

2020 International Conference on Interdisciplinary Cyber Physical Systems (ICPS 2020)

**Chennai, India
28-29 December 2020**



**IEEE Catalog Number: CFP20Z05-POD
ISBN: 978-1-7281-9655-8**

**Copyright © 2020 by the Institute of Electrical and Electronics Engineers, Inc.
All Rights Reserved**

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

****** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP20Z05-POD
ISBN (Print-On-Demand):	978-1-7281-9655-8
ISBN (Online):	978-1-7281-9654-1

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

2020 International Conference on Interdisciplinary Cyber Physical Systems (ICPS) ICPS 2020

Table of Contents

Welcome Message from the Conference Chair .vii.....	
Committees .viii.....	

2020 International Conference on Interdisciplinary Cyber Physical Systems (ICPS)

Role of Byzantine Fault Tolerance (BFT) in Maintaining Patient Health Records Using Block Chain Technology .1.....	
<i>A. Lalitha Venkatesan (VIT University, India) and Sathis Kumar B (VIT University, India)</i>	
Towards Modeling Cyber-Physical Hazards in Buildings: Interdisciplinary Approach .7.....	
<i>Balaji Kalluri (DBI - The Danish Institute of Fire and Security Technology, Denmark), Igor Kozin (Technical University of Denmark), and Robert Taylor (Technical University of Denmark)</i>	
Real Time Arrhythmia Detecting Wearable using a Novel Deep Learning Model .14.....	
<i>Sayak Banerjee (Vellore Institute of Technology, India), Arin Paul (Vellore Institute of Technology, India), Anshika Agarwal (Vellore Institute of Technology, India), and Sumit Kumar Jindal (Vellore Institute of Technology, India)</i>	
Experimental Automatic Gear Shifting for a Combustion Race Car .20.....	
<i>Varun Mamtani (Vellore Institute of Technology, India), Sarthak Agrawal (Vellore Institute of Technology, India), Manas Utkarsh Malviya (Vellore Institute of Technology, India), and Sumit Kumar Jindal (Vellore Institute of Technology, India)</i>	
AT89S52-Microcontroller Based Elevator with UV-C Sterilization to Prevent the Transmission of Corona virus .25.....	
<i>Akshat Akshat (Vellore Institute of Technology, India), Vartika Nanda (Vellore Institute of Technology, India), Ayaansh Singhal (Vellore Institute of Technology, India), and Sumit Kumar Jindal (Vellore Institute of Technology, India)</i>	

Experimental Design and Implementation of Fingerprint Based Exam Hall Authentication System with Temperature Sensing and Analysis Using Internet of Things .31.....	
<i>Aayush Shrestha (Vellore Institute of Technology, India), Tanisha Rakshit (Vellore Institute of Technology, India), Ritayan Patra (Vellore Institute of Technology, India), and Sumit Kumar Jindal (Vellore Institute of Technology, India)</i>	
Malicious URL Detection Using Majority Vote Method with Machine Learning and Deep Learning Models .37.....	
<i>Antsa Cyprienna Rakotoasimbahoaka (University of Fianarantsoa, Madagascar), Iadaloharivola Randria (University of Fianarantsoa, Madagascar), and Nicolas Raft Razafindrakoto (University of Itasy, Madagascar)</i>	
Mitigating Masquerade Using Nonce in Symmetric Key Distribution - Survey .44.....	
<i>Chaitany Pandiya (National Institute of Technology Karnataka, India), Siddharth Singh (National Institute of Technology Karnataka, India), and B. R. Chandavarkar (National Institute of Technology Karnataka, India)</i>	
Greatest Common Divisor and Its Applications in Security: Case Study .51.....	
<i>Jelwin Rodrigues (National Institute of Technology Karnataka, India), Siddhartha M (National Institute of Technology Karnataka, India), and B.R. Chandavarkar (National Institute of Technology Karnataka , India)</i>	
G2R Crypto Wallet Using Indian Language Mnemonics .58.....	
<i>Geetha Ganesan (Advanced Computing Research Society, India)</i>	
Performance Analysis on Varies Bluff Bodies at Hypersonic Speed .62.....	
<i>Balaji R (Lovely Professional University) and Muruga Lal Jeyan (Lovely Professional University)</i>	
Computational Study on Chamber Morphing Wing Concept for Efficient Lift at Various Angle of Attack .68.....	
<i>Bilji C. Mathew (Lovely Professional University), K. Sai Priyanka (Lovely Professional University), and J V Muruga Lal Jeyan (Lovely Professional University)</i>	
Design and Analysis for the Flutter Behaviour of Different Selected Wing Plan Forms Computationally .72.....	
<i>R Sabari Vihar (L.P.U, Punjab, India), K Sai Priyanka (LPU, Punjab, India), and J.V. Muruga Lal Jeyan (LPU, Punjab, India)</i>	
Author Index .79	