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 Engg. IISc, 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*

Date	Time	Topic	Speaker
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**	