

REPORT - ON

3rd Inernational Conference on Energy Control Computing and Electronic Systems – ICECCES2022

(29th to 31st December, 2022)

In Collobration with



ORGANISED BY: Department of Electrical and Electronics Engineering, School of Engineering, Mohan Babu University Tirupati, India.

| Conference Chair(s) | : Dr. M. S. Sujatha, Professor & Head, EEE, MBU |
|---------------------|---|
| | Dr. T. Nageswara Prasad, Professor & Dean, P&M, MBU |

Convener : Dr G Hari Krishnan, Associate Professor, EEE, MBU

The conference was held from 29th to 31st December, 2022. It brought together a wide range of researchers, academicians, and research scholars working on the subject title. ICECCES2022 aims to bring together the researchers and academic scientists, around the globe to share their experiences and findings in the field of Electrical, Electronics, Computing, Healthcare and Mechanical. Original Contributions from researchers describing their unpublished research work pertaining to Power Systems, Smart Energy, Power Electronics and Drivers, Control Systems, Machines, Mechanical Engineering, Healthcare, Image Processing, IoT, Robotics etc It served as the multi-disciplinary platform for exchanging innovative ideas and thoughts on the Energy, Control, Computing and Electronic Systems and their applications to the society. 60 papers were shortlisted from the total count of 150 papers. This scientific meeting had 6 technical sessions with Eminent Professors around the globe as session chair's and 60 paper were presented.



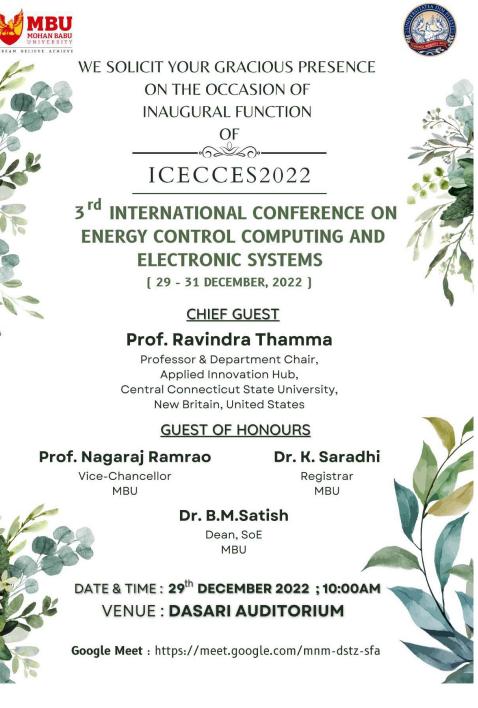


Figure 1. a. ICECCES2022 Conference Invitation



Chief Patron Dr. M. Mohan Babu, Chancellor Mohan Babu University Mr. Vishnu Manchu, Pro-Chancellor Mohan Babu University Mr. Vishnu wandruk, inter-interaction with the protocol particular and the second seco mittee Iniversity of West Bohemia, Pizen, Czech Republic zed, Northern Illinois University, United States arman, Central University of Technology, Free State, Dr. Jahr Pinker, University of West Bohemio, Piten, Czech Republic Dr. Abaki, K. Macal, Narham Elinois Linversity, United States Boh, Robert M. K. Macal, Narham Elinois Linversity, United States Boh, Robert M. States, University of Buchnest, Bornaria Dr. Rotstan Roverku, University of Buchnest, Bornaria Dr. Rotstan Buch, University of Buchnest, Bornaria Dr. Rotstan, Buchnest, Birls Institute of Tach, Ranchi, India Dr. Busmartsta, Kumer Mehantus, Birls Institute of Tach, Ranchi, India Dr. B. Andrey, M. T. Tuckingoli Dr. Rotstan, M. T. Tuckingoli Dr. R. Andrey, M. T. Tuckingoli Dr. K. K. Manda, M. T. Tuckingoli Dr. K. K. Manda, K. Torukinski, Briton Dr. K. K. Manda, Buchnestik, University, Channal Dr. K. K. Halanda, Buchnestik, Dannal Dr. K. K. Kashanda, Buchnessik, Dannal Dr. K. K. Kashanda, Buchnessik, Dannal Dr. K. K. Kashanda, Buchnessik, Channal Dr. K. Kashanda, Buchnessik, Channal Dr. K. Kashanda, Buchnessik, Channal Dr. K. Kashanda, Sathyabama University, Channal M. K. Sage Babu, Fiat Chrysler Automator Hadana, India Mr. G. Angen Mandan, Annarado Differenti EL, Radia M. K. Bahanda, Sathyabama Differenti EL, Radia M. K. Bahanda, Sathyabama Differenti St. Radia M. K. Bahanda, Sathyababama Differenti St. Radia M. K. Bahanda Abul. K. M. A

Conference Chair(s) Dr. M. S. Sujatha, Professor & Head, EEE, MBU Dr. T. Negeswara Prasad, Prof., EEE & Dean P & M, MBU Convener Dr. & Harl Krishnan, Associate Professor, EEE, MBU Co-Convener Dr. I. Kumaraswamy, Associate Professor, EEE, MBU Organizing Secretarie (s) Dr. S. Hemachandra, Prof., EEE & Dean IIC, MBU Dr. P. Umapathi Reddy, Professor, EEE, MBU Dr. T. Devargiu, Professor, EEE, MBU Dr. N. M. G. Kumar, Professor, EEE, MBU Co-Organizing Secretarie(s) Dr. S. Forook, Professor, EEE, MBU Mr. M. Manohara, Associate Professor, EEE, MBU Dr. M. Ramaprasad Reddy, Associate Professor, EEE, MBU Coordinator(s) Dr. E Parimala Sundar, Associate Professor, EEE, MBU Mr. T. Kosaleswara Reddy, Assistant Professor, EEE, MBU Mr. T. Koselesware Reddy, Assistont Professor, EEE, M Co-Coordinator() Dr. Suresh Baba Daram, Professor, EEE, MBU Dr. V Arux, Professor, EEE, MBU Publication Committee Dr. S. Prabha, Associate Professor, EEE, MBU Dr. & Nemanth Kurman, Assistont Professor, EE, MBU Dr. Kavail Jandhan, Assistont Professor, EEE, MBU Dr. Kavell Janardhen, Assistant Professor, EE, MUU Financial Committee Mr. P. Venkotesh, Assistant Professor, IEE, MUU Mr. B. Praveen Kumar, Assistant Professor, IEE, MUU Website & Media Committee Mr. Dr. K. Lideether frag, Associator Professor, EE, MUU Mr. P. Revlandra, Assistant Professor, EE, MUU Registration Committee Mr. H. S. Medhurf, Assistant Professor, EE, MUU Mr. B. H. S. Medhurf, Assistant Professor, EE, MUU Mr. B. H. S. Medhurf, Assistant Professor, EE, MUU Mr. B. Venkota Sai Thrimoth, Assistant Professor, EE, MUU

Contact

Dr G. Hari Krishnan Email: convener.icecces2022@gmail.com drharikrishnang@vidyanikethan.edu

MBU SCHOOL OF ENGINEE STECHNOLOGY

3rd International Conference on ENERGY, CONTROL, COMPUTING AND ELECTRONIC SYSTEMS **ICECCES 2022**

29th - 31st Dec, 2022



Department of Electrical and Electronics Engineering School of Engineering, Mohan Babu University

In Collobration with University of Pitesti



College Profile: School of Engineering and Technology, Mohan Babu University (formerly sizes Vidyanakkina Engineering College) was Established in 1986, the college has grown exponentially. And Babu, Mahan Babu University is one of the largest and the most sought-after institutions in what an Araban. The college of the Babytoms, BU University and status and the state of the largest and the most sought-after institutions in what an Araban. The college of the Babytoms, BU University is students during 2021-22, From the AY 2022-2023, the sponsoring trust SVK will be offend; the Ench / Marce/, TAGA / MAC / Phu-programs in the School of Engineering and Technology under Wohan Babu University', a State Private Brown-Field University. The success of the Mohan Babu University is primarily due to the vision and the mession of our belowed Chinary, Br. M. Mahon Babu Gao und the mession of our belowed Chinary, Br. M. Mahon Babu Gao and the mession of our belowed Chinary, Br. M. Mahon Babu Gao and the mession work of committed members of locatly and staff the college has crossed many a significant quality milestone. • All Birten, Mark, "Exceedent", band in ABAA-Atal Rankings 2021. • Stark, "Bis In MRK", "Exceedent", band in ABAA-Atal Rankings 2021.

- Cycles with /k Grade and /k* 6 Rank 165 in MRF, Taxcellen't band in ARIA-Atal Rankings 2021, "PLATNUM" status in AUCTE-CII Survey since 2017. 6 ' Grade by Department of Higher Education, AP 6 ' AAAA' by 'Careers 380'; a popular English magazine. 5200 placement offers with average pay of Rs. So II AN this to Sacybie 2022.
- in Googlein 2022. The College is mentoring Private Engineering Colleges under AICTE Margadarshan Scheme. DST fund of **Rs. 3.6 Screes** to establish "Science Technology and Innovation STI Hub in Chandragiri Mandal and **39.90 Lette** for research private.
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Vision: To become the Nation's premiere Centre of excellence in electrical engineering through teaching, training, research and innovation to create competent engineering professionals with values and ethics

- Mesion: Department of Electrical Engineering strives to create human resources in Electrical Engineering to contribute to the nation development and improve the quality of Ilia. Imparting Knowledge through implementing modern curriculum, academic fibribility and learner centric teaching methods in Electrical Engineering. Impairing students for apticule to research and innovation by expensing them to industry and accieful needs to create solutions to environg method provide the reheads the create solutions of environg method provide the rehenced teaching automatic environgements provide the rehenced teaching automates and employability of students with diverse background through comorehensive training methodologies.
- comprehensive training methodologies. Inculate values and ethics among students for a holistic engineering professional practice

About the Conference:

About the conterence: The main objective of ICSCCES 2022 conference is to bring academic and industrial experts together and provide an exceptional interdisciplingry/pdform to diseminitate the master each Innovations, trends, concerns along with the present-day challenges. The conference focuses on various expects of Electrical, Electronics, Mechanical, Communication and Computing.

- Call for papers: Original research papers are invited in the areas, but not limited to Power System Operation and Control
 Power System Deregulation
 HVDC & FACTS

- HVDC & FACTS
 Smart Grid
 Power Electronics and Drives
 Renewable Energy Sources
 Electrical Vehicle
 Artificial Intelligence and Robotics
 IoT and Embedded Systems

- loT and Embedded Systems
 Soft Computing
 PF0A & VISI Circuits and Systems
 lig Data
 Cyber Sacuity systems Virtual Reality and Augmented reality
 Control System and Automation
 instrumentation and Medical Electronics
- el instrumentation and Medical Electronics
 elitomedical, Nano and Biotechnology
 Signal and Image Processing
 Pottern recognition
 Machine Learning
 Cloud and Mabile Computing
 Cloud and Mabile Computing
 Human Machine Interface Security
 Anternas and Microwave communications
 Machatronics
 Communications & IoT

Key Note Speakers: Dr. Nicu Bison, University of Pitesti, Romania Dr. Nicu Bison, University of Pitesti, Romania authorId=22936824500)

Dr. Norziana Jamil, UNITEN, Malaysia

- authorld=36682671900) Dr. Cristian Raveriu, University of Bucharest, Romania
- (https://www.scopus.com/authid/detail.uri? authorid=6602445421) Dr. Tarik A. Rashid, University of Kurdistan Hewler, Iraq

- authorid=57023479100) Dr. Nebojsa Bacanin Jacula, University of Serbia, Serbia

authorid=37028223900) Dr. Dusmanta Kumar Mohanta, Birla Institute of Tech., Ranchi, India

- Registration fees:

 o
 For Indian Authors (Faculty): 2000 INR

 o
 For Indian Author (Student): 1000 INR

 o
 For Indian Author (Industry): 3000 INR
- For International :100 USD
- For International :100 USD
 Registration fees includes: Paper presentation, Certificate,
 E proceedings with ISBN, Conference kit, Conference Lunch.
 Paper Submission Link:
 https://easychair.org/conferences/?confeeicecces2020
- https://aaxychair.org/fconferences/7conferences/zcorf All the accepted, presented and extended articles be published in Web of Science/SCOPUS Indxed Journal/Book Chopter with additional publication and processing charges

| Name of Journal | Publication cost | Indexing |
|---|------------------|----------------------------------|
| Remittances Review | 16000 | SCOPUS |
| Journal of Complementary Medicine | 13500 | ESCI (WoS) |
| AIP Conference Publication | 11000 | SCOPUS |
| Springer Lecture Notes on Electrical Engineering | 13500 | SCOPUS |
| Journal of Electrical Engineering, Electroncs, Control and Computer Science | NIL | Citefactor, Google Scholar |

Important dates:

- Last date for Submission of Manuscript: 20th November 2022. Notification of Acceptance: 5th December 2022.
- Instantation of indespirates of "December 4022
 Last date of registration and submission of camera ready
 paper. The December 2022.
 Conference Date: 29th 31*December 2022
 Conference website: https://www.mbu.asia/ICECCES_22

- Figure 1. b. ICECCES2022 Conference Brochure



Day 1: 29th December, 2022

Inaugural Session: Inauguration at Dasari Auditorium, Mohan Babu University, Tirupati, India.

Distinguished Chief Guest of International Conference, Prof. Ravindra Thamma, Professor and Department Chair, Central Connecticut State University, United States; Guests of Honor, Dr. Nagaraj Ramarao, Vice-Chancellor, MBU, Dr. K. Saradhi, Registrar, MBU, Dr. B. M. Satish, Dean SoE & SoC, MBU, Dr. P Giridhara Reddy, Dean Research & Accreditation, MBU, Dr. A. Srinivasulu, Dean, Research and Innovation, MBU, Dr. P. V. Ramana, Dean, Academics, MBU, Dr. T. Nageswara Prasad, Professor, EEE & Dean Planning and Monitoring, MBU, Dr. S. Hemachandra, Professor, EEE & Dean Accreditation, MBU, Prof. M. S. Sujatha, HoD, Dept. of EEE; Convener, Dr. G. Hari Krishnan Associate Professor, Dept of EEE; Co-Convener Dr. I Kumaraswamy, Associate Professor Dept. of EEE graced the E-inauguration of the conference.



Figure 2. Lighting of lamp during Inaugural by Chief Guest Prof. Ravindra Thamma, Professor and Department Chair, Central Connecticut State University, United States





Figure 3. Releasing of Proceedings by Chief Guest Prof. Ravindra Thamma, Dr. Nagaraj Ramrao Vice Chancellor, Prof. K. Saradhi Registrar and Prof. B.M. Satish Dean SoE, Dr M. S. Sujatha Conference Chair and Dr G Hari Krishnan Conference Convener

Under conference submission through easy chair 150 papers were received through India and out of which 80 papers were selected based on the quality of paper, similarity index and reviewer report. Submitted papers were undergone with External and Internal review with experts from IITs, NITs and Central Universities as external reviewers. Total selected were segregated in to six technical sessions based on their domain out of which first two sessions held on 29th December 2022, three technical sessions were held during second day of conference 30th December 2022 and during third day 31st December 2022





Figure 4. Welcome address by Dr. M. S. Sujatha, HOD, EEE, MBU



Figure 5. Briefing about Conference by Dr. G Hari Krishnan, Convener ICECCES2022





Figure 6. Address by Dr. B. M. Satish, Dean SoE, MBU



Figure 7. Address by Dr. K. Saradhi, Registrar, MBU





Figure 8. Address by Dr. Nagaraj Ramrao, Vice-Chancellor, MBU



Figure 9. Address by Chief Guest, Prof. Ravindra Thamma



Technical Session I: Electrical Core papers presentation held in Hybrid mode (Online & Offline), Time: 11.00 AM to 1.00 PM

Technical session 1 which was under core Electrical research was chaired by Eminent Professor **Dr. Nicu Bizon**, Head of Faculty at University of Pitesti, Romania and Internal experts **Dr. NMG Kumar**, Professor and **Dr. S. Farook**, Professor of EEE Department. Ten technical papers were presented with 8 minutes for presentation and 2 minutes for queries from participants and session chairs.



Figure 10. Technical Session I Venue with offline presentation Students and Session Chair's



Figure 11. Technical Session I offline technical paper presentation by conference delegates under the presence of session Chair's



Technical Session II: Electronics and Communication papers presentation held in Hybrid mode (Online & Offline), Time: 2.30 PM to 4.00 PM.

Technical session II which was under Electronics and Communication research was chaired by **Dr. N. Gireesh,** Prof. & Head, Dept. of ECE, MBU and **Dr. N.Padmaja**, Professor, Dept. of ECE, Twelve technical papers were presented with 8 minutes for presentation and 2 minutes for queries from participants and session chairs.



Figure 12. Technical Session II offline technical paper presentation and Session chair's interaction for queries

Technical Session III: Computer Science papers presentation held in Hybrid mode (Online & Offline), Time: 11.00 AM to 1.00 PM

Technical session III which was under Computer Science research was chaired by Eminent Professor Dr. Tarik A. Rashid, University of Kurdistan Hewler, Iraq and MBU CSE department experts Dr. Narendra Kumar Prof. and Head, Dept. of CSE and Dr. V. Avanija, Associate Professor, Dept of CSE. Fifteen technical papers were presented with 8 minutes for presentation and 2 minutes for queries from participants and session chairs.



Day 2: 30th December, 2022

Technical Session IV: IoT and Embedded specialization papers presentation held in Hybrid mode (Online & Offline), Time: 11.30 AM to 12.30 PM.

Technical session IV which was under IoT and Embedded specialization research was chaired by **Dr. S. Hemachandra**, Professor, Dept. of EEE, **Dr I Kumaraswamy**, Associate Professor, Dept of EEE and **Mr. M. Manohara**, Associate Prof. EEE. Twelve technical papers were presented with 8 minutes for presentation and 2 minutes for queries from participants and session chairs.



Figure 13. Technical Session III Online technical paper presentation

Technical Session V: Multidisciplinary research papers presentation held in Hybrid mode (Online & Offline), Time: 2.00 PM to 3.30 PM

Technical session V which was under Multidisciplinary research was chaired by Eminent Professor **Dr. Bacanin**, Nebojsa Singidunum University, Belgrade, Serbia and **Dr. T. Devaraju**, Professor, Dept of EEE and **Dr. V. Arun**, Professor, Dept. of EEE. Ten technical papers were presented with 8 minutes for presentation and 2 minutes for queries from participants and session chairs.



Day 3: 31st December, 2022

Technical Session VI: Multidisciplinary research papers presentation held in Hybrid mode (Online & Offline), Time: 10.00 AM to 1.30 PM

Technical session VI which was under Multidisciplinary research was chaired by Eminent Professor Dr. Cristian Raveriu, University of Bucharest @Romania and Dr. D. Suresh Babu, Professor, Dept of EEE and Dr. E. Parimalasundar, Associate Professor, Dept. of EEE. Ten technical papers were presented with 8 minutes for presentation and 2 minutes for queries from participants and session chairs.

Valedictory: Held at Dasari Auditorium, Mohan Babu University Time: 20.00 PM to 4.30 PM

During valedictory on 31st December 2021 Certificates and mementoes were given to the offline participants and students by Dr. B. M. Satish, Dean SoE, MBU, Dr. P. Giridhara Reddy, Dean, Research & Accreditation, MBU Dr. A. Srinivasulu, Dean, Research & Innovation, MBU. The valedictory ended with grand cultural events by Students of EEE department.



Figure 14. Valedictory welcome speech by Dr M. S. Sujatha, Chair and HoD EEE during Valedictory





Figure 15. Speech by Dr. A. Srinivasulu, Dean, Research & Innovation during valedictory



Figure 16. Certificate issuing by Dr B. M. Sathish, Dean SoE for conference presenters





Figure 17. Certificate issuing by Dr. P. Giridhara Reddy, Dean AR, for conference presenters



Figure 18. Dignitaries, Faculty and participants during Valedictory of ICECCES2022





Figure 19. Conference End Note by Convener Dr G Hari Krishnan during Valedictory



Figure 20. Feedback session during Valedictory of ICECCES2022





Figure 21. Vote of Thanks by Dr I Kumaraswamy, Co-Convener during Valedictory



Figure 22. Cultural by students of EEE department during valedictory



| MOHAN BABU | B rd International Conference On ENERGY, CONTROL, COMPUTING AND ELECTRONIC SYSTEMS (ICECCES2022) BEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING | | |
|--|---|--|--|
| Certificz | nte of Appreciation | | |
| paper on title OPTIMIZED ENERGY CONTROL 3rd International Conference on "Energy, Contro | DAMETLA BHANUSWAROOP has presented his/her STRATEGIES FOR GRID INTEGRATED CHARGING STATION FOR EV's in the I, Computing and Electronic Systems" (ICECCES2022) held during 29 th – 31 st ing College (Autonomous), A. Rangampet, Tirupati-517102, AP, . | | |
| Dr. G. Hari Krishnan Convener | M. S. Sujatha Dr. B. M. Satish HOD-EEE Dean, SoE | | |
| | (a) | | |
| | 3 rd International Conference On ENERGY, CONTROL, COMPUTING AND ELECTRONIC SYSTEMS (ICECCES2022) DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING | | |
| Certificate of Appreciation | | | |
| This is to certify that Prof./Dr./Mr./Ms | Srinivasa Rao Jalluri has presented his/her ge Resonant Converter for EV Applications in the 3 rd International Conference | | |
| | : Systems" (ICECCES2022) held during 29 th - 31 st December 2022 at Sree | | |
| Dr. G. Hari Krishnan Convener | M. S. Sujatha Dr. B. M. Satish HOD-EEE Dean, SOE | | |
| | (b) | | |

Figure 23. (a) and (b) Sample conference technical paper presentation certificates

Dr. G. HARI KRISHNAN CONVENER ICECCES2022 Dr. M. S. SUJATHA CONFERENCE CHAIR & HOD-EEE ICECCES2022