

Faculty Development Programme on
Research Trends in ML based Signal Processing

Organized by
Department of Electronics & Communication Engineering, College of Engineering Trivandrum
Programme schedule

29-01-2024 Monday	09:00 a.m. -09:30 a.m.	REGISTRATION	
	09:30 a.m. - 10:45 a.m.	Inaugural Session Chief Guest – Dr. Sriram Ganapathy Associate Professor, LEAP lab, Electrical Engg.IISc, Bangalore Google Research India, Bangalore	
	10:45 a.m.-11:00 a. m. -TEA BREAK		
	11:00 a. m. -12:45 p.m.	Train, baby, Train. But do you know what your models have learned?	Dr. Sriram Ganapathy , Associate Professor, LEAP lab, Electrical English, Bangalore Google Research India, Bangalore
	01:00 p.m.- 01:45 p.m. - LUNCH		
	1:45 p.m. to 3:00 p.m.	Generative models for speech synthesis (Hands-on session)	Dr. Jayesh M K Senior Chief Engineer, Samsung Electronics, Bangalore
	3:00 p.m.-3:15 p. m. -TEA BREAK		
3:15 p.m. to 4:30 p.m.	Generative models for speech synthesis (Hands-on session)	Dr. Jayesh M K Senior Chief Engineer, Samsung Electronics, Bangalore	
30-01-2024 Tuesday	09:30 a.m. - 10:45 a.m.	TinyML - Modern Trend in Deep Learning: Complex operations in low-end hardware - Practical Perspective	Dr. Hari R Professor and Head, Dept. of Electronics & Commn. Engg. Govt. Engg. College, Barton Hill, Thiruvananthapuram
	10:45 a.m.-11:00 a. m. -TEA BREAK		
	11:00 a. m. -12:45 p.m.	TinyML - Modern Trend in Deep Learning: Complex operations in low-end hardware - Practical Perspective	Dr. Hari R. Professor and Head, Dept. of Electronics & Commn. Engg. Govt. Engg. College, Barton Hill, Thiruvananthapuram
	01:00 p.m.- 01:45 p.m. - LUNCH		
	1:45 p.m. to 3:00 p.m.	Environmental Sound Classification using Deep Neural Networks (Hands-on-session)	Dr. Suresh K. Principal, Govt. Engg. College, Painav, Idukki
	3:00 p.m.-3:15 p. m. -TEA BREAK		
3:15 p.m. to 4:30 p.m.	Environmental Sound Classification using Deep Neural Networks (Hands-on-session)	Dr. Suresh K. Principal, Govt. Engg. College, Painav, Idukki	
31-01-2024 Wednesday	09:30 a.m. - 10:45 a.m.	Machine Learning in Neuroscience	Dr. Jerrin Thomas Panachakel Assistant Professor, Dept. of Electronics and Commn. Engg.,CET
	10:45 a.m.-11:00 a. m. -TEA BREAK		
	11:00 a. m. -12:45 p.m.	Mastery in De-escalating stress	Dr Sreelakha T J Psychologist, Vibrant minds Pangappara
	01:00 p.m.- 01:45 p.m. - LUNCH		
	1:45 p.m. to 3:00 p.m.	Deep learning for Signal Processing applications	Dr. Deepak Misra Professor, Dept. of Avionics Indian Institute of Space Science and Technology, TVPM
	3:00 p.m.-3:15 p. m. -TEA BREAK		
3:15 p.m. to 4:30 p.m.	Deep learning for Signal Processing applications	Dr. Deepak Misra Professor, Dept. of Avionics Indian Institute of Space Science and Technology, TVPM	
01-02-2024 Thursday	09:30 a.m. - 10:45 a.m.	ML in Music Signal Processing (Hands-on-session)	Dr. Rajeev Rajan Associate Professor, Dept. of Electronics and Commn. Engg. Govt. Engg. College, Barton Hill, TVPM
	10:45 a.m.-11:00 a. m. -TEA BREAK		
	11:00 a. m. -12:45 p.m.	ML in Music Signal Processing (Hands-on-session)	Dr. Rajeev Rajan Associate Professor, Dept. of Electronics and Commn. Engg. Govt. Engg. College, Barton Hill, TVPM
	01:00 p.m.- 01:45 p.m. - LUNCH		
	1:45 p.m. to 3:00 p.m.	Deployment of DL Algorithms on Embedded Systems-A Practical Approach	Mr. Srijith C S Senior Project Executive, Head QA/ Engineering Dr. Revathy Sivanandan Engineer, Engineering Keltron Traffic Signals Division
	3:00 p.m.-3:15 p. m. -TEA BREAK		
3:15 p.m. to 4:30 p.m.	Inspiring students in the classroom	Dr. Joju John Principal, Mar Theophilus Training College, TVPM	
02-02-2024 Friday	09:30 a.m. - 10:45 a.m.	Semi-supervised and weakly supervised methods for Semantic segmentation	Dr. Deepu Vijayasenan Associate Professor, Dept. of Electronics and Communication Engg., NITK, Surathkal
	10:45 a.m.-11:00 a. m. -TEA BREAK		
	11:00 a. m. -12:45 p.m.	Semi-supervised and weakly supervised methods for Semantic segmentation	Dr. Deepu Vijayasenan Associate Professor, Dept. of Electronics and Communication Engg., NITK, Surathkal
	01:00 p.m.- 01:45 p.m. - LUNCH		
	1:45 p.m. to 3:00 p.m.	Real time object detection using Jetson nano - a case study	Dr. Santhoshkumar S Professor & PG Dean Govt. Engg. College, Idukki
	3:00 p.m.-3:15 p. m. -TEA BREAK		
3:15 p.m. to 4:30 p.m.	Feedback/Valedictory function		