

2nd International Conference on Emergent Converging Technologies and Biomedical Systems

(ETBS – 2k22) September 23 -24, 2022

Programme

Day I: Friday, 23rd September 2022

Time	Activity	Speaker/ Session Chair	Theme / Track	Moderator
9:00-9:30	Registration			
9:30 am –10:15 am	Inaugural Google Meet joining info Video call link: https://meet.google.com/aje-pbkg-wmz			Mr. Abhishek Ray
10:15am-10:45am	High Tea			
10:45am – 11:30 am	Keynote 1	Prof. (Dr.) Mayank Dave <i>Department of Computer Engineering</i> <i>NIT Kurukshetra</i>	Topic: Cyber Attacks on IoT Devices and Countermeasures Google Meet joining info Video call link: https://meet.google.com/zuy-vxqt-myn	Lt. Pragya Gupta Ms. Jyotsna Bajaj
11:45 am-12:45 pm	Session – 1	Prof. (Dr.) Vivek Sehgal Dr. Sugandha Singh Dr. Nafis U Khan Dr. Jitendraa Vashistt <i>Jaypee University of Information Technology</i> Dr. Nikhil Marriwala, <i>UIET, Kurukshetra University</i>	Parallel Session 1 Google Meet joining info Video call link: https://meet.google.com/bfg-dkef-kvy	Mr. Dharendra Kumar Singh
	Session – 2	Prof. (Dr.) Sudhir Kumar Dr. Shweta Pandit Dr. Alok Kumar Dr. Udaybanu M <i>Jaypee University of Information Technology</i>	Parallel Session 2 Google Meet joining info Video call link: https://meet.google.com/ryc-repf-dxm	Mr. Ghanshyam
	Session – 3	Prof. Rajiv Kumar Dr. Emjee Puthooran Dr. Salman Raju Talluri Dr. Ravindra Bhatt <i>Jaypee University of Information Technology</i>	Parallel Session 3 Google Meet joining info Video call link: https://meet.google.com/wxs-gxfq-pnw	Mr. Abhishek Ray
	Session –4	Prof. (Dr.) Ashish Kumar Dr. Surajit Kumar Hazra	Parallel Session 4	Mr. Kamlesh Mishra

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		Dr. Jata Shankar <i>Jaypee University of Information Technology</i> Dr. Jitendra Mohan <i>JIIT, Noida</i>	Google Meet joining info Video call link: https://meet.google.com/ipv-rhbf-vdr	
12:45 pm-01:30 pm	Keynote 2	Prof. (Dr.) Dilbag Singh <i>Department of Instrumentation and Control Engineering, National Institute of Technology Jalandhar</i>	Topic: Signal Processing for Noninvasive Autonomic Assessment for HRV and Future Challenges Google Meet joining info Video call link: https://meet.google.com/rfi-ccxc-mwo	Mr. Munish Sood Mr. Ghanshyam
01:30 pm- 02:00 pm	Lunch			
02:00 pm-03:00 pm	Keynote 3	Prof. (Dr.) Dinesh Kumar <i>Electrical and Computer System Engineering RMIT, University, Melbourne, Australia</i>	Topic: The emergence of Digital Healthcare- potentials and current limitations Google Meet joining info Video call link: https://meet.google.com/xjo-rrii-dmh	Dr. Sanjeev Kumar Tiwari Mr. Ravendra Tiwari
03:00 pm -04:00 pm	Session – 5	Prof. (Dr.) P.B. Barman Dr. Naveen Jaglan Dr. Saurabh Rawat <i>Jaypee University of Information Technology</i> Mr. Atul Sharma <i>UIET, KUK</i>	Parallel Session 5 Google Meet joining info Video call link: https://meet.google.com/fto-hqih-exy	Mr. Kamlesh Kumar Srivastava
	Session – 6	Dr. Hemant Sood Dr. Poonam Dr. Ragini <i>Jaypee University of Information Technology</i> Dr. P.A. HarshaVardini <i>Dept of ECE, Vignan Institute of Technology and Science, Deshmukhi, Telangana, India</i>	Parallel Session 6 Google Meet joining info Video call link: https://meet.google.com/tbk-vdaj-twtf	Mr. Kamlesh Mishra
	Session – 7	Prof. (Dr.) Vineet Sharma Dr. Rajni Mohana Dr. Nishant Jain	Parallel Session 7 Google Meet joining info	Dr. Ajay Kumar Singh

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		Dr. Pardeep Kumar <i>Jaypee University of Information Technology</i>	Video call link: https://meet.google.com/wvt-rxcv-vrr	
	Session -8	Prof.(Dr.) Rakesh Bajaj Dr. Pradeep Kumar Gupta Dr. Harsh Sohal <i>Jaypee University of Information Technology</i> Dr. Vijendra Singh <i>UPES, Dehradun</i>	Parallel Session 8 Google Meet joining info Video call link: https://meet.google.com/bjh-ekbq-vem	Mr. Ravendra Tiwari
04:00 pm – 05:00 pm	Keynote 4	Prof. (Dr.) Celia Shahnaz <i>Department of EEE, Bangladesh University of Engineering and Technology</i>	Topic: Deep Learning Applications for Medical Image Analysis Google Meet joining info Video call link: https://meet.google.com/cid-iygh-byf	Dr. Santu Baidya Mr. Kamlesh Mishra

Day II: Saturday, 24th September 2022

Time	Activity	Speaker / Session Chair	Theme / Track	Moderator
09:30 am – 10:30 am	Keynote 5	Ms. Kamiya Khatter <i>Editor - Applied Sciences & Engineering Springer - a part of Springer Nature</i>	Topic: Scientific Writing for Research Publication Google Meet joining info Video call link: https://meet.google.com/pmx-stky-vpa	Dr. Salman Raju Talluri Dr. Ajay Kumar Singh
10:30 am- 11:30 am	Session – 9	Dr. Tiratha Raj Singh, Dr. Gopal Dr. Sanjiv Kumar Tiwari <i>Jaypee University of Information Technology</i> Dr. Ankit Bansal <i>Chitkara University, Punjab, India</i>	Parallel Session 9 Google Meet joining info Video call link: https://meet.google.com/ewh-ydjk-std	Ms. Jyotsna Bajaj
	Session –10	Dr Garlapati Vijay Kumar Dr. Sunil Datt Sharma Dr. Santu Vaidya Dr. Yugal Kumar <i>Jaypee University of</i>	Parallel Session 10 Google Meet joining info Video call link: https://meet.google.com/vsd-oibu-wpb	Mr. Deep Narayan Tripathi



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		<i>Information Technology</i>		
	Session-11	Dr. R S Raja Durai Dr. Anil Kant Dr. Rahul Srivastava Dr. Vikas Baghel <i>Jaypee University of Information Technology</i>	Parallel Session 11 Google Meet joining info Video call link: https://meet.google.com/enn-zdeh-pzt	Mr. Kamlesh Kumar Srivastava
11:30 am – 12:30 pm	Keynote 6	Prof. (Dr.) Pradeep Naik <i>HoD, Biotechnology Department</i> <i>School of Life Sciences</i> <i>Sambalpur University</i> <i>Sambalpur, Odisha</i>	Topic: In Silico Inspired Drug Design and its Translation to Clinics Google Meet joining info Video call link: https://meet.google.com/vhr-dwmb-icw?authuser=0	Dr.Pardeep Garg Mr. Deep Narayan Tripathi
12:30 am onwards	Valedictory			



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SESSION 1: (23 September, 2022, 11.45 – 12:45 PM)

Session Chair: **Prof. (Dr.) Vivek Sehgal**
Dr Sugandha
Dr. Nafis U Khan
Dr. Jitendraa Vashistt
Jaypee University of Information Technology
Dr. Nikhil Marriwala
UIET, Kurukshetra University

Lab Staff: Mr. Dharendra Kumar Singh

S.No	Paper ID	Title	Author
1	ETBS2022_JUIT_24	On Some New Similarity Measures for Picture Fuzzy Hypersoft Sets with Application in Medical Diagnosis	Himanshu Dhumras
			Rakesh Kumar Bajaj
2	ETBS2022_JUIT_79	Load Balancing in Cloud Computing using Multi Agent based Algorithms	Shyama Bhattacharjee Barna
3	ETBS2022_JUIT_73	Computational System Based on Machine Learning with Hybrid Security Technique to Classify Crime Offenses	Ankit Bansal
			Vijay Anant Athavale
			Kamal Saluja
			Sunil Gupta
4	ETBS2022_JUIT_174	CPSSD: Cyber Physical Systems For Sustainable Development- An Analysis	Vinay Kukreja
			Shivani Gaba
			Alankrita Aggarwal
			Shally Nagpal
5	ETBS2022_JUIT_183	Two Wheeler Shock Absorber Analysis With Polyurethane Insert	Pardeep Singh
			Rajender Kumar
			V.G. Pratheep
			T. Tamilarasi
			J.S. Joe Idaya Pranesh
			D. Balachandar
			A. Vimal Kumar

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SESSION 2: (23 September, 2022, 11.45 – 12:45 PM)

Session Chair: **Prof. (Dr.) Sudhir Kumar**
Dr. Shweta Pandit
Dr. Alok Kumar
Dr. Udaybanu M
Jaypee University of Information Technology

Lab Staff: Mr. Ghanshyam

S.No	Paper ID	Title	Author
1	ETBS2022_JUIT_120	A Systematic Assessment on 3D based Deep Learning Models and Challenges in FER	Rajesh Singh Anil Vohra
2	ETBS2022_JUIT_85	Significance of Convolutional Neural Network in Fake content detection: A Systematic Survey	Pummy Dhiman Amandeep Kaur
3	ETBS2022_JUIT_22	Analyzing Land Cover Changes in Ganges Delta (Sundarbans) Using Remote Sensing and Machine Learning	Monika Sharma Mukesh Kumar
4	ETBS2022_JUIT_015	A Hybrid Classification Model for Prediction of Academic Performance of Students: An EDM Application.	Amandeep Kaur Deepti Gupta
5	ETBS2022_JUIT_179	1D CNN model: BERT based approach for Depression and Suicide Identification	Devika S P Pooja M R Vinayakumar Ravi

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SESSION 3: (23 September, 2022, 11.45 – 12:45 PM)

Session Chair: Prof. (Dr.) Rajiv Kumar
Dr. Emjee Puthooran
Dr. Salman Raju Talluri
Dr. Ravindra Bhatt
Jaypee University of Information Technology

Lab Staff: Mr. Abhishek Ray

S.No	Paper ID	Title	Author
1	ETBS2022_JUIT_56	Estimating Factors in Agile Software Development Using Fuzzy Logic: A Survey	Jahidul Hasan Antor
			Sandhya Bansal
			Jamal
2	ETBS2022_JUIT_19	Enhancement of Accuracy and Performance of Machine Learning System during Detection of Phishing Emails	Pallavi Sharma
			Rohit Kumar
			Shelly Kalsi
3	ETBS2022_JUIT_75	Analysis of Robotically Controlled Percutaneous Needle Insertion into ex vivo Kidney Tissue for Minimally Invasive Percutaneous Nephrolithotomy (PCNL) Surgery	Ranjit Barua
			Sumit Bhowmik
			Arghya Dey
			Surajit Das
			Sudipto Datta
4	ETBS2022_JUIT_125	Assessment on Different IOT- Based Healthcare Services and Applications.	Rashi Rastogi
			Dr. Seema Nath Jain
5	ETBS2022_JUIT_160	Impact of Node Radiation on Human Health using IOMT	Hemanta Kumar Bhuyan
			Pullagura Lokaiah,
			Biswajit Brahma
			Chavva Subba Reddy



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SESSION 4: (23 September, 2022, 11.45 – 12:45 PM)

Session Chair: **Prof. (Dr.) Ashish Kumar**
Dr. Surajit Kumar Hazra
Dr. Jata Shankar
Jaypee University of Information Technology

Dr. Jitendra Mohan
JUIT, Noida

Lab Staff: Mr. Kamlesh Mishra

S.No	Paper ID	Title	Author
1	ETBS2022_JUIT_14	Improved RPPG method to detect BPM from human facial videos	Manpreet Kaur Naveen Aggarwal
2	ETBS2022_JUIT_11	Classification of Alzheimer's disease using Transfer Learning Mobile Net Convolutional Neural Network	Monika Sethi Saravjeet Singh Jatin Arora
3	ETBS2022_JUIT_40	Fog based Smart Healthcare Architecture in IoT Environment	Divya Gupta Ankit Bansal Shivani Wadhwa kamal Deep Garg
4	ETBS2022_JUIT_09	Hyperspectral image and Deep Learning Methodology for water evaporation prediction and control system	M.Sivapriya P.MohamedFathimal
5	ETBS2022_JUIT_133	Performance Comparison of Routing Protocols of WBAN for emergency handling in homogeneous network	Ramanpreet Kaur Bikram Pal Kaur Ruchi Pasricha Singla Jaskirat Kaur Parveen Singla Harliv Kaur

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SESSION 5: (23 September, 2022, 03:00 – 04:00 PM)

Session Chair: **Prof. (Dr.) P.B. Barman**
Dr. Naveen Jaglan
Dr. Saurabh Rawat
Jaypee University of Information Technology

Mr. Atul Sharma
UIET, KUK

Lab Staff: Mr. Kamlesh Kumar Srivastava

S.No	Paper ID	Title	Author
1	ETBS2022_JUIT_82	Viable methods adopted for reducing SAR value in mobile phone antenna: A review	M. Manikandan S. Karthigai Lakshmi
2	ETBS2022_JUIT_156	Data Integration in IoT using Edge Gateway	AjayVeer Chouhan Atul Sharma Chander Diwaker
3	ETBS2022_JUIT_93	"Heart disease detection using phonocardiogram (PCG) signals"	Aarti Kashyap Babita Majhi
4	ETBS2022_JUIT_21	Fog assisted Smart healthcare prediction system for Diabetics patients	Subhranshu Sekhar Tripathy Shashi Bhusan Panda Abhilash Pati Mamata Rath Niva Tripathy Premananda Sahu
5	ETBS2022_JUIT_169	Machine Learning Techniques for Human Activity Recognition using Wearable Sensors	Moushumi Das Vansh Pundir Vandana Mohindru Sood Kamal Deep Garg Sushil Kumar Narang

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SESSION 6: (23 September, 2022, 03:00 – 04:00 PM)

Session Chair: **Dr. Hemant Sood**
Dr. Poonam Sharma
Dr. Ragini Raj Singh
Jaypee University of Information Technology

Dr. P.A. HarshaVardini
Dept of ECE, Vignan Institute of Technology and Science, Deshmukhi, Telangana, India

Lab Staff: Mr. Kamlesh Mishra

S.No	Paper ID	Title	Author
1	ETBS2022_JUIT_182	Prediction on Illegal Drug Consumption-Promotion from Twitter Data	Chandra Singh
			Shailesh S Shetty
			Usha Desai
			Supriya B Rao
			Srinivas P M
2	ETBS2022_JUIT_83	Numerical modeling of Cu ₂ O based gas sensor for detection of volatile organic compounds in human breath	Rahul Gupta
			Anil Kumar
			Mukesh Kumar
			Pradeep Kumar
3	ETBS2022_JUIT_52	Analyzing Optimal Environment for the Text Classification in Deep Learning	Dinesh Kumar
			Ochin Sharma
			Sharad Kumar Tiwari
			Jaskirat Kaur
4	ETBS2022_JUIT_116	A Comprehensive Review of Big Data Analysis Techniques in Health-Care	Parveen Singla
			P.N. Hrisheeksha
			Shruti Jain
			Bandana Pal
5	ETBS_JUIT_172	Multi Modality Medical Image Fusion Employing various Contrast Enhancement Techniques	Rittwik Sood

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SESSION 7: (23 September, 2022, 03:00 – 04:00 PM)

Session Chair: **Prof. (Dr.) Vineet Sharma**
Dr. Rajni Mohana
Dr. Nishant Jain
Dr. Pardeep Kumar
Jaypee University of Information Technology

Lab Staff: Dr. Ajay Kumar Singh

S.No	Paper ID	Title	Author
1	ETBS2022_JUIT_33	Survey On IoT-Based Secure Health Care Framework Using BlockChain Technology	Ms. Mankiran Kaur
			Dr. Puneet Kumar
			Dr. Anuj Kumar Gupta
2	ETBS2022_JUIT_177	Automated Plant Health Assessment through Detection of Diseased Leaflets	Preeti Sharma
3	ETBS2022_JUIT_28	Spectral Statistical Analysis of Heart Sound Signals for Aortic Stenosis Detection	Mahesh Kumar S V
			Nishanth R
			Abin John Joseph
			Remya Gopalakrishnan
4	ETBS2022_JUIT_135	Deep Learning-based Ensemble Framework For Brain Tumor Classification	Harikrishnan D
			Aman Gupta
			Aman Sharma
5	ETBS2022_JUIT_112	Recognition of Hypertension through Retinal Fundus Images by Segmentation of Blood Vasculature	Rajni Mohana
			Jaskirat Kaur
			Deepti Mittal
			Parveen Singla
			Ramanpreet Kaur
			Sharad Kumar Tiwari

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SESSION 8: (23 September, 2022, 03:00 – 04:00 PM)

Session Chair: **Prof.(Dr.) Rakesh Bajaj**
Dr. Pradeep Kumar Gupta
Dr. Harsh Sohal
Jaypee University of Information Technology

Dr. Vijendra Singh
UPES, Dehradun

Lab Staff: Mr. Ravendra Tiwari

S.No	Paper ID	Title	Author
1	ETBS2022_JUIT_013	An Exhaustive Review on Emerging Health Care Internet of Things Technology	Navdeep Prashar
			Ashish Kumar
			Ashwani Sharma
2	ETBS2022_JUIT_044	Analysis of Power Consumption and IoT devices Using SPSS Tool	AnjaliNigoshker
			Premananda Sahu
			ShwetaTiwari
3	ETBS2022_JUIT_90	Wavelet and Savitzky-Golay filter based Denoising of Electrocardiogram signal: An improved approach	Nisha Raheja
			Amit Kumar Manoacha
4	ETBS2022_JUIT_171	A non-conventional patch based Shared aperture antenna with parasitic element for L/S band	Jonny Dhiman
			Sunil Kumar Khah
5	ETBS2022_JUIT_078	Location-Based Attendance Monitoring System With Facial Authentication	Mrs. K. Jaspin
			Dr. V. Pandiyaraju
			Mohanraj M
			Mohammed Basid

SESSION 9: (24 September, 2022, 10:30-11:30 AM)

Session Chair: **Dr. Tiratha Raj Singh**
Dr. Gopal Bisht
Dr. Sanjiv Kumar Tiwari
Jaypee University of Information Technology

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Dr. Ankit Bansal

Chitkara University, Punjab, India

Lab Staff:

Ms. Jyotsna Bajaj

S.No	Paper ID	Title	Author
1	ETBS2022_JUIT_190	Absorbance and emission studies of ZnO nanostructures	Priyanka Sharma
			Sanjiv Kumar Tiwari
			Partha Bir Barman
2	ETBS2022_JUIT_001	Human Brain MRI Segmentation Approaches and Challenges: A Review	Puneet Bansal
			Suraj Prakash Singh
			Krishan Gopal
3	ETBS2022_JUIT_034	A Methodology for Increasing Precision for the Efficient Implementation of Sigmoid Function	S.Suseendiran
			Deepa Jose
			P.Nirmal Kumar
			S.Suseendiran
4	ETBS2022_JUIT_180	Enhanced Kidney Stone Detections Using Digital Image Processing Techniques	Surjeet Singh
			Nishkarsh Sharma
5	ETBS2022_JUIT_104	Patient Monitoring and Management System	R.Indumathi
			Dr.R.Vasuki

SESSION 10:

(24 September, 2022, 10:30-11:30 AM)

Session Chair:

Dr. Garlapati Vijay Kumar

Dr. Sunil Datt Sharma

Dr. Santu Baidya

Dr. Yugal Kumar

Jaypee University of Information Technology

Lab Staff:

Mr. Deep Narayan Tripathi

S.No	Paper ID	Title	Author
1	ETBS2022_JUIT_106	A Systematic Review on Blockchain Based E-Healthcare For Collaborative	Deepak Singla
			Dr. Sanjeev Kumar Rana

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		Environment	
2	ETBS2022_JUIT_189	Design of a Novel Smart Device for Human Safety	Mukul Anand
			Zeeshan Naseem
			Shikhar Trivedi
			Abhishek
			Pardeep Garg
3	ETBS2022_JUIT_127	Energy Efficient Solar Powered Raspberry-Pi based Pesticide Sprayer Robot for Agriculture Applications	P.A. Harsha Vardhini
			N sindhu
			G Janardhana Raju
			Kalyana Srinivas
			Vishnu Sai
4	ETBS2022_JUIT_118	Chatbots: Understanding their world, classification, and their current state	Amit Singh
			Dr. K. K. Sharma
			Dr. Parveen Kumar
			Sandeep Kumar Vats
5	ETBS2022_JUIT_102	Enigmas of various Techniques to implementing Authentication and Integrity in Blockchain based Wireless Sensor Networks	Tejbir Singh
			Dr. Rohit Vaid

SESSION 11: (24 September, 2022, 10:30-11:30 AM)

Session Chair: Dr. R S Raja Durai
 Dr. Anil Kant
 Dr. Rahul Srivastava
 Dr. Vikas Baghel
 Dr. Sugandha Singh
Jaypee University of Information Technology

Lab Staff: Mr. Kamlesh Kumar Srivastava

S.No	Paper ID	Title	Author
1	ETBS2022_JUIT_42	COVID-19 and SDG 3 in Bangladesh: A Statistical and Machine Learning Approach	Md. Mortuza Ahmmed
			Md. Ashraful Babu
			Jannatul Ferdosy

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			Srikanta Kumar Mohapatra
2	ETBS2022_JUIT_192	A Hybrid Multi-Objective Optimization Algorithm for Scheduling Heterogenous Workloads in Cloud	Iqbal Gani Dar
			Vivek Shrivastava
3	ETBS2022_JUIT_193	EEG-Based Emotion Recognition Using SVM	Ram Avtar Jaswal
			Dr. Sunil Dhingra
4	ETBS2022_JUIT_30	Health Sector: An overview of various smart phone apps	Neera Batra
			Amandeep Kaur
			Sonali Goyal
5	ETBS2022_JUIT_139	Analysis of Optimized Algorithms for Quality of Service in IoT Communication	Uma Tomer
			Dr. Parul Gandhi
6	ETBS2022_JUIT_145	IoT-based Measurement and Prediction of Water Quality Index: A Review	Pooja Kumari
			Baban Kumar S Bansod
			Lini Mathew
7	ETBS2022_JUIT_029	DEVELOPMENT OF A COCONUT DEHUSKING MACHINE	Rominiyi, O.L
			Mohammed S.O
			James, E
			Jain S
			Ayodeji OlalekanSalau
			Eiche, J.F
			Oginni, O.T