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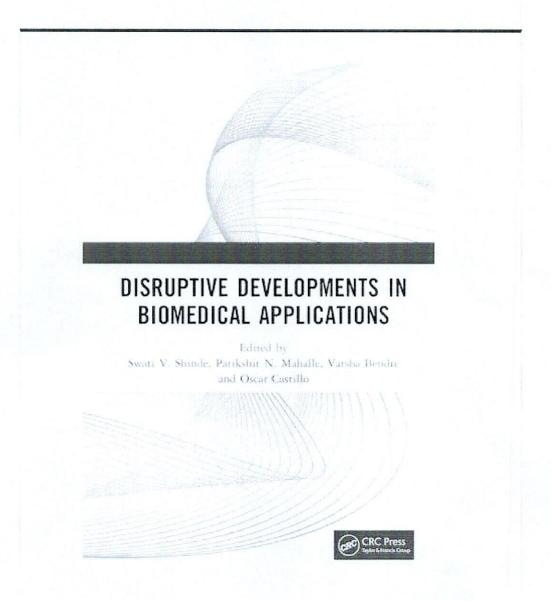
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14 Fetal Electrocardiogram Extraction Using Adaptive Filters Approach

Manjiri A. Ranjanikar, Sagar V. Joshi, Jaishri M. Waghmare, Swati V. Shinde, and Rachana Y. Patil

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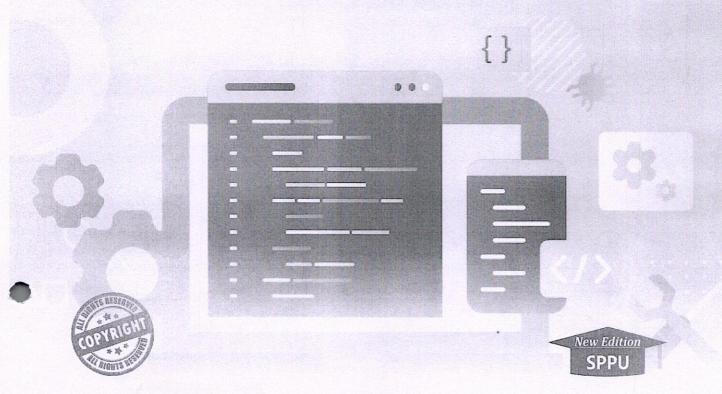
Congenital heart abnormalities are one of the primary birth defects and the main reason for death from birth defects. The shape of cardiac electrical signals shows up in almost all cardiac abnormalities. The non-invasive analysis of fetal cardiac signals can be a useful tool for monitoring the unborn heart's health. This could be used to detect heart problems early on. The electrical potential created in connection with heart action is represented graphically by the ECG signal. It is one of the primary used physiological signals in medical backgrounds. A FECG signal can be used to determine the well-being and status of the fetus, much as it can be done in adults. Fetal electrocardiography, Doppler ultrasound, and fetal magnetocardiography are non-invasive fetal monitoring procedures. Doppler ultrasound is the most often utilized approach since it is inexpensive and easy to use. However, because this approach generates an averaged heart rate, it cannot provide beat-to-beat variability.

The advantage of a fetal ECG is that it can detect beat-to-beat variability. There are numerous procedural issues with non-invasive FECG extraction. Different forms of interference, such as maternal electrogram (MEMG), maternal electrocardiogram (MECG), baseline drift, and power line interference of 50 Hz contaminate the FECG signal. The extraction of FECG is stimulating because of the low amplitude of the signals, various forms of noise, and overlapping frequencies of the mother and FECG. The basic goals of electronic fetal monitoring are to abstract and examine the FECG signal. Digital signal processing methods were used extensively in the extraction of the neonatal ECG signal. The abdominal ECG signal (AECG) is thought to be a nonlinear mixture of the MECG, FECG signal, and numerous interference signals. The FECG is derived from two signals collected on the mother's skin in the thoracic and abdominal regions. The thoracic electrocardiogram (TECG) is thought to be nearly entirely maternal, but the abdominal electrocardiogram

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Table of Content & Authors details

Predictive Data Modeling for Biomedical Data and Imaging

SNo	Chapter Title	Authors Name & Affiliations
1	Introduction & tour towards various tools of predictive analytics for Medical Science	Neha Kohli Ph.D Scholar, Faculty of Engineering and Technology, Manav Rachna International Institute of Research and Studies, Faridabad, 121004, Haryana, India Faculty, School of Engineering and Sciences, GD Goenka University, Gurugram, 122103, Haryana, India E-mail: nehaakohli@gmail.com Vaishali Arya Ph.D Scholar, Faculty of Engineering and Technology, Manav Rachna International Institute of Research and Studies, Faridabad, 121004, Haryana, India Faculty, School of Engineering and Sciences, GD Goenka University, Gurugram, 122103, Haryana, India Suryakanthi Tangirala University of Botswana, Gaborone, Botswana, Africa
2	Machine Learning Classification Algorithms for Prediction of Diseases	Radhanath patra, Dept of ECE, Berhampur University, Odisha, India Bonomali Khuntia Dept of CSE, Berhampur University, Odisha, India
3	"Similarity Index Retrieval for School Kids' Sitting Posture Identification"	Munish Gupta ¹ , Department of Computer Science and Engineering, Amity School of Engineering and Technology, Noida, India munish.gupta1@s.amity.edu Sachin Sharma Department of Computer Science and Engineering, Amity School of Engineering and Technology, Noida, India, sachina3010@gmail.com Madhulika Bhatia Department of Computer Science and Engineering, Amity School of Engineering and Technology, Noida, India mbhadauria@amity.edu Nikhil Kumar Gupta Department of Computer Electrical Engineering, Gniot Engineering College Greater Noida Nikhil.ee@gniot.net.in
4	Identification, Analysis and Recommendation of Sitting Posture of School Kids.	Shikhar Pathak Department of Computer Science and Engineering, Amity School of Engineering and Technology, Noida, India Madhulika Bhatia Department of Computer Science and Engineering, Amity School of Engineering and Technology, Noida, India mbhadauria@amity.edu Arun Yadav Department of Computer Science and Engineering, NIT, Hamirpur ayadav@nith.ac.in Madhurima Hooda National Health Services, UK 10madhurima@gmail.com
5	Biomedical Data Visualization and data representation	Subhranshu Mohapatra, Dr. Poonam Tanwar, Shweta Sharma Department of Computer Science & Engineering, School of

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Table of Content & Authors details

Predictive Data Modeling for Biomedical Data and Imaging

		Technology, Manav Rachna International Institute of Research & Studies, Faridabad, Haryana, India
6	Classification & clustering algorithms for medical data	Sachin Sharma', Department of Computer Science and Engineering, Amity University Uttar Pradesh Noida, India Madhulika Bhatiya, Department of Computer Science and Engineering, Amity University Uttar Pradesh Noida, India Anchal Garg ³ University of Bolton, UK Arun Yadav ³ 4NIT, Hamirpur
7.	Optimized Data Retrieval and data storage for health care application	Pritam Ramesh Ahire', Rohini Hanchate', Dr. K. Kalaiselvi,
	storage for health care application	¹² Assistant Professor, Department of Computer Engineering, Nutan Maharashtra Institute of Engineering and Technology SPPU, Pune, Maharashtra.
	100 mm	Associate Professor, Saveetha Colleges of Liberal Arts and Sciences (SIMATS), Chennai, India
8	Computational Intelligence System For Healthcare	¹Dr. M. Kiruthiga Devi, ¹Dr. T. Nalini, ʾDr.Kamalakannan Machap, ⁴Rajan Kumar 'Associate Professor, 'Student, Department of Information Technology, Dr. MGR Educational and Research Institute, India, Chennai. ¹Professor, Saveetha Institute of Medical And Technical Sciences India, Chennai. ¹Lecturer, School of Technology, Asia Pacific University, Technology Park Malaysia, Bukit Kalil 57000, Kuala Lumpur, Malaysia. kiruthigaprofessor89@gmail.com nalinit.sse@saveetha.com dr.kamalakannan@apu.edu.my
9	High Performance Intelligent Systems for Real Time Medical Imaging	Kanchana Devi V¹, Umamaheswari E², Karmel A², Nebojsa Bacanin⁴, David Maxim Gururaj A², Sreenivas R⁴ ¹²²²²² Vellore Institute of Technology, Chennai ⁴Singidunum University, Belgrade, Serbia kanchanadevi@vit.ac.in
10	A Real-time Patient Health Monitoring System	Prof. P.C. Khanzode, Anamika P. Mohod, Prajal P. Raut- Assistant Professor, Department of Computer Science & Engineering, Sipna College of Engineering & Technology, Amravati
11	Ensembled Convolutional Neural Network for Multi-Class Skin Cancer Detection	Siva Balan R V1*, Senthilnathan T2, Jayapriya J3, Balakrishnan C4 1 Associate Professor, Department of Computer Science, Christ (Deemed to be University), Bangalore 1 https://orcid.org/0000-0002-9855-7805 2 Associate Professor, Department of Computer Science, Christ

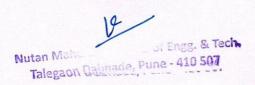




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Predictive Data Modeling for Biomedical Data and Imaging

		(Deemed to be University), Bangalore 2https://orcid.org/0000-0002-2906-533X 3 Assistant Professor, Department of Computer Science, Christ (Deemed to be University), Bangalore 3https://orcid.org/0000-0001-6672-6865 4 Associate Professor, Department of Computer Science, Christ (Deemed to be University), Bangalore 4https://orcid.org/0000-0003-2158-4896
12	Fatty Liver Disease Prediction: Using Machine Learning Algorithms	1Devyanshi Bansal, Amity University, Noida, devyanshi.bansal@s.amity.edu 2Supriya Raheja, Amity University, Noida, supriya.raheja@gmail.com 3Manoj Kumar, University of Wollongong, Dubai, wss.manojkumar@gmail.com
13	Computer aided drug design case study on development of new chemical entities in management of HIV	Kalyani D. Asgaonkara, Shital M. Patila, Suraj Gavandeb Address: aAll India Shri Shivaji Memorial Society's College of Pharmacy, Kennedy Road, Pune-400001 b Department of Pharmaceutical Sciences, Eugene Applebaum College of Pharmacy and Health Sciences (EACPHS), Wayne State University, Detroit, MI 48201, USA and Molecular Therapeutics Program, Barbara Ann Karmanos Cancer Institute, Wayne State University School of Medicine, Detroit, MI 48201, USA
14	Detection of Brain Tumor MRI Images using comparison using comprises on analysis of deep learning techniques	1V.Sheeja kumari, 2G.Vennira Selvi, 3I.Sudha, 4Surender Subburaj, 5Wilfred Blessings N R 1Professor / Department of Computational Intelligence-Institute of AI & ML, Saveetha School of Engineering, SIMATS University, Chennai. 2Professor / Department of Applied Machine Learning-Institute of AI & ML, Saveetha School of Engineering, SIMATS University, Chennai. 3Professor / Department of Computer Science and Engineering, Saveetha School of Engineering, SIMATS University, Chennai. 4Research Associate / School of Engineering, Cardiff university, United Kingdom 5Senior Lecturer, IT Department, College of Computing and Information Sciences, University of Technology and Applied Sciences-Ibri, Oman. Corresponding author: scjakm@gmail.com
15	Monitoring of Footprints images using Footprint Recognition, Artificial Intelligence and Machine Learning	Aditya Bhardwaj, Madhulika Bhatia, Dr.Lata Nautiyal 1&2 Amity University, Sector – 125, Noida, Uttar Pradesh 3 University of Bristol, Uk bhardwajaditya0204@gmail.com mbhadauria@amity.edu lata.nautiyal@bristol.ac.uk

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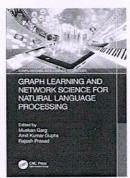


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Mohd. Shafi&contributorRole=author&redirectFromPDP=true&context=ubx), Vinod V. Kimbahune (/search?contributorName=Vinod V. Kimbahune&contributorRole=author&redirectFromPDP=true&context=ubx), Vijaykumar S. Bidve (/search?contributorName=Vijaykumar S. Bidve&contributorRole=author&redirectFromPDP=true&context=ubx)

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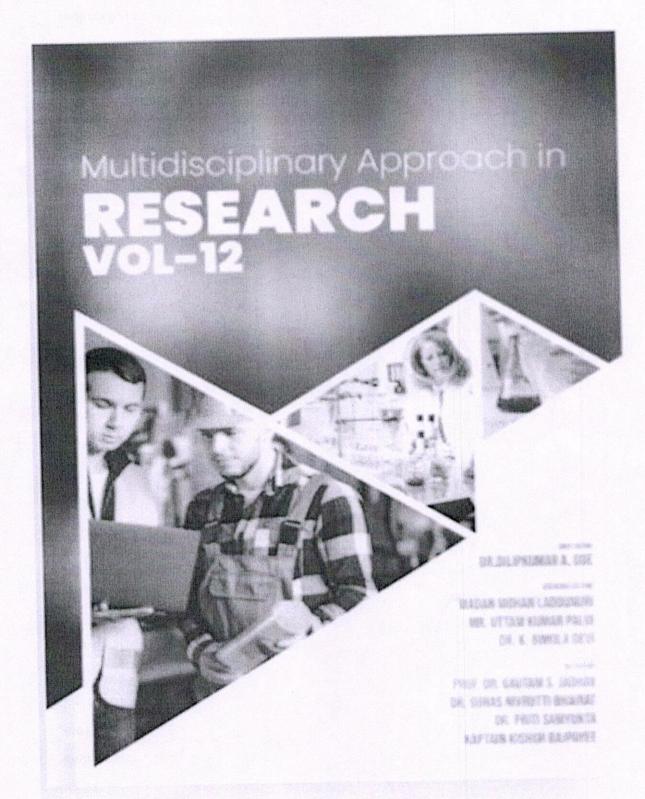
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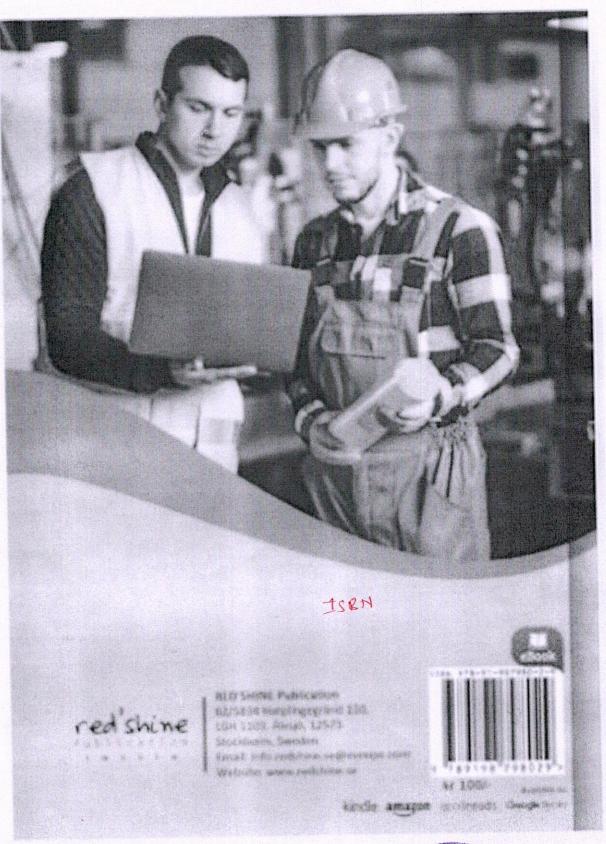
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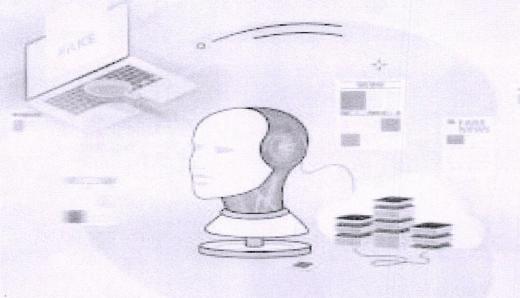
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