

PROFILE

Name	Dr Karthik P
Position & Affiliation	Professor, Department of ISE
Areas of Interest	Acoustic Sensors, Image Processing, Embedded Systems, Mobile Computing, Machine Learning
Email	karthik.ise@cambridge.edu.in
LinkedIn ID	https://www.linkedin.com/in/karthik-palani-bb045a36/
Google Scholar ID	https://scholar.google.com/citations?view_op=list_works&hl=en&user=OfiB_KMAAAAJ
Orchid ID	https://orcid.org/0000-0003-4575-532X
Vidwan ID	https://vidwan.inflibnet.ac.in/profile/564396
Scopus ID	https://www.scopus.com/authid/detail.uri?authorId=37021328100
Professional Webpage (if any)	

Educational Qualifications:

Ph.D	Dr M G R University	India	2013
M.E	Sathyabama University	India	2006
B.E	Sapthagiri College of Engineering, Periyar University	India	2004

Areas of Research:

Computer Networking Protocols, Mobile Communications, Vehicular Networks, Wireless Sensor Networks, SONAR Image Processing, Image Processing, Artificial Intelligence, Machine Learning and Deep learning

Brief Profile: (write about yourself)

Dr. Karthik P, working as a Professor in the ISE department, boasts a broad spectrum of academic interests that encompass Microwave Engineering, Acoustic Sensors, Mobile Communication, Wireless Networks, Communication Systems, Data Science, Cryptography and Network Security, Operating Systems, Distributed Systems, Mobile Computing, and Machine Learning. His academic journey began with a Bachelor's degree in Electronics and Communication Engineering from the Periyar University Salem in May 2004, followed by a Master's degree in Applied Electronics from Sathyabama Deemed University, Chennai, in June 2006. He attained his Ph.D. from Dr.M.G.R Deemed University, Chennai, in March 2013. With an impressive 18 years of teaching experience in the field of engineering education, he also boasts 9 years of post-doctoral research expertise.

He has demonstrated his commitment to research and education by establishing research labs and guiding both undergraduate and postgraduate students in developing interdisciplinary projects as a research coordinator. His contributions to the academic community extend to numerous research articles published in

various national and international journals. He is an active member of professional organizations including IEEE (Senior Grade), ISTE, IE(I), IAENG and ACM. He has further enriched his academic portfolio by delivering numerous guest lectures, participating in workshops, organizing Faculty Development Programs (FDPs), and actively engaging in seminars, national and international conferences, and symposiums. (As of August 2024).

Add about setting up labs and consultancy (if any): Acoustic Lab Setup Underprocess

Guiding students at various levels (BE-7, MTech -0 and PhD-13)

Awards/Achievements/Others: NIL

Courses Taught:

Network Analysis, Electromagnetic and Wave Theory, Operating Systems, Machine Learning, Computer Networks, Multimedia Communication, Real-Time Systems, Microwave and Theory, Digital Communications, Image Processing, Digital Design and Computer Organization,

Publications/Patents:

Publications	<p><u>Papers Published in International Journals</u></p>
	<ul style="list-style-type: none"> • P. Karthik and Dr. S. Ravi : “Hardware-Software Partitioning Technique using Dataflow Extraction for Embedded Systems”, World Journal of Science and Technology, Vol. 1, Issue 8, pp. 48 – 54, October – 2011. • P. Karthik and Dr.S.Ravi: “Integrated Hardware / Software Partitioning and Scheduling Strategy to Assist Decoupled Information Flow Tracking” CiiT International Journal of Artificial Intelligent Systems and Machine Learning, Vol.4, Issue 3, pp. 141 – 147, March - 2012. (Scopus – Q4). • P. Karthik, Dr. S. Ravi, Dr. FathimaJabeen, Mr. M. Anand and Mr. A. Vinoth Kumar: “Optimal Scheme for Hardware/Software Partitioning with semaphore” European Journal of Scientific Research, Vol. 74, Issue. 2, pp. 217 – 230, April 2012. (Scopus– Q4). • S.P. Anandaraj, Dr.S. Ravi and P. Karthik: “Semaphore Based Programmable Security Policies Using Slotted Time Communication”, European Journal of Scientific Research, Vol. 83, Issue. 3, pp. 439 – 446, August 2012. (Scopus– Q4). • P. Karthik, Ravikiran B.A et.al: “Parallel Processing For Using a Shared Memory in A Network with the Help of Context Switching Semaphore Using Sel-Healing Approach”, International Journal of Applied Engineering Research, Vol.10, Issue 12, pp. 30371 – 30392, July 2015 (Scopus– Q4). • Vishnu, P.Karthik and Fathima Jabeen: “VLSI Design and Implementation of Efficient Software Defined Radio using Optimized Quadrature Direct Digital

Frequency Synthesizer on FPGA”, **Elsevier Procedia Computer Science**, Vol 58, PP. 414 – 421, August 2015 (**Scopus– Q3**)

- Joshua Daniel Raj and **P. Karthik**: “Data Centric Security in FPGA Based Data Center Using Attribute Based Encryption”, *International Journal of Advance Research in Science and Engineering*, Vol. 6, Issue, 8, pp. 1481-1488, August 2017.
- **P. Karthik et al.**, “A Survey on Applications and Challenges of Underwater Wireless Sensor Node”, *International Journal of Engineering Trends and Technology*, Vol. 41, Issue. 4, pp. 201-204, November 2016.
- Vidhya Rand **Karthik P**: “Edge Analytics for QoE Using ZIPF’s Distribution”, *Publication in the International Journal of Pure Applied Mathematics*, Vol. 118, Issue 14, PP. 85-99 2018. (**Scopus– Q4**).
- Shanthala G M and P. Karthik: “Design and Implementation of Scan Flipflop for Processor Using QCA Technology”, *Published in the Journal of Control and Automation*, Vol. 14, Issue 8, PP. 41- 48, 2017. (**Scopus– Q4**).
- **P. Karthik** and Deepak M D: “Compressed Sensing Magnetic Resonance Imaging-A Review” *Published in the Intentional Journal of Pure and Applied Mathematics*, Vol. 119, Issue.14, 2018. (**Scopus– Q4**).
- P. Karthik and Vijayakumar A N: “A Theoretical Approach for Smart Grid Optimization of Distributed Generation and Control in Micro Grids”, *Published in the Intentional Journal of Pure and Applied Mathematics*, Vol. 119, Issue.14, 2018. (**Scopus– Q4**).
- **P. Karthik, J Joshua Daniel Raj**: “Access Structures Used For The Implementation Of Attribute Based Encryption: A Survey”, *Published in the Intentional Journal of Pure and Applied Mathematics*, Vol. 119, Issue.14, 2018. (**Scopus– Q4**).
- **P. Karthik, M. Lakshminaryana**: “Optimized Framework For Face Expression Recognition Form Human Emotions By Using H-Svm Classifier”, *Published in the Intentional Journal of Pure and Applied Mathematics*, Vol. 119, Issue.14, 2018. (**Scopus– Q4**).
- **P. KARTHIK, RAVIKUMAR H C**: “A Theoretical Approach On Detection And Recognition Of Text In Complex Images And Video Frames”, *Published in the Intentional Journal of Pure and Applied Mathematics*, Vol. 119, Issue.14, 2018. (**Scopus– Q4**).
- J. Joshua Daniel Raj and **Karthik P**: “Simplified Ciphertext Policy Attribute Based Encryption for Secured Multimedia Communications”, *published in Elsevier Computer Science Procedia* 2020. (**Scopus– Q3**).
- Deepak M D, **Karthik P**: “Reconstruction of MR Images using Sparse Signal Sequences in Frequency Domain” *published in the International Journal of Innovative Technology and Exploring Engineering*, Vol. 9, Issue 3, pp. 895-902,

January 2020. ISSN:2278-3075 (**UGC Care & Scopus– Q4**).

- Ravikumar H C and **Karthik P**: “Image De-Blurring Based on Constraint Conditional Model”, published in the International Journal of Innovative Technology and Exploring Engineering, Vol. 9, Issue 3, pp. 995-1000, January 2020. ISSN:2278-3075 (**Scopus– Q4**).
- Vidhya R and **Karthik P**: “Anticipatory QoE Mechanisms in 5G Radio Intelligent Controller”, published in International Journal of Recent Technology and Engineering, Vol. 8, Issue 5, pp. 2509-2513, January 2020. ISSN: 2277-3878. (**UGC Care & Scopus– Q4**).
- Manu D K and **Karthik P**: “Enhancement of Hydrophone Sensitivity by varying Mandrel Parameters for Detection of Acoustic Waves in Underwater Environment”, published in Journal of Intelligent & Fuzzy Systems, Vol.38, Issue. 5, pp. 6377-6382, June 2020. ISSN: 1875-8967/ 1064-1246. (**Web of Science, Science Citation Index and Scopus– Q3**)
- Manu D K and **Karthik P**: “Design and Development of AUV for Data Acquisition and Image Enhancement”, published in International Journal of Engineering and Advanced Technology, Vol. 9, Issue 4, pp. 2088-2093, April 2020. (**UGC Care & Scopus– Q4**).
- Manu D K and **Karthik P**: “Development of Novel Optical Fiber Hydrophone Sensor for Marine Applications”, published in International Journal of Innovative Technology and Exploring Engineering, Vol. 9, Issue 7, pp. 616-619, May 2020. (**UGC Care & Scopus– Q4**).
- Ravikumar H C and **Karthik P**: “Optimized and Efficient Deblurring Through Constraint Conditional Modeling”, published in Indonesian Journal of Electrical Engineering and Computer Science, Vol. 21, No.3, March 2021, pp. 1503-1512. (**Scopus– Q3**)
- Deepak M D and **Karthik P**: “Sparse and Incomplete Signal Dictionaries for Reconstruction of MR Images”, published in International Electrical and Computer Engineering Systems, Vol. 13, No. 3, pp. 165-174, 2022. ISSN: 1847-7003 (**Web of Science, Science Citation Index and Scopus Q3**).
- Deepak M D and **Karthik P**: “Comparison of Different Sparse Dictionaries for Compressive Sampling”, published in Bulletin of Electrical Engineering and Informatics, Vol. 11, No. 5, pp. 2611-2620, October 2022. ISSN: 2302-9285 (**Scopus – Q3**).
- Vijayakumar A N and **Karthik P**: “Optimizing The Utilization of Renewable Energy Resources in Smart Grids Using Deep Learning”, Published in Journal of Data Acquisition and Processing, Vol. 38, No. 1, pp. 4269-4281, 2023 (**Scopus– Q4**).
- Ravikumar H C and **Karthik P**: “Customized Mask Region Based Convolutional Neural Networks for Un-Uniformed Shape Tect Detection and Text Recognition” Published in Internatinal Journal of Electrical and Computer

Engineering, Vol. 13, No. 1, pp.413-424, 2023 (**Scopus – Q2**).

- Vijayakumar A N and **Karthik P**: “Autonomous Decision Making System for the Utilization of Renewable Energy Resources in Smart Grids Using Deep Learning”, Published in Journal of Data Acquisition and Processing, Vol. 38, No. 3, pp. 456-467, 2023 (**Scopus– Q4**).
- Sahana Salagare and **Karthik P**: “Development of Renewable Energy System for Low Power Underwater Devices”, Published in Indonesian Journal of Electrical Engineering and Computer Science, Vol. 31, No.1, pp. 68-76, 2023 (**Scopus Q3**).
- Deepak M D and **Karthik P**: “Analysis of Sparse Signal Sequences under Comprehensive Sampling Techniques for Different Measurement Matrices”, Published in Recent Advances in Electrical & Electronic Engineering, Vol.16, No.1, pp. 472-485, 2023 (**Web of Science, Science Citation Index, Scopus – Q4**).
- Sahana Salagare, Sudha P N and Karthik P: “Sustainable energy harvesting system for low-power”, Indonesian Journal of Electrical Engineering and Computer Science, Vol 35, No 3, pp 1379-1387, September 2024. (**Scopus – Q3**)
- Saranya V, Azween Abdullah, Parthasarathy Ramadass, Saravanan Srinivasan, Basu Dev Shivahare, Sandeep Kumar Mathivanan, **Karthik P**; “Context based ranking strategies for renowned instructional methodologies”, Intelligence-Based Medicine, Volume 10, 2024,100186. (**SCOPUS – Q2**).
- Joshua Daniel Raj, J. Samson Immanuel, P. Karthik, M. Jayanthi:”Prediction of Electric Vehicle Price in India using Simple Linear Regression”, SAE Technical Papers, 2023-01-5162, 2024. (**SCOPUS – Q3**)

Papers Presented in International and National Conferences

- **P. Karthik** and Dr. S. K. Bag: “Design and development of terrain rover”At International Conference, ICSCI – 2008, under the aegis of Pentagram Research Centre, Hyderabad, India, Jan 2-5, 08.
- **P. Karthik** and Dr.S.Ravi: “Hardware-Software Partitioning Technique using Dataflow Extraction for Embedded Systems” Proceeding of International Conference on Communication, Computation, Control and Nanotechnology held at Rural Engineering College, Bhalki during 30th to 31st October 2010.
- **P. Karthik** and Dr. S. Ravi: “Compiling The Hardware for the Specific Applications Memory Access – Interconnect” Proceedings of International Conference on Controls, and System Modeling held at Manipal University, Manipal, During 19th to 22nd August 2010.
- Mallikarjun C.K and **P. Karthik**: “Designing the structure of novel sensor for acoustic sound waves byvarying the physical properties involved in different layers”, Proceedings of International Conference on Communication and Computing Published by **Elsevier**, held at Vijay Vittala Institute of Technology,

Bengaluru. During 21st to 23rd August 2014.

- Mallikarjun C.K and **P. Karthik**: “Designing a Novel Sensor with High Sensitivity Hydrophone for Acoustic Sound Waves”, Proceedings of International Conference on Communication and Computing Published by **Elsevier**, held at NitteMeenakshi Institute of Technology, Bengaluru. During 1st to 2nd August 2014.
- Vishnu, **P.Karthik** and FathimaJabeen: “VLSI Design and Implementation of Efficient Software Defined Radio using Optimized Quadrature Direct Digital Frequency Synthesizer on FPGA” Proceeding of International Conference on Visionnet published by **Elsevier**, held at SCMS College of Engineering, Kochi, Kerala. During 10th to 13th August 2015.
- T. K. Smitha, B. A. Ravikiran, **P. Karthik**, T. K. Mondal: “Design and Implementation of Control of Solid State Relay Switches using MSP 430 for Instantaneous High Current Supply” in IEEE International Conference on Green Computing and Internet of Things, published by **IEEE CPS**, held at Galgotias College of Engineering and Technology, Noida, During 8th – 10th October 2015.
- Vishnu, **P.Karthik** and FathimaJabeen: “Implementation of Optimized QDDFS on FPGA for Software Defined Radio”, **IEEE INDICON** 2015, published by IEEE CPS, held at JamiaMilliaIslamia University, New Delhi, During 17th – 20th December 2015.
- Vidhya R. and **P.Karthik**: “Dynamic Carrier Aggregation in 5G network scenario”, in International Conference on Computing and Network Communications (CoCoNet'15), Published by **IEEE CPS**, the conference is hosted at Indian Institute of Information Technoogy and Management, Thiruvandrum, Kerala, During 16th – 19th December 2015.
- **Karthik P**, Muthu Kumar. B, Suresh K, Sindhu I.M, Goplakrishnamurthy C.R “**IEEE** Design and Implementation of Helmet to Track the Accident Zone and Recovery using GPS and GSM” International Conference on Advanced Communication Control and Computing Technologies, ISBN 978-1-4673-9544-1, held at Syed Ammal Engineering and College, Ramanathapuram, pp 857-861, 24th – 26th May, 2016.
- **Karthik P**, Muthu Kumar. B, Ravikiran B.A, Suresh K, Glenson Toney “Implementation of Visible Light Communication(VLC) for Vehicles”, **IEEE** International Conference on Advanced Communication Control and Computing Technologies, ISBN 978-1-4673-9544-1, held at Syed Ammal Engineering and College, Ramanathapuram, pp 787-789, 24th – 26th May, 2016.
- Vidhya R and **Karthik P** “Coexistence of Cellular IOT and 4G Networks” **IEEE** International Conference on Advanced Communication Control and Computing Technologies, ISBN 978-1-4673-9544-1, held at Syed Ammal Engineering and College, Ramanathapuram, pp 654-657, 24th – 26th May, 2016.
- Tejashwini N.C and **P.Karthik**: “Design and Implementation of Adaptive Gaussian Filters for the Removal of Salt and Pepper Noise on FPGA”, **IEEE** International Conference on Electrical, Electronics, Communication, Computer

Technologies and Optimization Techniques, held at GSSS Institute of Engineering & Technology for Women, Mysuru, during 9th& 10th December 2016.

- Shanthala G M and **P. Karthik**: “Design and Implementation of Scan Flipflop for Processor Using QCA Technology”, 3rd International Conference on Green Computing and Engineering Technologies, held at Killaloe Hotel, KincoraHarbour, Killaloe, County Clare, Ireland, during 8th to 10th August 2017.
- Vidhya R and **Karthik P.**: “EDGE Analytics for QoE Using ZIPF’s Distribution”, Proceedings of 3rd International Conference on ICTACSE, held at Malla Reddy College of Engineering”, Hyderabad, during 2nd to 3rd Feb 2018.
- Muthukumar B, **P Karthik**: “Investigation On Reducing User Revocation Problem In Multi-Keyword Ranked Search Scheme Using KRNN And LSH Algorithm”, Presented a paper in an International conference on Applied Engineering Sciences and Management, held at K S SCHOOL OF ENGINEERING AND MANAGEMENT, during 12th to 13th October 2018.
- Muthukumar B, **P Karthik**: “Novel Based De-Duplicaiton System by Data Fragmentation in the Cloud”, Presented a paper in an International conference on Applied Engineering Sciences and Management, held at K S SCHOOL OF ENGINEERING AND MANAGEMENT, during 12th to 13th October 2018.
- SahanaSalagare, **P Karthik**: “Survey on Energy Harvesting Systems for Underwater Devices”, Presented a paper in an International conference on Applied Engineering Sciences and Management, held at K S SCHOOL OF ENGINEERING AND MANAGEMENT, during 12th to 13th October 2018.
- Manu D K and **Karthik P.**: “Enhancement of Hydrophone Sensitivity by varying Mandrel Parameters for Detection of Acoustic Waves in Underwater Environment” presented paper in the 5th International Symposium on Intelligent Systems Technologies and Applications (ISTA ’19) and this paper has been selected for publication in special issue of Journal of Intelligent and Fuzzy Systems, held in IIIT-K, Trivandrum, during 16th December to 21st December 2019.
- Joshua Daniel Raj J and Karthik P: “Simplified Ciphertext Policy Attribute Based Encryption for Multimedia Applications”, presented in the 3rd International Conference on Computing and Network Communications (CoCoNet’19) and this paper has been selected for publication in Elsevier Procedia Computer Science, held in IIIT-K, Trivandrum, during 16th December to 21st December 2019.
- Vidhya R and **Karthik P.**: “Anticipatory QoE Mechanisms for 5G Data Analytics”, Published in 12th International Conference on Communications Systems and Networks (**IEEE-COMSNETS**) 2020, held during 7th January to 11 January 2020 in Bengaluru, Page 523-526, 2020, ISSN: 21552509.
- Deepak M D and **Karthik P.**: “Comparative study of Feature Extraction using Different Transform Techniques in Frequency Domain” presented in international conference on Automation, Signal Processing, Instrumentation and Control, held at VIT University, Vellore, during 27th – 28th February 2020.

- Manu D K and **Karthik P**: “Development of AUV for Data Acquisition in Underwater Environment”, presented in Virtual International conference on Electronics, Computing and Communication Technologies, held IIT Bangalore, during 2nd -4th July 2020.
- Sahana Salagare; P.N.Sudha; **Karthik. P**: “Comparative Study on Requirements, Applications and Challenges of Low Power Underwater Devices”, presented in IEEE International Conference on Mobile Networks and Wireless Communication (ICMNBC) held at SIT, Tumkur, on 03rd to 4th December 2021.
- Pradeep K R and **Karthik P**: “Global Positioning System Based Wildlife Animal Tracking System”, published in 4th International Conference on Intelligent Engineering and Management (ICIEM) held on **09th to 11th May 2023** at Amity University, 24 Bedford Square, Fitzrovia, London WC 1B, 3HN, UK.
- Deepthi V and **Karthik P**: “Power Grasping and Manipulation of Complex Shaped Object using Brain Computer Interface and Visual Strategies on Robotic ARM”, presented in 6th International Conference on Advances in Electrical and Computer Technologies 2024, held at Sengunthar Engineering College (Autonomous) Tiruchengode, Tamilnadu on 26th and 27th September 2024 (Online).
- Priyanka Desai, **Karthik P**, Loganathan D, Preethi S and Bharani B R: “Different Data Cleaning Techniques and Normalization Techniques with Focus on Current Normalization Techniques: A Study”, presented in 6th International Conference on Advances in Electrical and Computer Technologies 2024, held at Sengunthar Engineering College (Autonomous) Tiruchengode, Tamilnadu on 26th and 27th September 2024 (Online).
- **P. Karthik** and P. Devi: “Vector Controlled Based Speed Control of Induction Motor Using Fuzzy Logic” and received best paper in the National Conference, Bannari Amman Institute of Tech during 26th&27th, Feb 2010.
- **P. Karthik**, Manjunath and Dr.S. Ravi: “Improved Performance of a Handset-Assisted Positioning Method Using Embedded Applications” in the National Conference, C.Abdul Hakeem College of Engg&Tech, Vellore during 5th March 2011.
- **P. Karthik**, R. Elavarasi, E. Madeshwaran and Dr. S. Ravi: “Security System for Automobile using MEMS with Embedded System Design” Proceedings of National Conference on Advances in Information and Communication Technology, C. Abdul Hakeem College of Engineering & Technology, Vellore, 5th March 2011.
- **P. Karthik**, Manjunatha A.S and Narendra Reddy N: “Sub - Threshold Voltage Operation of Digital Circuits Using Lower Energy Design” Proceedings of 3rd National Conference on Computer Vision & Communication Systems, Kathir College of Engineering, Coimbatore, 10th April 2013.
- Mallikarjun C.K and **P. Karthik**: “Designing of a Sensor Using Fiber Bragg’s Grating to Improve the Sensitivity”, Proceedings of National Conference on Communication and Signal Processing, Jothy Institute of Technology, Bangalore, 21st Feb 2014.
- Santhosh Kumar R and **P. Karthik**: “Development of High Speed AES system for Efficient Data Encryption System on FPGA”, Proceedings of 2nd National

	<p>Conference on Communication, VLSI Signal Processing, K.S.School of Engineering & Management, Bangalore, 15th May 2014.</p> <ul style="list-style-type: none"> • Ravikiran B.R and P. Karthik: “Construction of a Solar Tracker and Implementing of the Charging System for a Robotic Vehicle”, Proceedings of 2nd National Conference on Communication, VLSI Signal Processing, K.S.School of Engineering & Management, Bangalore, 15th May 2014. • Vishnu and P. Karthik: “ VLSI Design of Power Efficient Flip-Flops using MTCMOS Technique”, Proceedings of 2nd National Conference on Communication, VLSI Signal Processing, K.S.School of Engineering & Management, Bangalore, 15th May 2014. • Vishnu and P. Karthik: “VLSI Design and Implementation of Efficient Software Defined Radio using Optimized Quadrature Direct Digital Frequency Synthesizer on FPGA” Proceedings of 3rdNational Conference on Communication, VLSI Signal Processing, K.S.School of Engineering & Management, Bangalore, 30th April 2015. • Smitha T K, Ravikiran B.A and P. Karthik: “Implementation of Control of Solid State Relay Switches using MSP 430 for Instantaneous High Current Supply”, Proceedings of 3rdNational Conference on Communication, VLSI Signal Processing, K.S.School of Engineering & Management, Bangalore, 30th April 2015. • Keerthikumar B.M and P. Karthik: “Implementation of Visible Light Communication for Vehicles”, Proceedings of 3rdNational Conference on Communication, VLSI Signal Processing, K.S.School of Engineering & Management, Bangalore, 30th April 2015. • Tejashwini N.C and P.Karthik: “Design and Implementation of Adaptive Gaussian Filters for the Removal of Salt and Pepper Noise on FPGA”, Proceedings of 4th National Conference on Communication, VLSI Signal Processing, K.S.School of Engineering & Management, Bangalore, 28th April 2016. • Vidhya R and Karthik P.,”Survey on Standalone Architecture for Cellular IOT”, Proceedings of 3rd Conclave, Conference & Innovation Competition, Advanced Communication Control and Computing Technologies, ISBN 819070985-2, held at IIT Delhi, New Delhi, held on 24th June 2017. • Joshua Daniel Raj and Karthik P., “A Proposed Novel Designing of Data Centric Security in FPGA Based Data Centers”, Proceedings of 3rd Conclave, Conference & Innovation Competition, Advanced Communication Control and Computing Technologies, ISBN 819070985-2, held at IIT Delhi, New Delhi, held on 24th June 2017. • Bhanupriya C, Karthik P: “Password Authentication using Brain Signals”, National Conference held at KSIT, from 21-06-22 to 22-06-22. • Maru Aswini, Dhanush K, Kaveri B, Karthik P: “Implementation of Brain Controlled Miniature Wheelchair, National Conference held at KSIT, from 21-06-22 to 22-06-22.
Patents	<p style="text-align: center;"><u>Patent filed and published</u></p> <p>Design Patent 1: Issed, “Intelligent Gesture Controlled Wireless Wheelchair”, Design No. 409177-001, 29-02-2024.</p>

	<p style="text-align: center;"><u>@ Cambridge Institute of Technology</u></p> <p>Filed a Patent1- Filed - Application Number 202441049503 / 27/06/2024 – Machine Learning Approaches for Rainfall Prediction and Crop Health Management in Intelligent Agriculture, TEMP/E-1/157552/2024-CHE</p>
Book/Book Chapters	NIL