## Emerging Methods for Early Detection of Forest FiresTeam ID:PNT2022TMID43256

S. N o	Title	Author	Yea r	Short abstract	Dataset	Performan cemetrices	Future work suggeste d	Algorithm
1	FOREST FIRE DETECTIO N USING MACHINE LEARNING	Georgie Vadakkada thu Rajan, Sinumol Paul	202	The detects the forest fire by sending video alerts which are more accurate and efficient,s elfbuild video frames are used as dataset and the input is tested and validate accurately.	Self built dataset containi ng video frames	The system detected accuracy rate of 93% and error rate of 2.3% chance of fire and and small fire1.8% and no fire 1%.	Increase the efficiency of Detected small fires	Convoluti onNeural Network.
2	Fire-Net: A Deep Learning Framewo rkfor Active Forest Fire Detectio n	Seyd Teymoor Seydi,Vahid eh Saeidi,Bahar e h Kalantar,Na onori Ueda,and Alfian Abdul Halin	202	Landsat imagery8 was used for detection of active fire and burning biomass .Optical and thermal modalitie	Image were are taken from Australi an and North Americ a n forests regions, the Amazo	The system has overall accuracy of 97.35%,22 tiles were used as dataset where 14 used for training,3	More datasetand more parameter s have to be analysed	Fire-Net

				s were used for effective detectio m	n rainfore st , Centra lAfrica and Chern ob yl (Ukrain e)	for validation and 5 for testing		
3	Riau Forest Fire Predictio n using Supervis ed Machine Learning	Benny Sukma Negara,Risk Y Kurniawan, Maizurah Nazri, SN H S Abdullah	202	The number of hotspot of forest fire had been increase din Indonesi a ,in order to overcom e that early detectio n of forect fire	1733 weathe r data were using in 5years while devolo ping.	BN outperfor ms DT with accuracy rateand RMSE value in pairsof 99.62% and 0.076, and 93.18%	Compariso ns of algorithm with various algorithm are required.	Bayesian Network(B N ) and Decisio n Tree(D T).

				were introduc ed.		and 0.244 subsequen tly		
2	Forest Fire Predictio n Using Machine Learning Techniqu es	Suvarna Kanakaradd i,Aishwarya Beelagi,Sum al ata Malagi,Aish warya Sudi	202	An approach using meterioogical Parameters linke temperature, Rain, winf and humidity parameters were used for detection of forest fires usingsatellite	Fire affecte d region is predict ed based onthe satellite images Were used as	It gives best result of Mean absolute error(MA E) 0.03, Mean squared error(MSE ) 0.004, Root mean	Can be performe d on various other paramete rs.	Decision Tree,Rand o m Forest,Su pp ort vector machine, Artificial Neural Networks

	images and	dataset	squared	
	use averaging		error(RMS	
	to perfect		R)0.07	
	accuracy.			