

Home (<http://ipindia.nic.in/index.htm>) About Us (<http://ipindia.nic.in/about-us.htm>) Who's Who (<http://ipindia.nic.in/whos-who-page.htm>)
 Policy & Programs (<http://ipindia.nic.in/policy-pages.htm>) Achievements (<http://ipindia.nic.in/achievements-page.htm>)
 RTI (<http://ipindia.nic.in/right-to-information.htm>) Feedback (<https://ipindiaonline.gov.in/feedback>) Sitemap (<http://ipindia.nic.in/itemap.htm>)
 Contact Us (<http://ipindia.nic.in/contact-us.htm>) Help Line (<http://ipindia.nic.in/helpline-page.htm>)

[Skip to Main Content](#)



(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic.in/index.htm>)

Patent Search

| | |
|-------------------------|---|
| Invention Title | MULTI-TASK MULTI-KERNEL LEARNING TECHNIQUE TO ASSESS AND CLASSIFY BIO AND PSYCHOLOGICAL SIGNALS |
| Publication Number | 47/2022 |
| Publication Date | 25/11/2022 |
| Publication Type | INA |
| Application Number | 202211066338 |
| Application Filing Date | 18/11/2022 |
| Priority Number | |
| Priority Country | |
| Priority Date | |
| Field Of Invention | BIO-MEDICAL ENGINEERING |
| Classification (IPC) | A61B0005160000, G01N0021359000, A61B0005000000, G06N0003080000, G16H0050200000 |
| Inventor | |


| Name | Address | Country | Nationality |
|-----------------------------|---|---------|-------------|
| Rakesh Bharati | Assistant Professor, Department of Computer Science & Engineering, BIT, Gorakhpur, India. | India | India |
| Sourabh Jain | No. 80/2, Agresen Nagar, Airport Road, Indore, M.P, India. | India | India |
| Prathiba Jonnala | Assistant Professor, Department of Electronics and Communication Engineering, Vignan's Foundation for Science, Technology & Research, Vadlamudi-522213, India | India | India |
| Prof. Rishikesh Mishra | School of Education, Jaipur National University, Jaipur Agra Bypass, Jagatpura Jaipur Rajasthan, Pin-302017 | India | India |
| Prof. Meenu Singh | School of Education, Jaipur National University, Jaipur Agra Bypass, Jagatpura Jaipur Rajasthan, Pin-302017 | India | India |
| Mr. Rajeev Ratna Vallabhuni | Application Developer, Bayview Asset Management, LLC, FLORIDA, USA. | U.S.A. | India |
| Yadavalli. S. S. Sriramam | Assistant Professor, Department of ECE, S.R.K.R. Engineering College, Bhimavaram, A.P, India. . | India | India |
| Dr. R. V. S. Lalitha | Professor, Department of C.S.E., Aditya College of Engineering & Technology, Surampalem, Peddapuram, India. | India | India |

Applicant

| Name | Address | Country | Nationality |
|-----------------------------|---|---------|-------------|
| Rakesh Bharati | Assistant Professor, Department of Computer Science & Engineering, BIT, Gorakhpur, India. | India | India |
| Sourabh Jain | No. 80/2, Agresen Nagar, Airport Road, Indore, M.P, India. | India | India |
| Prathiba Jonnala | Assistant Professor, Department of Electronics and Communication Engineering, Vignan's Foundation for Science, Technology & Research, Vadlamudi-522213, India | India | India |
| Prof. Rishikesh Mishra | School of Education, Jaipur National University, Jaipur Agra Bypass, Jagatpura Jaipur Rajasthan, Pin-302017 | India | India |
| Prof. Meenu Singh | School of Education, Jaipur National University, Jaipur Agra Bypass, Jagatpura Jaipur Rajasthan, Pin-302017 | India | India |
| Mr. Rajeev Ratna Vallabhuni | Application Developer, Bayview Asset Management, LLC, FLORIDA, USA. | U.S.A. | India |
| Yadavalli. S. S. Sriramam | Assistant Professor, Department of ECE, S.R.K.R. Engineering College, Bhimavaram, A.P, India. . | India | India |
| Dr. R. V. S. Lalitha | Professor, Department of C.S.E., Aditya College of Engineering & Technology, Surampalem, Peddapuram, India. | India | India |

Abstract:

A number of computational methods have been proposed for determining overall emotional state of the user's biological and psychological signals, in order to design better interfaces that can adjust to the demands and internal states of the user. Despite the fact that results for inferring the user state under highly controlled conditions have been obtained with reasonably decent results, there is still much effort to be done in order to learn high-quality estimates of subjective evaluations of the user state under more natural conditions. To evaluate and categorize biological and psychological inputs, we used multi-task multiple kernel learning in particular in this invention. In the development of objective bio and psychological signals detection, as well as the application of functional near-infrared spectroscopy and machine learning approaches, our findings show the value of adopting individualized analysis.


 Registrar
 Jaipur National University