAC-OCDMA Networks: An Interference Alleviation Approach", in book: **Laser and its Applications to Digital Photonics and Microwave Photonics**, Publisher: CRC Press Taylor & Francis Group, SCOPUS indexed (2026). Publication date: 11th November, 2026, ISSN: 9781041093237, <https://www.tgjonsonline.co.uk/Product/T-D-Subash/Laser-and-its-Applications-to-Digital-Photonics-and-Microwave-Photonics/16092227>
3. **Guest Editor: T.D. Subash**, J. Ajayan & Leong Wai Yie - Title of Book: **Perovskite Solar Cell**, Publisher: CRC Press Taylor & Francis Group, SCOPUS indexed (2025). Published on 27th

August, 2025, ISSN: 9781032763132 Website link:
https://www.routledge.com/Perovskite-Solar-Cells/Subash-Ajayan-Yie/p/book/9781032763132?srsId=AfmBOoriLlu403cTk5HJo7vb08Q6Cckwat7-xWWWBc_SjLlpPaAO7GEI

4. **Guest Editor: T.D. Subash**, J. Ajayan & Wladek Grabinski - Title of Book: **Organic and Inorganic Light Emitting Diodes: Reliability Issues and Performance Enhancement**, Publisher: CRC Press Taylor & Francis Group, SCOPUS indexed (2023). Published on 19th June 2023, ISSN: 9781003340577 Website link: <https://doi.org/10.1201/9781003340577>
5. **Book Chapter Edited: J. Ajayan & T.D. Subash**, "Efficiency Enhancement Techniques in Flexible and Organic Light-Emitting Diode", In book: Organic and Inorganic Light Emitting Diodes (pp.133-160) DOI:[10.1201/9781003340577-7](https://doi.org/10.1201/9781003340577-7), Published on 19th June 2023, Website link: <https://www.taylorfrancis.com/chapters/edit/10.1201/9781003340577-7/efficiency-enhancement-techniques-flexible-organic-light-emitting-diodes-ajayan-subash>
6. **Guest Editor** – Seemesh Bhaskar, Deepshikha Arora, Sabyasachi Chakraborty, **T. D. Subash** & Swasti Bhatia – **Special Issue "Photon-Driven Technologies: Exploring the Latest Advancements"** Journal Micromachines published by MDPI https://www.mdpi.com/journal/micromachines/special_issues/0BVDSAMWTJ (2023)
7. **Guest Editor:** Special Issue on Frontiers in Nano Electronics, International Journal of High Speed Electronics and Systems, 2022 <https://www.worldscientific.com/page/ijhses/callforpapers02>
8. **Editor–IEEE5NANO2022:Proceedings**, DOI: <https://doi.org/10.1109/5NANO53044.2022>, <https://ieeexplore.ieee.org/xpl/conhome/9828864/proceeding>
9. **Editor – IEEE 5NANO2021:Proceedings**, DOI: <https://ieeexplore.ieee.org/xpl/conhome/9491110/proceeding>
10. **Editor - Materialstoday: Proceedings (Elsevier)**, Vol.43, Issue.P6(2021), pp. 3325-3960, ISSN:2214-7853 <https://www.sciencedirect.com/journal/materials-today-proceedings/vol/43/part/P6>
11. **Editor - Materialstoday:Proceedings (Elsevier)**, Vol.24, Issue.P3(2020), pp. 2101-2298, ISSN:2214-7853 <https://www.sciencedirect.com/journal/materials-today-proceedings/vol/24/part/P3>

12. **Editor - Materialstoday:Proceedings (Elsevier)**, Vol. 24, Issue.P4 (2020), pp. 1723-1947, ISSN: 2214 - 7853 <https://www.sciencedirect.com/journal/materials-today-proceedings/vol/24/part/P4>
13. **Editor - Materialstoday:Proceedings (Elsevier)**, Vol.11, Issue.P3(2019), pp.4137-4308, ISSN:2214-7853 <https://www.sciencedirect.com/journal/materials-today-proceedings/vol/11/part/P3>
14. **Editor - Materialstoday:Proceedings (Elsevier)**, Vol.4, Issue.2PB(2017), pp.889-1152,ISSN:2214-7853 <https://www.sciencedirect.com/journal/materials-today-proceedings/vol/4/issue/2/part/PB>
15. **Editor – IEEE2013 IEEE International Conference ON Emerging Trends in Computing, Communication and Nanotechnology (ICECCN)** <https://ieeexplore.ieee.org/xpl/conhome/6522357/proceeding>

J. Papers Published in International Conferences:

1. Sun Zhijie, Sun Zhijie, Niraj Tamrakar, Gong Yuxuan, **Subash T D**, Pan Shilong & Bikash Nakarmi, "Time-Frequency Attention Network for Interference Mitigation in FMCW Radar" 2026 International Conference on ICT and Photonics (ICTP) held on 11th - 14th February 2026 hosted by IEEE Photonics Society at Kathmandu, Nepal <https://ieeexplore.ieee.org/document/11485060/>
2. Subha T D , **Subash T D**, Suresh T & Shakunthala M, "Artificial Intelligence and Machine Learning-Enabled Framework for Predictive Optimization and Performance Enhancement of Fiber-Optic Photonic Sensors" 2026 International Conference on ICT and Photonics (ICTP) held on 11th - 14th February 2026 hosted by IEEE Photonics Society at Kathmandu, Nepal <https://ieeexplore.ieee.org/document/11485385/>
3. Sun Zhijie, S M Rezwanul Islam, **T D Subash**, Pankaj Raj Dawadi, Mohd Rashidi Che Beson, Pan Shilong & Bikash Nakarmi, "Implementing Bidirectional LSTM Recurrent Neural Network for Addressing Multi-interference in a Photonics-based Radar System" IEEE Photonics Conference (IPC 2025) held on 9th - 13th November 2025 hosted by IEEE Photonics Society at Resorts World Sentosa, Singapore <https://ieeexplore.ieee.org/document/11282145>
4. S M Rezwanul Islam, Sun Zhijie, Sudan Jha, **T D Subash**, Mohd Rashidi Che Beson, Pan Shilong & Bikash Nakarmi, "Interference Identification and Mitigation Using selective spectral filtering in a photonics radar system" IEEE Photonics Conference (IPC 2025) held

on 9th - 13th November 2025 hosted by IEEE Photonics Society at Resorts World Sentosa, Singapore <https://ieeexplore.ieee.org/document/11281886>

5. Jeepa K J, Rajeesh J, **T D Subash**, Akshara Babu, Abhijith M, Akhila Raj & Chinchu Anna Varkey, "Analyzing the Performance of CZTGS/CZTS Tandem Solar Cell Theoretically using SCAPS- 1D" in the International Conference on Recent Innovations and Trends in Electrical & Electronics Engineering and Computing hosted by National Institute of Technology, Patna, India held on 22nd & 23rd May 2025. Accepted for the publication Springer Series – Lecture Notes in Electrical Engineering
6. Praisy Mizpah Julia Bestus, Titus Issac, J. Sebastian Terence & **T D Subash**, "Investigation of Grey Wolf Algorithm for Solving Heterogeneous Unmanned Aerial Vehicle Task Assignment Problem" in the "2024 IEEE International Conference on Advances in Modern Age Technologies for Health and Engineering Science (AMATHE 2024)" hosted by PES Institute of Technology and Management (PESITM), Shivamogga, Karnataka, India on 9th – 10th May, 2024 DOI: 10.1109/AMATHE61652.2024.10582232 <https://ieeexplore.ieee.org/document/10582232/authors#authors>
7. Eugene Peter, **T. D. Subash** & Veena R, "Investigation of Efficiency Enhancement in Tunnel Junction GaN Light Emitting Diodes" Proceedings of DST-SERB Sponsored 2022 IEEE International Conference on Nanoelectronics, Nanophotonics, Nanomaterials, Nanobioscience & Nanotechnology (5NANO2022) technically co-sponsored by IEEE Photonics Society, USA organized by IEEE Photonics Society Student Chapter Mangalam College of Engineering, Kottayam, Kerala, India held on 28th & 29th April, 2022. <https://ieeexplore.ieee.org/document/9828893>
8. **T.D.Subash**, T.Gnanasekaran, A.Karpagaselvi, R.Kavitha, "Low Power Consumption of Sequential Circuit of Digital ICs", proceedings of *Second International Conference on Devices, Circuits and Systems (ICDCS'14)* Organised by Department of Electronics and Communication Engineering, Karunya University, Coimbatore, India on 6-8th March, 2014, pp-411-415. (<http://ieeexplore.ieee.org/document/6926184/>)
9. **T.D.Subash**, T.Gnanasekaran, D.Nirmal, A.Johnson, "Modelling and Investigation of III-V Compound Semiconductor based HEMT's for High Performance Applications", proceedings of *Second International Conference on Devices, Circuits and Systems (ICDCS'14)* Organised by Department of Electronics and Communication Engineering, Karunya University, Coimbatore, India on 6-8th March, 2014, pp-128-131. (<http://ieeexplore.ieee.org/document/6926123/>)

10. Ajayan J, **T.D.Subash**, T.Gnanasekaran, Mohankumar.N, “Study on 25nm symmetric extended Source/Drain Schottky Tunneling Transistors ”, proceedings of *2013 IEEE International conference on Emerging Trends in Computing, Communication and Nanotechnology (ICECCN 2013)* Organized by Infant Jesus College of Engineering and Technology, Tuticorin, India on 25-26th March, 2013, ISBN-978-1-4673-5036-5,pp-8-12. (<http://ieeexplore.ieee.org/document/6528485/>)
11. Ajayan J, **T.D.Subash**, T.Gnanasekaran, Mohankumar .N , “Study of Effects of High-K Dielectrics in Schottky Tunneling Source MOSFETs”, proceedings of *IEEE - International Multi Conference on Automation, Computing, Control, Communication and Compressed Sensing – 2013* held at St.Josephs College of Engineering and Technology, Kottayam, Kerala, India on 22-23rd March, 2013. (<http://ieeexplore.ieee.org/document/6526458/>)
12. **T.D.Subash**, C.Divya, “Double Hash Function Scheme In Wireless Sensor Networks”, proceedings of *IEEE World Congress on Information and Communication Technologies (WICT 2011)*, jointly organised by university of Mumbai and Machine Intelligence Research(MIR) Labs, USA held at University of Mumbai, Mumbai, India on 11-14th December, 2011. On page(s): 88 - 92 (<http://ieeexplore.ieee.org/document/6141223/>)
13. **T.D.Subash**, C.Divya, “Novel Key Pre-distribution in Wireless Sensor Network”, proceedings of *IEEE International Conference on Emerging Trends in Electrical and Computer Technology*, held at St.Xaviers Catholic College Of Engineering, Nagercoil, Tamilnadu, India, Issue Date:23-24th March 2011, On page(s): 959 - 963, ISBN: 978-1-4244-7923-8, (<http://ieeexplore.ieee.org/document/5760258/>)

Declaration:

I declare that the details furnished above are true to the best of my knowledge and belief.

Place: Zhoushan

Date :

(Dr.T.D.SUBASH)

References:

1. **Dr. Manpreet Singh Manna**
Former Vice Chancellor, Chandigarh University
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