

Publication Highlights

Publications	42	Book Chapter - 05
		Journal Publications - 32
		Conference Proceedings - 05
Citations	996 (as per Scholar. Google)	
h-index	18	
i₁₀-index	22	

Patents

1. **Uvanesh Kasiviswanathan**, Sanjeev Kumar Mahto, Neeraj Sharma, Satyabrata Jit, Ajay Kumar Sahi, Chandan Kumar: “*A method for fabrication of a biosensing device and a product thereof*” **Indian Patent Application No.: 202411057617**, Journal No: 25/2025, Publication date: 20/06/2025, part I, page no: 59560 (**Status: Published Online on 20-06-2025**).
2. Tuhin Subhra Santra, Hima Harshan P, Kavitha Illath, Srabani Kar, **Uvanesh Kasiviswanathan**: “*Gold Nanorods-PDMS hybrid micro-pyramidal array for light-activated intracellular delivery.*” **Indian Patent Application No.: 202441016898**, Journal No: 12/2024, Publication date: 22/03/2024, part I, page no: 29650 (**Status: granted with a Patent no. 558476 and Patent Letter has been issued on January 22, 2025**).
3. Hima Harshan P, Donia Dominic, Srabani Kar, Ashwini Uma Surendra Shinde, Kavitha Illath, **Uvanesh Kasiviswanathan**, Tuhin Subhra Santra: “*A Microtip Device and Method for Intracellular Delivery of Biomolecules.*” **Indian Patent Application No.: 202341020417**, Journal No: 15/2023, Publication date: 14/04/2023, part II – designs, page no: 31744 (**Status: granted with a Patent no. 563316 and Patent Letter has been issued on March 24, 2025**).
4. **Uvanesh Kasiviswanathan**, Neeraj Sharma, Sanjeev Kumar Mahto, Satyabrata Jit, Chandan Kumar, Suruchi Poddar: “*Extended Larger Area Heterojunction Based Bio-Sensing Device.*” **Indian Patent Application No.: 202011014307**, Journal No: 41/2021, Publication date: 08/10/2021, part 1, page no: 204 (**Status: granted with a Patent no. 523737 and Patent Letter has been issued on March 12, 2024**).

Book Chapters

1. **Uvanesh Kasiviswanathan** and Neeraj Sharma: *Importance of Bio-signal for Rehabilitative Engineering*. Biomedical Engineering and its Applications in Healthcare. Editor: Sudip Paul; 11/2019: chapter 19: pages 453-469; Springer Nature., ISBN: 9789811337055, DOI: [10.1007/978-981-13-3705-5_19](https://doi.org/10.1007/978-981-13-3705-5_19)
2. **Uvanesh Kasiviswanathan**, Abhishek Kushwaha and Shiru Sharma: *Development of human speech signal based intelligent human-computer interface for driving a wheelchair in enhancing the quality-of-life of the persons*. Intelligent Systems for Healthcare Management and Delivery. Editor: Nardjes Bouchemal; 11/2018: chapter 02: pages 21-60; IGI-Global., ISBN: 9781522570714, DOI: [10.4018/978-1-5225-7071-4.ch002](https://doi.org/10.4018/978-1-5225-7071-4.ch002)
3. **Uvanesh Kasiviswanathan**, Suraj Kumar Nayak, Sai Sateesh Sagiri, Indranil Banerjee, Sirsendu Sekhar Ray, Kunal Pal: *Effect of Non-Ionic Hydrophilic and Hydrophobic Surfactants on the Properties on the Stearate Oleogels: A Comparative Study*. Nutraceuticals and Innovative Food Products for Healthy Living and Preventive Care, 2018 edited by Amit Verma, Kajal Srivastava, Shivom Singh, Hukum Singh, 11/2017: chapter 12: pages 260-279; IGI-Global., ISBN: 9781522529705, DOI: [10.4018/978-1-5225-2970-5.ch012](https://doi.org/10.4018/978-1-5225-2970-5.ch012)
4. **Uvanesh K.**, Suraj Kumar Nayak, Biswajeet Champaty, Goutam Thakur, Biswajit Mohapatra, D. N. Tibarewala, Kunal Pal: *Classification of Surface Electromyogram Signals Acquired from the Forearm of a Healthy Volunteer*. Classification and Clustering in Biomedical Signal Processing, Edited by Nilanjan Dey, Amira Ashour, 04/2016: chapter 13: pages 315 - 333; IGI Global., ISBN: 9781522501404, DOI: [10.4018/978-1-5225-0140-4.ch013](https://doi.org/10.4018/978-1-5225-0140-4.ch013)
5. **Uvanesh K.**, Suraj Kumar Nayak, Biswajeet Champaty, Goutam Thakur, Biswajit Mohapatra, DN Tibarewala, Kunal Pal: *Development of a Surface EMG - Based Control System for Controlling Assistive Devices: A Study on Robotic Vehicle*. Classification and Clustering in Biomedical Signal Processing, Edited by Nilanjan Dey, Amira Ashour, 04/2016: chapter 14: pages 335 - 355; IGI Global., ISBN: 9781522501404, DOI: [10.4018/978-1-5225-0140-4.ch014](https://doi.org/10.4018/978-1-5225-0140-4.ch014)

Journal Publications

1. Sajal Kumar Babu Degala, Munendra Singh, Ravi Prakash Tewari, Pankaj Karma, Ramesh Pandey and **Uvanesh Kasiviswanathan**: “*Dual-Task Network with Attention-Guided U-Net and Gradient-Based Adaptive Weighting Optimization for Fetal Ultrasound Plane Classification and Biometric Measurement (DTNAU-Net)*”. Expert System with Applications, vol. 318, p. 132017, 2026, DOI: [10.1016/j.eswa.2026.132017](https://doi.org/10.1016/j.eswa.2026.132017). (Corresponding author). ISSN 1873-6793; **IF 9.4; SCImagojr Q1**;
2. Lucky Agarwal, Ajay Kumar Dwivedi, Tulika Bajpai, **Uvanesh Kasiviswanathan**, Swetha Tripathi: “*MXenes as a tool to control p-type conductivity in ZnO thin film*”, IEEE Transactions on Semiconductor Manufacturing, vol. 38, no. 3, pp. 588-595, DOI: [10.1109/TSM.2025.3575857](https://doi.org/10.1109/TSM.2025.3575857); ISSN 0894-6507; **IF 2.5; SCImagojr Q3**;
3. **Uvanesh Kasiviswanathan**, Lucky Agarwal, Chandhan Kumar, Ajay Kumar Dwivedi, Swetha Tripathi: “*SnS₂ Based Extended-Gate Field-Effect Transistor for Low Voltage pH Sensing Applications*”, Materials Letters, vol. 391, pp. 138475, 2025, DOI: [10.1016/j.matlet.2025.138475](https://doi.org/10.1016/j.matlet.2025.138475). (Corresponding author). ISSN 0167-577X; **IF 2.6; SCImagojr Q3**;
4. **Uvanesh Kasiviswanathan**, Chandan Kumar, Ajay Kumar Sahi, Amit Kumar, Satyabrata Jit, Neeraj Sharma, Sanjeev Kumar Mahto: “*Electrospun Stannic Oxide Nanofiber Thin-Film Based Sensing Device for Monitoring Functional Behaviors of Adherent Mammalian Cells*”. IEEE Transactions on NanoBioscience, vol. 24, no. 1, pp. 120-126, DOI: [10.1109/TNB.2024.3489353](https://doi.org/10.1109/TNB.2024.3489353). (Corresponding author). ISSN 1536-1241; **IF 4.2; SCImagojr Q1**;
5. Sajal Kumar Babu Degala, Ravi Prakash Tewari, Pankaj Karma, **Uvanesh Kasiviswanathan** and Ramesh Pandey: “*Segmentation and Estimation of Fetal Biometric Parameters using an Attention Gate Double UNet with Guided Decoder Architecture*”. Comput. Biol. Med., vol. 180, p. 109000, 2024, DOI: [10.1016/j.compbiomed.2024.109000](https://doi.org/10.1016/j.compbiomed.2024.109000). (Corresponding author).
6. Ashwini Shinde, Kavitha Illath, **Uvanesh Kasiviswanathan**, Shalini Nagabooshanam, Pallavi Gupta, Koyel Dey, Pulasta Chakrabarty, Moeto Nagai, Suresh Rao, Srabani Kar, and Tuhin Subhra Santra: “*Recent Advances of Biosensor-Integrated Organ-on-a-Chip Technologies for Diagnostics and Therapeutics*”. Analytical Chemistry, vol. 95, no. 6, pp. 3121-3146, DOI: [10.1021/acs.analchem.2c05036](https://doi.org/10.1021/acs.analchem.2c05036); ISSN 1520-6882; **IF 7.3; SCImagojr Q1**;

7. **Uvanesh Kasiviswanathan**, Chandan Kumar, Suruchi Poddar, Satyabrata Jit, Neeraj Sharma, Sanjeev Kumar Mahto: “*Extended Large Area Si/ZnO Heterojunction Biosensor for Assessing Functional Behaviour of Primary Cortical Neuronal Cells*”. IEEE Sensors Journal, vol. 21, no. 13, pp. 14619-14626, DOI: [10.1109/JSEN.2021.3072448](https://doi.org/10.1109/JSEN.2021.3072448); ISSN 1530-437X; **IF 4.5; SCImagojr Q1;**
8. **Uvanesh Kasiviswanathan**, Chelladurai Karthikeyan Balavigneswaran, Chandan Kumar, Suruchi Poddar, Satyabrata Jit, Neeraj Sharma, Sanjeev Kumar Mahto: “*Aluminum Oxide Thin Film Based in vitro Cell-Substrate Sensing Device for Monitoring Proliferation of Myoblast Cells*”. IEEE Transactions on NanoBioscience, vol. 20, no. 3, pp. 331-337, DOI: [10.1109/TNB.2021.3068318](https://doi.org/10.1109/TNB.2021.3068318); ISSN 1536-1241; **IF 4.2; SCImagojr Q1;**
9. **Uvanesh Kasiviswanathan**, Chandan Kumar, Suruchi Poddar, Satyabrata Jit, Neeraj Sharma, Sanjeev Kumar Mahto: “*Functional Behaviour of the Primary Cortical Neuronal Cells on the Large Surface of TiO₂ and SnO₂ Based Biosensing Device*”. IEEE Transactions on NanoBioscience, vol. 20, no. 2, pp. 138-145, DOI: [10.1109/TNB.2021.3058332](https://doi.org/10.1109/TNB.2021.3058332); ISSN 1536-1241; **IF 4.2; SCImagojr Q1;**
10. Chelladurai Karthikeyan Balavigneswaran, Gaurav Kumar, Chandrasekaran Vignesh Kumar, Satheeshkumar Sellamuthu, **Uvanesh Kasiviswanathan**, Biswajit Ray, Vignesh Muthuvijayan, Sanjeev Kumar Mahto, Nira Misra*: “*Gelatin grafted poly(D,L-lactide) as an inhibitor of protein aggregation: An in vitro case study*”. Biopolymers 111.8 (2020): e23383, DOI: [10.1002/bip.23383](https://doi.org/10.1002/bip.23383); ISSN 2093-3134; **IF 2.4; SCImagojr Q3;**
11. **Uvanesh Kasiviswanathan**, Chandan Kumar, Suruchi Poddar, Satyabrata Jit, Sanjeev Kumar Mahto, Neeraj Sharma: “*Fabrication of MSM Based Biosensing Device for Assessing Dynamic Behavior of Adherent Mammalian Cells*”. IEEE Sensors Journal, vol. 20, no. 17, pp. 9652-9659, DOI: [10.1109/JSEN.2020.2990919](https://doi.org/10.1109/JSEN.2020.2990919); ISSN 1530-437X; **IF 4.5; SCImagojr Q1;**
12. **Uvanesh Kasiviswanathan**, Suruchi Poddar, Chandan Kumar, Satyabrata Jit, Sanjeev Kumar Mahto*, Neeraj Sharma*: “*A Portable Standalone Wireless Electric Cell–Substrate Impedance Sensing (ECIS) System for Assessing Dynamic Behaviour of Mammalian Cells*”. Journal of Analytical Science and Technology, SpringerOpen; Volume 11; Article number 25 (2020); DOI: [10.1186/s40543-020-00223-9](https://doi.org/10.1186/s40543-020-00223-9); ISSN 2093-3134; **IF 2.4; SCImagojr Q3;**
13. Gaurav Kumar#, **Uvanesh Kasiviswanathan#**, Sumedha Mukherjee, Sanjeev Kumar Mahto, Neeraj Sharma, Ranjana Patnaik*: “*Changes in electrolyte concentrations alter the*

- impedance during ischemia-reperfusion injury in rat brain*", Physiological Measurements, IOP; 40(10):105004; DOI: [10.1088/1361-6579/ab47ee](https://doi.org/10.1088/1361-6579/ab47ee); **#equal contribution**. ISSN 0967-3334; **IF 2.5; SCImagojr Q3**;
14. Sarika Patel Kodela, Preeti Madhuri Pandey, Suraj K. Nayak, **K. Uvanesh**, Arfat Anis, Kunal Pal*: *Novel agar–stearyl alcohol oleogel-based bigels as structured delivery vehicles*. International Journal of Polymeric Materials; 66(13):669-678; DOI: [10.1080/00914037.2016.1252362](https://doi.org/10.1080/00914037.2016.1252362); ISSN 0967-3334; **IF 2.5; SCImagojr Q3**;
 15. Soumyashree Dhal, Abhinav Mohanty, Indu Yadav, **K. Uvanesh**, Senthilguru Kulanthaivel, Indranil Banerjee, Kunal Pal, Supratim Giri*: *Magnetic nanoparticle incorporated oleogel as iontophoretic drug delivery system*. Colloids and surfaces B: Biointerfaces 05/2017; 157:118-127; DOI: [10.1016/j.colsurfb.2017.05.061](https://doi.org/10.1016/j.colsurfb.2017.05.061); ISSN 0927-7765; **IF 5.9; SCImagojr Q1**;
 16. I. Yadav, **U. Kasiviswanathan**, C. Soni, S.R. Paul, S.K. Nayak, S.S. Sagiri, A. Anis, K. Pal*: *Stearic Acid Modified Stearyl Alcohol Oleogel: Analysis of the Thermal, Mechanical and Drug Release Properties*. Journal of Surfactants and Detergents 05/2017; 20(4):851-861; DOI: [10.1007/s11743-017-1974-4](https://doi.org/10.1007/s11743-017-1974-4); ISSN 1097-3958; **IF 2.0; SCImagojr Q3**;
 17. Preeti Madhuri Pandey, Suraj K Nayak, Gauri Shankar Shaw, **Uvanesh K.**, I. Banerjee, S. M. Al-Zahrani, Arfat Anis, Kunal Pal*: *An In-Depth Analysis of the Swelling, Mechanical, Electrical and Drug Release Properties of Agar-Gelatin Co-Hydrogels*. Polymer-Plastics Technology and Engineering 2017; 56(6):667-677; DOI: [10.1080/03602559.2016.1211694](https://doi.org/10.1080/03602559.2016.1211694); ISSN 2574-0881; **IF 3.5; SCImagojr Q2**;
 18. Tarun Agarwal, Prajna Kabiraj, Gautham Narayana, Senthilguru Kulanthaivel, **Uvanesh Kasiviswanathan**, Kunal Pal, Supratim Giri, Tapas Maiti, Indranil Banerjee*: *Alginate bead based hexagonal close packed 3D implant for bone tissue engineering*. ACS Applied Materials & Interfaces 11/2016; 8(47):32132-32145; DOI: [10.1021/acsami.6b08512](https://doi.org/10.1021/acsami.6b08512); ISSN 1944-8244; **IF 7.8; SCImagojr Q1**;
 19. S. Pandey, K. Senthilguru, **K. Uvanesh**, Sai S. Sagiri, B. Behera, N. Babu, Mrinanj K. Bhattacharyya, K. Pal, I. Banerjee*: *Natural gum modified emulsion gel as single carrier for the oral delivery of probiotic-drug combination*. International Journal of Biological Macromolecules 07/2016; 92:504-514; DOI: [10.1016/j.ijbiomac.2016.07.053](https://doi.org/10.1016/j.ijbiomac.2016.07.053); ISSN 0141-8130; **IF 8.7; SCImagojr Q1**;
 20. S. P. Mallick, G. S. Shaw, **Uvanesh K.**, D. Biswal, Suraj Nayak, S. S. Sagiri, V. K. Singh, M. K. Bhattacharya, A. Anis, K. Pal*: *An in-Depth Analysis of the Mechanical, Electrical*

- and Drug Release Properties of Gelatin-Starch Phase-Separated Hydrogels*. Polymer-Plastics Technology and Engineering 04/2016; 55(16):1731-1742; DOI: [10.1080/03602559.2016.1171873](https://doi.org/10.1080/03602559.2016.1171873); ISSN 2574-0881; **IF 3.5; SCImagojr Q2;**
21. Vinay Singh, **Uvanesh K**, Rashmi Rekha Behera, Samrat Baruah, Tarun Aggarwal, Indranil Banerjee, Kunal Pal*: *Effect of Polysaccharides on the Properties of the Mucoadhesive Poly (Vinyl Alcohol) Multi-Core-shell Microparticles*. Polymer-Plastics Technology and Engineering 2016; 55(9):879-888; DOI: [10.1080/03602559.2015.1098692](https://doi.org/10.1080/03602559.2015.1098692); ISSN 2574-0881; **IF 3.5; SCImagojr Q2;**
 22. Sai Sateesh Sagiri, **Uvanesh Kasiviswanathan**, Gauri Shankar Shaw, Meenakshi Singh, Arfat Anis, Kunal Pal*: *Effect of sorbitan monostearate concentration on the thermal, mechanical and drug release properties of oleogels*. Korean Journal of Chemical Engineering 03/2016; 33(5):1720-1727; DOI: [10.1007/s11814-015-0295-4](https://doi.org/10.1007/s11814-015-0295-4); ISSN 0256-1115; **IF 3.4; SCImagojr Q2;**
 23. **K. Uvanesh**, Sai S. Sagiri, Indranil Banerjee, Hamid Shaikh, Krishna Pramanik, Arfat Anis, Kunal Pal*: *Effect of Tween 20 on the Properties of Stearate Oleogels: an in-Depth Analysis*. Journal of the American Oil Chemists' Society 03/2016; 93(5):711-719; DOI: [10.1007/s11746-016-2810-0](https://doi.org/10.1007/s11746-016-2810-0); ISSN 0003-021X; **IF 2.4; SCImagojr Q3;**
 24. **K Uvanesh**, S S Sagiri, K Senthilguru, K Pramanik, I Banerjee, Arfat Anis, S M Al-Zahrani, Kunal Pal*: *Effect of Span 60 on the Microstructure, Crystallization Kinetics, and Mechanical Properties of Stearic Acid Oleogels: An In-Depth Analysis*. Journal of Food Science 2016; 81(2):E380-E387; DOI: [10.1111/1750-3841.13170](https://doi.org/10.1111/1750-3841.13170); ISSN 0022-1147; **IF 4.1; SCImagojr Q2;**
 25. Dibyajyoti Biswal, B Anupriya, **K Uvanesh**, Anis Arfat, Indranil Banerjee, Kunal Pal*: *Effect of mechanical and electrical behavior of gelatin hydrogels on drug release and cell proliferation*. Journal of the Mechanical Behavior of Biomedical Materials 2016; 53:174-186; DOI: [10.1016/j.jmbbm.2015.08.017](https://doi.org/10.1016/j.jmbbm.2015.08.017); ISSN 1751-6161; **IF 4.1; SCImagojr Q2;**
 26. Prerak Gupta, Gautham Hari Narayana S.N., **Uvanesh Kasiviswanathan**, Tarun Agarwal, Senthilguru K, Devdeep Mukhopadhyay, Kunal Pal, Supratim Giri, Tapas Kumar Maiti, Indranil Banerjee*: *Substrate stiffness does affect the fate of human keratinocytes*. RSC Advances 12/2015; 6(5):3539-3551; DOI: [10.1039/C5RA19947F](https://doi.org/10.1039/C5RA19947F); ISSN 2046-2069; **IF 6.1; SCImagojr Q2;**
 27. Saikat Sahoo, Vinay K Singh, **K Uvanesh**, Dibyajyoti Biswal, Arfat Anis, Usman Ali Rana, Saeed M Al Zahrani, Kunal Pal*: *Development of ionic and non-ionic natural gum based bigels: Prospects for drug delivery application*. Journal of Applied Polymer Science

- 10/2015; 132(38):42561(pp1-8). DOI: [10.1002/app.42561](https://doi.org/10.1002/app.42561); ISSN 0021-8995; **IF 3.1; SCImagojr Q3;**
28. Somya Asthana, Priyanka Goyal, Rik Dhar, **Uvanesh K**, Narendra B Pampanaboina, Joseph Christakiran, S S Sagiri, Manoj Khanna, Ajit Samal, Indranil Banerjee, Kunal Pal*, Krishna Pramanik, Sirsendu Sekhar Ray*: *Evaluation extracellular matrix-chitosan composite films for wound healing application*. Journal of Materials Science Materials in Medicine 08/2015; 26(8):220(pp1-11). DOI: [10.1007/s10856-015-5551-y](https://doi.org/10.1007/s10856-015-5551-y); ISSN 0957-4530; **IF 4.7; SCImagojr Q2;**
29. Gauri S Shaw, **K Uvanesh**, SN Gautham, Vinay Singh, Krishna Pramanik, Indranil Banerjee, Naresh Kumar, Kunal Pal*: *Development and characterization of gelatin-tamarind gum/carboxymethyl tamarind gum based phase-separated hydrogels: A comparative study*. Designed Monomers & Polymers 05/2015; 18(5):434-450. DOI: [10.1080/15685551.2015.1041075](https://doi.org/10.1080/15685551.2015.1041075); ISSN 1385-772X; **IF 2.4; SCImagojr Q3;**
30. Priyanka Goyal, Rik dhar, Sai S. Sagiri, **K. Uvanesh**, K. Senthilguru, Gauri Shankar, Ajit Samal, Krishna Pramanik, Indranil Banerjee, Sirsendu Sekhar Ray, Kunal Pal*: *Synthesis and characterization of novel dual environment-responsive hydrogels of Hydroxyethyl methacrylate and Methyl cellulose*. Designed Monomers & Polymers 03/2015; 18(4):367-377. DOI: [10.1080/15685551.2015.1012626](https://doi.org/10.1080/15685551.2015.1012626); ISSN 1385-772X; **IF 2.4; SCImagojr Q3;**
31. B Behera, D Biswal, **K Uvanesh**, A.K. Srivastava, Mrinal K Bhattacharya, K Paramanik, K Pal*: *Modulating the properties of sunflower oil based novel emulgels using castor oil fatty acid ester: Prospects for topical antimicrobial drug delivery*. Colloids and surfaces B: Biointerfaces 02/2015; 128:155-164. DOI: [10.1016/j.colsurfb.2015.02.026](https://doi.org/10.1016/j.colsurfb.2015.02.026); ISSN 0927-7765; **IF 5.9; SCImagojr Q1;**
32. **K Uvanesh**, S Jain, S Das, B Champaty, VK Singh, KC Das, SP Ghosh, JP Kar, A Anis, SM Al-Zahrani, Kunal Pal*: *Development of a continuous impedance monitoring system: A study to monitor D-glucose concentration*. International journal of electrochemical science 2015; 10(1):112-120. DOI: [10.1016/S1452-3981\(23\)04979-9](https://doi.org/10.1016/S1452-3981(23)04979-9); ISSN: 1452-3981, **IF 3.9; SCImagojr Q2;**

Conference Proceedings

1. Abhishek Kushwaha, **Uvanesh Kasiviswanathan**, Shiru Sharma: “*Feature Extraction and Classification of Speech Signal Using Hidden Markov-Gaussian Mixture Model (HM-*

GMM) for Driving the Rehabilitative Aids". India Conference (INDICON), 2017 Annual IEEE, IIT-Roorkee, India; 12/2017; DOI: [10.1109/INDICON.2017.8487963](https://doi.org/10.1109/INDICON.2017.8487963)

2. **Uvanesh K.**, Biswajeet Champaty, Indranil Banerjee, Sirsendu S. Ray, Kunal Pal, Biswajeet Mohapatra: "*Designing of a dual channel impedance analyzer for biological measurements*". India Conference (INDICON), 2014 Annual IEEE, Pune, India; 12/2014; DOI: [10.1109/INDICON.2014.7030631](https://doi.org/10.1109/INDICON.2014.7030631)
3. K. Kumar, B. Champaty, **K. Uvanesh**, R. Chachan, K. Pal, A. Anis: "*Development of an ultrasonic cane as a navigation aid for the blind people*". Control, Instrumentation, Communication and Computational Technologies (ICCICCT), 2014 International Conference on, Kanyakumari, India; 07/2014; DOI: [10.1109/ICCICCT.2014.6993009](https://doi.org/10.1109/ICCICCT.2014.6993009)
(Presenting Author & Best paper of the session award)
4. D.R. Kumar, B. Champaty, **K. Uvanesh**, K. Pal, A. Anis: "*Designing of an infra-red optocoupler based mobility aid for the blinds*". Control, Instrumentation, Communication and Computational Technologies (ICCICCT), 2014 International Conference on, Kanyakumari, India; 07/2014; DOI: [10.1109/ICCICCT.2014.6993011](https://doi.org/10.1109/ICCICCT.2014.6993011)
5. D. Biswal, **K. Uvanesh**, B. Champaty, S.S. Ray, K. Pal: "*Development of an ambulatory universal bio potential recording device*". Control, Instrumentation, Communication and Computational Technologies (ICCICCT), 2014 International Conference on, Kanyakumari, India; 07/2014; DOI: [10.1109/ICCICCT.2014.6993130](https://doi.org/10.1109/ICCICCT.2014.6993130) (Best paper of the session award)