

2021 IEEE International Conference on Cloud Computing in Emerging Markets (CCEM 2021)

**Virtual Conference
27 – 30 October 2021**



**IEEE Catalog Number: CFP21CCM-POD
ISBN: 978-1-6654-0882-0**

**Copyright © 2021 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:	CFP21CCM-POD
ISBN (Print-On-Demand):	978-1-6654-0882-0
ISBN (Online):	978-1-6654-0881-3

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

2021 IEEE International Conference on Cloud Computing in Emerging Markets (CCEM) **CCEM 2021**

Table of Contents

Message from Steering Committee Chairs	vii
Message from the General Chairs	viii
Message from the Program Chairs	ix
Organizing Committee	x
Sponsors	xii
Detailed Schedule of the Conference	xiii

Full Research Papers

Simulating Realistic MRI Variations to Improve Deep Learning Model and Visual Explanations using GradCAM	1
<i>Muhammed Ilyas Patel (IIT Kharagpur, India), Shrey Singla (IIT Bombay, India), Razeem Ahmad Ali Mattathodi (IIT Madras, India), Sumit Sharma (Philips Research, Philips Healthcare, India), Deepam Gautam (Philips Research, Philips Healthcare, India), and Srinivasa Rao Kundeti (Philips Research, Philips Healthcare, India)</i>	
A Visual Co-Occurrence Driven Recommender System	9
<i>Nishant Kumar (National Institute of Technology, India), P. Radha Krishna (National Institute of Technology, India), and Vishnu Kumar (National Institute of Technology, India)</i>	
Sensor Based Pothole Detection System	15
<i>Shravanth SB (BMS College of Engineering), Abhay Bhargav KM (BMS College of Engineering), and Geetishree Mishra (BMS College of Engineering)</i>	
The Log Structured Merge Forest	23
<i>Aishwarya Kumaraswamy (PES University, India), Ishaan Lagwankar (PES University, India), Tejvi M. (PES University, India), Spurthi N. Anjan (PES University, India), and Subramaniam Kalambur (PES University, India)</i>	

Short Research Papers

Textual vs. Visual Fake News: A Deception Showdown	31
<i>Kevin Matthe Caramacion (University at Albany, State University of New York, USA)</i>	
Current Challenges in IoT Cloud Smart Applications	36
<i>Mangala N (JNTU Anantapur, India), Venugopal K R (Bangalore University, India), and Eswara Reddy B (JNTU Anantapur, India)</i>	

Optimized Spatial Join with Grid Sub-Partitioning	41
<i>Prafullata Auradkar (PES University, India), Kavya Shekar (PES University, India), Ruchika Shashidhara (PES University, India), Sripathsa M (PES University, India), Akash Bhat (PES University, India), Anirudh Jakati (PES University, India), Nakul Sripathsa (PES University, India), Dinkar Sitaram (CCICM), and Subramaniam Kalambur (PES University, India)</i>	
Author Index	47