Background: New techniques based on digital analysis and more precise visualisation in monitoring of individual health status can improve the accessibility and reliability of healthcare services. An innovation in capturing human biofield energy level using Electrophotonic Imaging (EPI) is seen as a breakthrough approach to healthcare service. This non-invasive imaging approach produces an image, i.e., the Kirlian image in digital form to aid visualization and probe for disease identification. The diagnosis and treatment process are fast, reproducible and cost-effective. EPI technique works using computational models of human health state, commonly before and after a course of treatment or meditation. The reliability and efficacy of EPI are validated by the physician’s perceptions using biomedical measurements. At the same time, the algorithms developed by engineers embedded in the imaging system have advanced gradually with the help of clinical data from physicians. To close the gap between engineering and medicine, the field of research known as ‘Biomedical Engineering’ (BME) has been established to merge engineering principles with medicine in order to advance = diagnosis, treatment, and monitoring, which will in turn improves quality of life of mankind. Engineering approach is used to study on how the captured image indicates the energy level of human biofield. This elementary analysis introduces a pre-processing procedure.
to extract the effects texture. The image indicates the radiation energy level based on its most significant glow (digitally-imaged isolines) and is used for medical biometrics and health analysis. **Conclusion:** This paper simplifies the procedure of blob extraction for EPI image digitally. Four promising parameters are introduced as the image ‘digital signature’. Subsequently the human biofield energy levels can potentially be used as an alternative approach to health assessment in future clinical practice.