Machine Learning in Electronic Design Automation for Next Generation Applications

KONGU ENGINEERING COLLEGE(Autonomous)

Department of ECE Perundurai, Erode – 638060

07.05.2022

No Registration fee.

Last date for Registration: 05.05.2022

Venue: Virtual Mode

Topics of the Seminar

- Introduction about Machine Learning for Next Generation Applications
- Machine Learning in Synchronous EDA Tools
- Asynchronous CAD and Machine Learning
- Hardware Support for Machine Learning in EDA
- Specific Opportunities for Machine Learning

Resource Persons

 Sessions will be handled by experts from reputed institutions and Industries.











MeitY Sponsored One Day National Level Seminar on

"Machine Learning in Electronic Design Automation for Next Generation Applications"

To register click here

Convenor

Dr.D.Malathi (Professor)

Co-ordinators

Dr.K.Gavaskar (Assistant Professor)
G.Ravivarma (Assistant Professor)



K.Gavaskar 9790004798 G.Ravivarma 8760296378



About College

Kongu Engineering College was established in the year 1984. Approved by AICTE, New Delhi and affiliated to Anna University, Chennai. It offers 17 UG programmes, 15 PG programmes and 15 Research programmes in Engineering, Applied Sciences and Management imparting high quality value-added education in India. The college has got NBA accreditation for UG programmes, NAAC accreditation with A++ grade, Best Engineering College award and Best Principal award twice. In the survey conducted by MHRD in the name NIRF (National Institution Ranking Framework), the Institution is placed in the second rank at Tamilnadu level and fifth rank at National Level among all Selffinancing Colleges. In the same survey, the Institution has bagged 164th rank among all Engineering institutions in India including premier institution like IITs, NITs, etc. The institution has established a Technology Business Incubator (TBI) supported by Department of Science and Technology, Government of India in its campus. TBI@KEC has won the National Award, for the Best TBI in India, presented by President of India on Technology Day in New Delhi on 11th May, 2013.

General Instructions

- Confirmation of registration and "Google Meet" link will be sent through mail on or before 06.05.2022.
- Participants will receive e-certificate after successful completion of all sessions.
- Participants have to give feedback at the end of the session.



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About Department

The Electronics and Communication Engineering department occupies a prominent place in the annals of its academic history. The department has been consistently producing illustrious engineering graduates of high caliber who occupy prestigious positions in the academic and industrial fields. The specialization the faculty includes Telecommunication System Engineering, Computer Networks, Power Electronics, Control Systems, VLSI, Bio-Medical Engineering, Digital Signal Processing, Microwave Systems, Automation, Instrumentation and Control etc. The department has excellent laboratory facilities in the areas like Networking, Microprocessors, Electronics. Communication, VLSI, Digital Signal Processing, Microwave, RF, Multimedia, Fiber Communication, Computer Hardware Maintenance and Computer Centers with latest software. The department offers four year UG programme in ECE and two year PG programmes in VLSI Design, Communication Systems and Embedded Systems. The Department has accredited by NBA outcome based Tier-I scheme.

KONGU ENGINEERING COLLEGE PERUNDURAI, ERODE – 638052

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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07.05.2022

PARTCIPANTS LIST

S.No	Name	College Name	
1.	Mrs.JASLIN J S	J. J. College of Engineering and Technology	
2.	Dr.Dr. M. P. Revathi	J. J. College of Engineering and Technology	
3.	Mrs.Harthy Ruby Priya S	J. J. College of Engineering and Technology	
4.	Mr.Mrutyunjaya S Yalawar	CMREC HYDERABAD	
5.	Ms.Ragavi.S	Cognizant Technology Solutions	
6.	Mr.Vivek B	Kongu Engineering College	
7.	Mrs.KEERTHANA G	J. J. College of Engineering and Technology	
8.	Dr.Baluprithviraj K N	Kongu Engineering College	
9.	Mrs.Arthi R	Muthayammal Engineering College	
10.	Mr.Dinesh Kumar J R	Sri Krishna College of Engineering and Technology	
11.	Mr.SHIVASWAMY M S	KONGU ENGINEERING COLLEGE	
12.	Mrs.Deepa.G	Kongu Engineering College	
13.	Dr.CHELLAMMAL P	J. J. College of Engineering and Technology	
14.	Mrs.Pradeepa JB	J.J. college of engineering and technology	
15.	Dr.SENTHILKUMAR C	Dr.N.G.P.Institute of Technology	
16.	Mr.Nithyasai S	Kathir College of Engineering	
17.	Dr.Madhan Mohan M	Kongu Engineering College	
18.	Mr.JANARTHANAN S	Kongu Engineering College	
	Mrs.Priyadharsini K	Sri Krishna College of engineering and technology	
20.	Mr.Sheikdavood K	M.Kumarasamy College of Engineering	
21.	Mrs.AMBIKA M	J. J. College of Engineering and Technology	
22.	Ms.PUSHPARANI MK	AJIET, MANGALORE	
	Dr.Gavaskar K	Kongu Engineering College	
24.	Dr.Kalavathi Devi T	Kongu Engineering College	
25.	Ms.Dharani N	Veltech Rangarajan Dr Sagunthala R & D Institute of	
26.	Dr.J.PREETHA	MUTHAYAMMAL ENGINEERING COLLEGE	
27.	Mr.Ravichandru T	K S R Institute for Engineering and Technology	
28.	Mr.NITHYANANDAN M	JAYAM COLLEGE OF ENGINEERING AND	
29.	Mr.BOOPATHY.S	KATHIR COLLEGE OF ENGINEERING	
30.	Mr.KARTHI T	Kongu Engineering College	
	Mr.GOVINDARAJ V	Narasu's Sarathy Institute of Technology	
	Dr.S.Balambigai	Kongu Engineering College	
33.	Mr.Anbumani V	Kongu Engineering College	

34.	Ms.DHURGAPRIYA. R	KSR INSTITUTE FOR ENGINEERING AND	
35.	Dr.KALAISELVI.T.C.	KONGU ENGINEERING COLLEGE,PERUNDURAI	
36.	Mrs.Raja Rajeswari B	Muthayammal Engineering College	
37.	Dr.D.Malathi	Kongu Engineering College	
38.	Mr.G.Ravivarma	Kongu Engineering College	
39.	Dr.D.Krithika Renuka	PSGR Krishnammal College for Women	

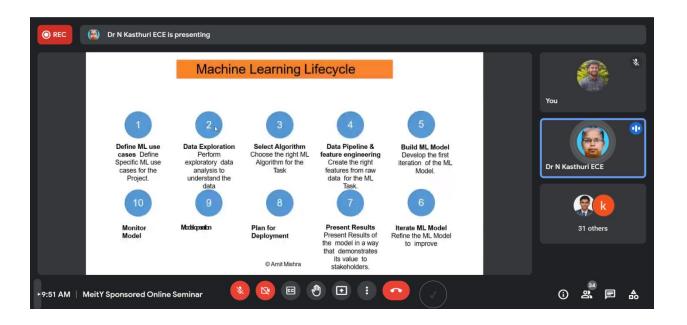
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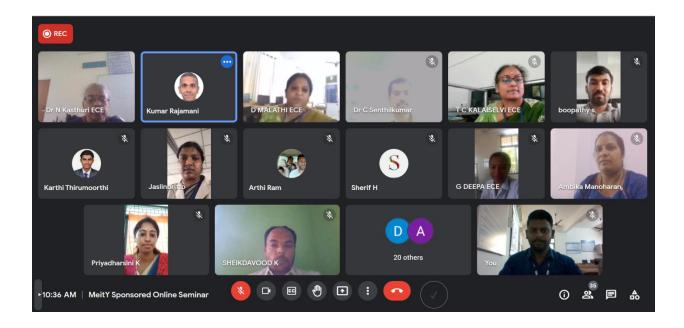
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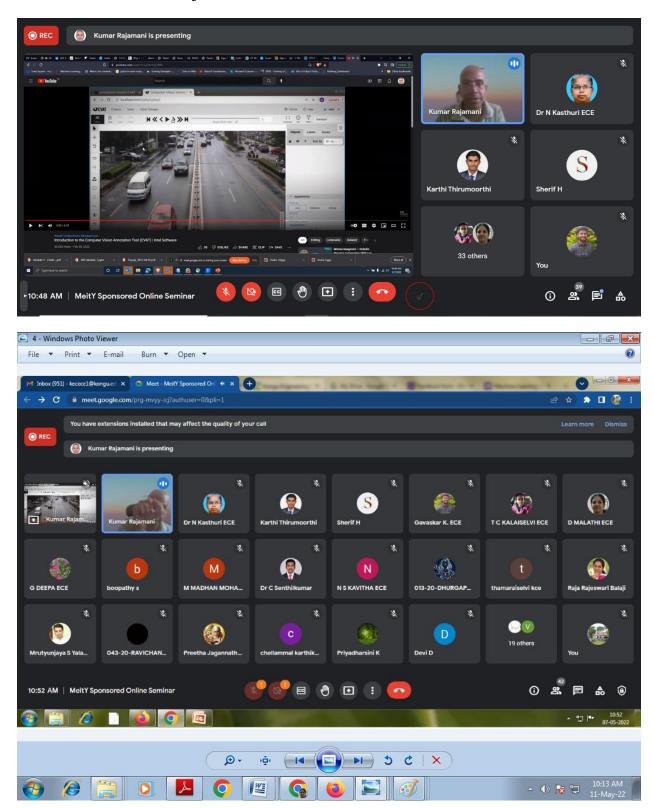
S.No	Time	Title	Name of the Speaker
1	9:00-10:30AM	An overview of Machine Learning algorithms for Electronic Design Automation	Dr.N.Kasthuri Professor, Kongu Engineering College
2	10:30-12:00PM	Evaluation of Manual annotation of Images using Deep Learning – Spatio Temporal models (STCN)	Dr. Kumar Rajamani Senior Scientist, Philips, Bengaluru
3	12:00-1:30 PM	Evolution of Technology for AI based applications	Mr.Abinash Presidio Cloud Solutions
4	2:00-3:30PM	Hardware for Artificial intelligence and Machine Learning	Dr.R.Sakthivel Associate Professor Grade 2 Department of Micro and Nanoelectronics Vellore Institute of Technology, Vellore, Tamilnadu
5	3:30-5:00 PM	Machine Learning in VLSI	Dr.D.Malathi Professor, Kongu Engineering College

Session -1 - Dr.N.Kasthuri

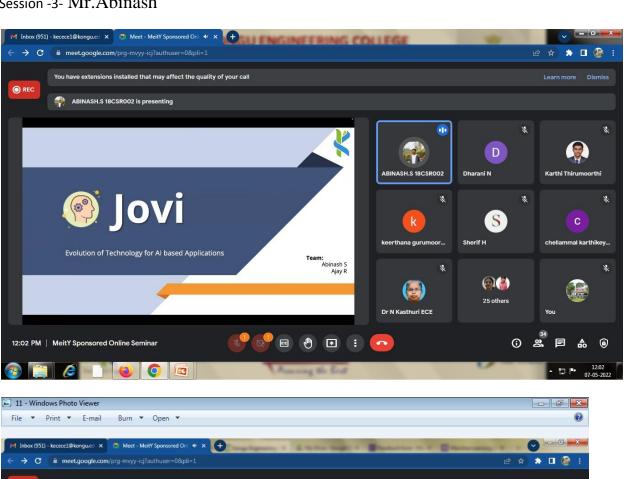


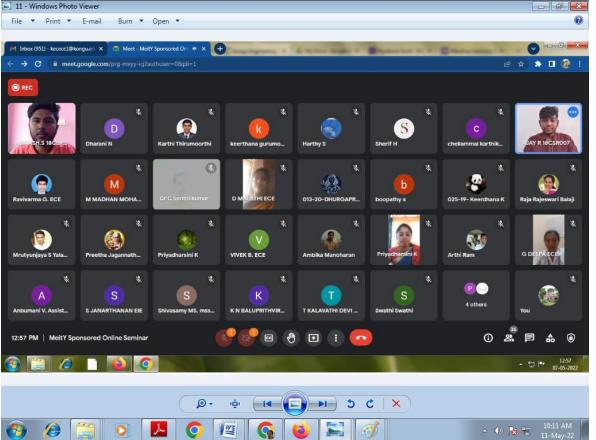


Session -2 - Dr. Kumar Rajamani



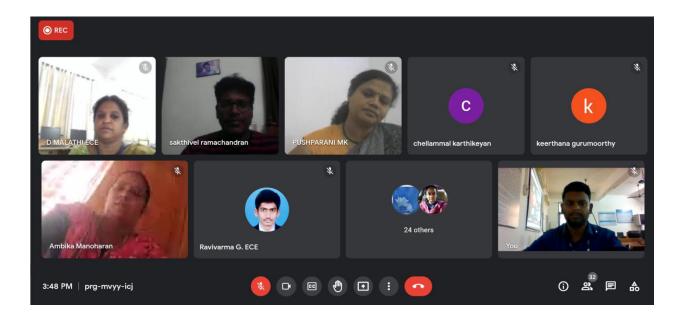
Session -3- Mr. Abinash





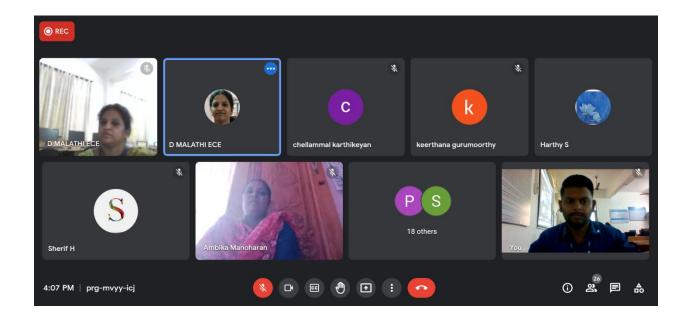
Session -4- Dr.R.Sakthivel





Session -5 -Dr.D.Malathi





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Dr.N.Kasthuri, Professor, Kongu Engineering College started the seminar on the topic "An overview of Machine Learning algorithms for Electronic Design Automation". She gave an overview about machine learning algorithms and how it is applied for real time applications. Next, Dr. Kumar Rajamani, Senior Scientist, Philips, Bengaluru, discussed about the "Evaluation of Manual annotation of Images using Deep Learning – Spatio Temporal models (STCN)" with some real time demos. Mr.Abinash, Presidio Cloud Solutions, discussed "Evolution of Technology for Al based applications" with a project he had developed.

Dr.R.Sakthivel, Associate Professor Department of Micro and Nanoelectronics, Vellore Institute of Technology, Vellore, discussed about the "Hardware for Artificial intelligence and Machine Learning". He gave a wide knowledge about the different hardwares which can be used for Artificial intelligence and Machine Learning. Lastly, Dr.D.Malathi, Professor, Kongu Engineering College discussed how machine learning used in VLSI with some projects. About 38 participants from various institutions across India participated. Each session had a discussion at the end. Participants gave a feedback that the seminar is so useful and they have learnt some new topics.

pr. D. Malathi)