IEEE CICT 2019 Technical Sessions

S-2 (SIVP) Date - December 06, 2019 Time - 04:45 PM - 6:15 PM Venue: 5055			
Presenter	Organization	Title	Authors
	PDPM Indian Institute of Information and	Glaucoma Detection using Fuzzy C-means	
	Technology, Design and Manufacturing,	Optic Cup Segmentation and Feature	
Rakshita Karmawat	Jabalpur	Classification	Rakshita Karmawat, Neha Gour and Pritee Khanna
	ABV-Indian Institute of Information	Ultrawideband printed monopole antenna	Ayush Mandloi, Ushnesha Daripa, Mukta Sharma and Mahua
Ayush Mandloi	Technology and Management	for X band and 5G applications	Bhattacharya
		A Machine Learning Algorithm for No	
Viruthiles C	IIITDM Kanahaanuram		Kiruthika S. Masilamani V.
KITULITIKA S	III i Divi Kancheepuram		Kirutiika 5, Masiiamani V.
	Indian Institute of Information Technology		Bulla Rajesh, Mohammed Javed, Ratnesh and Shubham
Rulla Paiech			Srivastava
Dulla Rajosti	Allahabad		Onvastava
	Indian Institute of Information Technology		
Sudharson S			Sudharson S. and Priyanka Kokil
	2 coign and manageding		Neelam Dwivedi, Dushyant Kumar Singh and Dharmender
Neelam Dwivedi	MNNIT Allahabad, Prayagrai		Singh Kushwaha
	Madan Mohan Malaviva University of		
Pawan Kumar Mall	Technology, Gorakhpur		Pawan Kumar Mall, P K Singh and Divakar Yadav
	Presenter Rakshita Karmawat Ayush Mandloi Kiruthika S Bulla Rajesh Sudharson S. Neelam Dwivedi	Presenter Organization PDPM Indian Institute of Information and Technology, Design and Manufacturing, Jabalpur ABV-Indian Institute of Information Technology and Management Kiruthika S IIITDM Kancheepuram Indian Institute of Information Technology, Allahabad Indian Institute of Information Technology, Design and Manufacturing Neelam Dwivedi MNNIT Allahabad, Prayagraj Madan Mohan Malaviya University of	Presenter Organization PDPM Indian Institute of Information and Technology, Design and Manufacturing, Jabalpur ABV-Indian Institute of Information Ayush Mandloi Technology and Management ABV-Indian Institute of Information Technology and Management Ultrawideband printed monopole antenna for X band and 5G applications A Machine Learning Algorithm for No Reference Image Quality Assessment using Non-Subsampled Contourlet and Curvelet Transform IllITDM Kancheepuram Ultrawideband printed monopole antenna for X band and 5G applications A Machine Learning Algorithm for No Reference Image Quality Assessment using Non-Subsampled Contourlet and Curvelet Transform DCT-CompCNN: A Novel Image Classification Network Using JPEG Compressed DCT Coefficients Abnormality classification in the kidney ultrasound images using singular value decomposition features Neelam Dwivedi MNNIT Allahabad, Prayagraj Weapon Classification using Deep Convolutional Neural Network GLCM Based Feature Extraction and Medical X-RAY Image Classification using

TS-3 (W	CIT) Date - December	r 06, 2019 Time - 04:45 PM - 6:15 PM	Venue: 5054	
Paper ID	Presenter	Organization	Title	Authors
21	Anmol Tigga	NIT Puducherry	Towards a Vehicle's behavior monitoring and Trust Computation for VANETs	Anmol Tigga and Arun Raj Kumar Parthiban
26	Shikha Maurya	PDPM-IIITDM JABALPUR	On Robust Precoder Design for Energy- Efficient MIMO-Cognitive Relay Networks	Shikha Maurya and Matadeen Bansal
31	Palash Kundu	Jadavpur University	Improving Spectral Efficiency for Device-to- Device Data Offloading in Underlay Cellular Networks	Palash Kundu, Mohit Mahata, Manoj Rana and Bhaskar Sardar
51	Arpit Mishra	PSIT	An Authenticated and Secure Electronic Health Record System	Varun Shukla, Anchal Yadav and Arpit Mishra
56	Rahul Prakash	Bipin tripathi Kumaon Institute of Technology, Dwarahat Almora, Uttarakhand	Optimized Hybrid Clustered Protocol for IoT Heterogeneous Wireless Sensor Networks	Rahul Prakash, Parul Kansal, Varun Kumar Kakar
113	Anubhav Shivhare	Indian Institute of Information Technology, Allahabad	Spatial Correlation Based Device Level Clustering for IoT	Anubhav Shivhare, Manish Kumar Maurya, Vatsal Saglani, Manish Kumar and Ajay Kumar Bharti
150	Arti Gupta	Indian institute of information Technology, Allahabad	Reinforcement learning based energy management in wireless body area network: A Review	Arti Gupta, Manish Kumar Maurya and Vijay Kumar Chaurasiya
171	Gagandeep Kaur	ABV-Indian Institute of Information Technology and Management, Gwalior	Energy Conservation Schemes for Wireless Sensor Networks:Survey	Gagandeep Kaur, Mahua Bhattacharya and Prasenjit Chanak
36	Nidhi Singh	Madan Mohan Malaviya University of Technology, Gorakhpur	Efficient Method for Data Synchronization in Mobile Database	Nidhi Singh and Muzammil Hasan

TS-4 (CI8	ML) Date - Decembe	r 06, 2019 Time - 04:45PM-6:15PM V	/enue: 5007	
Paper				
ID	Presenter	Organization	Title	Authors
			AN INTRODUCTION AND REVIEW ON	
			MACHINE LEARNING APPLICATIONS IN	
42	Preeti Singh	MMMTU, Gorakhpur, India	MEDICINE AND HEALTH CARE	Preeti Singh, S. P. Singh and D. S. Singh
		Mukesh Patel School of Technology	DEFECT CLASSIFICATION FOR SILK	
		Management & Engineering, NMIMS	FABRIC BASED ON FOUR DFT SECTOR	
58	Shweta Loonkar	University, Mumbai	FEATURES	Shweta Loonkar and Dhirendra S
		Atal Bihari Vajpayee Indian Institute of	Emergency Signal Classification for the	
		Information Technology and Management	Hearing Impaired using Multi-channel	Swarup Padhy, Juhi Tiwari, Shivam Rathore and Neetesh
80	Swarup Padhy	(ABVIIITM) Gwalior	Convolutional Neural Network Architecture	Kumar
			Malaria Parasite Recognition in Thin Blood	
		ABV-Indian Institute of Information	Smear Images using Squeeze and	Dr Somesh Kumar, Shivendra Pratap Singh, Prakhar Bansal
88	Dr Somesh Kumar	Technology & Management Gwalior	Excitation Networks	and Pankaj Srivastava
			DEVELOPMENT OF AN IMPROVED	
			TOMATO LEAF DISEASE DETECTION	
91	Manpreet Kaur	punjabi university	AND CLASSIFICATION METHOD	Manpreet Kaur
				Nairit Banerjee, Anmol Singh Sethi, Manavdeep Singh, Srisha
		Indian Institute Of Information Technology,	Mitosis Detection Using Image	Anagh G, Upendra Badnena Svvr, Artus Krohn-Grimberghe
107	Nairit Banerjee	Allahabad	Segmentation and Object Detection	and Ranjana Vyas
			Early classification of time series based on	
120	Anshul Sharma	Indian Institute of technology (BHU)	uncertainty measure	Anshul Sharma and Sanjay Kumar Singh

			Regularised Encoder-Decoder	
		Indian Institute of Information Technology,	Architecture for Anomaly Detection in ECG	
148	Ashutosh Chandra	Allahabad	Time Signals	Ashutosh Chandra and Rahul Kala
157	Upendra Pratap Singh	Allahabad	Zero Shot Learning using Active Learning	Kumar and Krishna Pratap Singh
	Sri Lanka Institute of Information			Shalini Perera, Sathya Dissanayake, Sehan Desilva, Dinithi
72	Shalini Perera	Technology	Supply and Demand Planning Of Electricity	Fernando and Windhya Rankothge
TS-5 (SI)	VP) Date - December 0	7, 2019 Time - 11:45 AM - 1:30 PM V	/enue: 5055	
Paper				
ID	Presenter	Organization	Title	Authors
	Sameeksha	Jaypee University of Engineering and		
123	Shrivastava	Technology, Guna, M.P.	Partitioned Based Image Segmentation	Sameeksha Shrivastava and Ajay Kumar
			An Approach for Human Machine	
			Interaction using Dynamic Hand Gesture	
125	Mohd. Aquib Ansari	MNNIT ALLAHABAD, PRAYAGRAJ	Recognition	Mohd. Aquib Ansari, Dushyant Kumar Singh
		Indian Institute of Information Technology,	PSNet: Parametric Sigmoid Norm Based	
135	Yash Srivastava	Sri City, Chittoor, Andhra Pradesh, India	CNN for Face Recognition	Yash Srivastava, Vaishnav Murli and Shiv Ram Dubey
	Madhuchhanda	Indian Institute of Information Technology	Automated Helmet Detection for Multiple	Madhuchhanda Dasgupta, Oishila Bandyopadhyay and
151	Dasgupta	Kalyani	Motorcycle Riders using CNN	Sanjay Chatterji
			An Enhanced Criterion for Induced H inf.	
			Stability of Discrete-time Systems with	
	14.1	Motilal Nehru National Institute of	Time-varying Delay and External	Kalpana Singh, Dinesh Chaurasia and V. Krishna Rao
158	Kalpana Singh	Technology, ALLAHABAD	Disturbance	Kandanvli
			Fusion of Heterogeneous Range Sensors	
400	Malacia IZ Obert	Notice the Control of Test and the Built	Dataset for High Fidelity Surface	M 1 1 / C' 1
162	Mahesh K Singh	National Inatitute of Technology Delhi	Generation	Mahesh K Singh
			A . Ol	
400	Arthi R.	IIITDM Kanahaanuram	An Observer based FLL to Estimate the Grid Parameters of Three Phase Systems	Arthi D. Arun K and Calvaireathi K
166	AIUII K.	IIITDM Kancheepuram	,	Arthi R., Arun K and Selvajyothi K
		Indian Institute of Information Testantary	LEDCOM: A Novel and Efficient LED Based Communication for Precision	
1.40	K V Sai Vineeth	Indian Institute of Information Technology, Sri City, Chittoor, Andhra Pradesh, India	Agriculture	K V Sai Vineeth, Raja Vara Prasad and Shiv Ram Dubey
140	n v Sai villeetti	on Oity, Onitioor, Andria Frauesti, India	ŭ .	Shekar B H and Rathnakara Shetty P, Leonid Mestetsky
			Stacked Filter Bank based descriptor for Human Action Recognition from Depth	Manju Prasad M
74	Manju Prasad M	Mangalore University, Karnataka.	Sequences	marija i radad ivi
74	ivianju Frasau IVI	iviangaiore University, Namatana.	Optimizing Driver Assistance Systems for	
		NIT,Surat	Real-Time performance on Resource	
46	Ojas Ramwala	INT, Outat	Constrained GPUs	Ojas Ramwala, Dr. Chirag N. Paunwala and Mita Paunwala
40	Ojas Karriwaia		Outstrained Of Us	Ojas Marriwaia, Dr. Oriiray N. Fauriwaia anu ivilla Fauriwaia

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TS-6 (NIS	-6 (NIS) Date - December 07, 2019 Time - 11:45 AM-1:30 PM Venue: 5006			
Paper ID	Presenter	Organization	Title	Authors
35	Srikar Paida	Pandit Dwarka Prasad Mishra, Indian Institute of Information Technology, Design and Manufacturing, Jabalpur	Certificate-less Public Key Encryption For Secure e-Healthcare Systems	Srikar Paida, Mayank K. Aditia, Fahiem Altaf and Soumyadev Maity
38	Nitish Andola	Indian Institute of Information Technology, Allahabad	SHEMB:A secure approach for healthcare management system using blockchain	Nitish Andola, Raghav Gahlot, Sourabh Prakash, Venkatesan Subramanian and Shekhar Verma
73	Shailendra Tomar	Raja Ramanna Center for Advanced Technology	Investigations on Equal Cost Multi Path Feature in Dynamic Routing Protocols in IPv6 Networks	Shailendra Tomar, Anil Rawat, Prakash D Vyavahare and Sanjiv Tokekar
75	Raghav Gahlot	Indian Institute of Information Technology, Allahabad	Tamper-Proof Certificate Management System	Raghav Gahlot, Nitish Andola, S. Venkatesan and Shekhar Verma
82	Pratyush Ranjan	Atal Bihari Vajpayee-Indian Institute of Information Technology and Management, Gwalior	Decentralised and Distributed System for Organ/Tissue Donation and Transplantation	Pratyush Ranjan, Shubhanker Srivastava, Vidit Gupta, Shashikala Tapaswi and Neetesh Kumar
108	Ankur Shukla	Norwegian University of Science and Technology, Gjøvik	Vulnerability Discovery Modelling With Vulnerability Severity	Ankur Shukla, Basel Katt and Livinus Obiora Nweke
141	Anand Joshi	University of Lucknow	A new method of multi color image encryption	Anand Joshi and Dhanesh Kumar
167	Akhilesh Panchal	IIIT-Allahabad	REHR: Residual Energy based Hybrid Routing Protocol for Wireless Sensor Networks	Akhilesh Panchal and Rajat Singh
109	Pradeep Singh	National Institute of Technology, raipur	Stacking Based approach for prediction of faulty modules	Pradeep Singh
181	Arvind Singh	SAG, DRDO, DELHI	Power Attack on VHDL Implementation of Continuously Running Block Ciphers	Arvind Singh and Sp Mishra

TS-7 (CT	IS-7 (CTS) Date - December 07, 2019 Time - 04:45 PM-6:15 PM Venue: 5006				
Paper	aper				
ID	Presenter	Organization	Title	Authors	
		Indian Institute of Information Technology	FIR Filter Realization Under the Trade-Off Between Implementation Complexity and		
65	Abhishek Kumar	Allahabad	Computation Rate	Abhishek Kumar and Suneel Yadav	
		Indian Institute of Information Technology	Physical Layer Security in Intervehicular Cognitive Relaying Communication		
67	Anshul Pandey	Allahabad	Systems	Anshul Pandey and Suneel Yadav	
95	Amiya Kumar Mondal		Thinning of Concentric Circular Antenna Array Using Binary Salp Swarm Algorithm	Amiya Kumar Mondal and Prerna Saxena	

		Performance Evaluation of Non-orthogonal	
	Indian Institute of Information Technology	Multiple Access in V2V communications	
102 Neha Jaiswal	Allahabad	Over Double-Rayleigh Fading Channels	Neha Jaiswal and Neetesh Purohit
		UWB Monopole Antenna with Triple-Band	
147 Abhishek Patel	PDPM IIITDM Jabalpur, Madhya Pradesh	Notch Rejection	Abhishek Patel and Manoj Singh Parihar
		Tuning of Passbands in Compact	
	Indian Institute of Information Technology	Substrate Integrated Waveguide	
163 Soumit Chaudhury	Allahabad	Bandpass Filter using perturbation slot	Soumit Chaudhury, Seema Awasthi and Rajat Singh

TS-8 (CP	CI+RAI) Date - Decen	nber 07, 2019 Time - 04:45 PM-6:15PM	Venue: 5007	
Paper ID	Presenter	Organization	Title	Authors
	Subhasis Mukhopadhyay	C3I Center, Indian Institute of Technology, Kanpur, India	Cyber Risk Assessment of Networked Cyber Assets using Probabilistic Model Checking	Anand Handa, Subhasis Mukhopadhyay, Shankhadip Mallick, Nitesh Kumar, Sandeep K. Shukla, Remish L. Minz, Sanjana Pai Nagarmat and Ramesh Rakesh
76	Vinay Mahore	Indian Institute of Information Technology, Allahabad	Secure and Privacy Focused Electronic Health Record Management System using Permissioned Blockchain	Vinay Mahore, Priyanshi Aggarwal, Nitish Andola, Raghav Gahlot and S. Venkatesan
92	Gaganjeet Reen	IIIT Allahabad	Decentralized Patient Centric e-Health Record Management System using Blockchain	Gaganjeet Reen, Manasi Mohandas and Venkatesan S
110	Himank Goel	IIIT Allahabad	Three Phase Authentication Protocol for Smart Grid Communication	Himank Goel, Ayush Gupta, Harshit Jain, Aashutosh Khandelwal, Harsh Jain, Ayush Sinha and Om Prakash Vyas
111	Aida Akbarzadeh	Norwegian University of Science and Technology	Cyber-Physical Interdependencies in Power Plant Systems: A Review of Cyber Security Risks	Aida Akbarzadeh, Pankaj Pandey and Sokratis Katsikas
112	Sabarathinam Chockalingam	Institute for Energy Technology	Developing a Bayesian Network Framework for Root Cause Analysis of Observable Problems in Cyber-Physical Systems	Sabarathinam Chockalingam and Vikash Katta
84	Gaurav Bhardwaj	IIT ROORKEE	An Unsupervised Neural Network Approach for Inverse Kinematics Solution of Manipulator following Kalman Filter based Trajectory	Gaurav Bhardwaj, N. Sukavanam, Ruchi Panwar and R. Balasubramanian

aper				
)	Presenter	Organization	Title	Authors
		MADAN MOHAN MALVIYA UNIVERSITY	Flash Translation Layer and its	
39	Shweta	OF TECHNOLOGY	functionalities	Shweta and Pradeep Kumar Singh
			Towards comparison of real time stream	
53	Devesh Kumar Lal	scsit davv	processing engines	Devesh Kumar Lal and Ugrasen Suman
99	Lakshya Priyadarshi	Institute of Engineering and Technology, Lucknow	Noise Analysis of Quantum Approximate Optimization Algorithm on Weighted MAX- CUT	Lakshya Priyadarshi and Utkarsh Azad
106	Sunil Datt Sharma	Jaypee University of Information Technology, Waknaghat, H.P.	MODEL INDEPENDENT METHOD FOR ACCEPTOR SPLICE SITE PREDICTION IN DNA SEQUENCES	Sunil Datt Sharma, Sanjeev Narayan Sharma and Rajiv Saxena

TS-10 (N	S-10 (MSD) Date - December 08, 2019 Time - 10:45 AM-11:30 AM Venue: 5007			
Paper ID	Presenter	Organization	Title	Authors
87		REWA ENGINEERING COLLEGE,REWA (M. P.)	ULTRA LOW POWER HIGH GAIN HIGH SPEED OTA	Samiksha Singh, Aman Singh, Akash Bahetra and Layak Yadav
98	Tangudu Bharat Kumar	Malaviya National Institute of Technology Jaipur	Design Automation of 5-T OTA using gm/ID methodology	Tangudu Bharat Kumar, Gaurav Kumar Sharma, Arun Kishor Johar, Deepak Gupta, Sougata Kumar Kar and Dharmendar Boolchandani
138		Department of Electronic Engineering, Howard College, University of KwaZulu- Natal, Durban - 4041, South Africa	CSDG MOSFET Based Linear Voltage Regulator: A Mixed Signal Device Perspective	Okikioluwa E. Oyedeji and Viranjay M. Srivastava
142	Deepak Gupta	MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR	A Comparison of Multi Chopper Amplifiers for Capacitive MEMS Transducer	Deepak Gupta, Gaurav Sharma and Dharmendar Boolchandani
159		Motilal Nehru national Institute of technology Allahabad	Electronically Tunable First Order Universal Filter based on CCDDCCTA	Priyanka Singh, Vikrant Varshney, Ankur Kumar and Rajendra Kumar Nagaria
178	Pratosh K. Pal	M M M U T Gorakhpur	Impact of Channel Doping Fluctuation and Metal Gate Work Function Variation in FD- SOI MOSFET for 5nm BOX Thickness	Pratosh K. Pal, Vikrant Varshney Ankur Kumar Rajendra K. Nagaria, Avaneesh Kumar Dubey

TS	-11 Pr	nD Symposium	Date - December 08, 2019	Time - 10.45 AM-1:30	PM Venue: 5055
	aper				
II)	Presenter	Title		

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201 Dr. Dheeraj Malhotra	AN INTELLIGENT APPROACH TO DESIGN A PERSONALIZED SEARCH SYSTEM USING NEXT GENERATION BIG DATA ANALYTICS
202 A.Anath	Error Analysis of Space Shift Keying Systems
203 ANIRUDDHA DEY	STUDIES ON FEATURE EXTRACTION AND FUSION TECHNIQUES FOR FACE RECOGNITION
204 Satish K. Tiwari	Estimation and Optimization of Design Parameters in Diffusive Molecular Nanonetworks
205 Priyanka Mishra	STUDY AND PERFORMANCE EVALUATION OF QUASI AND ROTATED QUASI ORTHOGONAL SPACE TIME BLOCK CODED MIMO SYSTEMS WITH ADVANCE DETECTOR SCHEME UNDER VARIOUS MODULATION TECHNIQUES
206 Nikhil Agarwal	Design of Nearly Linear Phase Infinite Impulse Response Filters using Evolutionary Techniques
207 Sudhanshu Gonge	Performance enhancement of digital watermarking techniques for security of still image
208 Chengathir Selvi	VIDEO BASED FACE RECOGNITION FOR BIOMETRIC AUTHENTICATION

TS-12 (IS&HCI+NLP) Date - December 08, 2019 Time - 11.45 AM-1:30 PM Venue: 5006							
Paper ID	Presenter	Organization	Title	Authors			
48	Ashish Srivastava	MIT Academy of Engineering	Undani – A System for Enhanced Farming	Ashish Srivastava, Rahul Mahajan, Dnyandeep Sagar and Pratik Shende			
126	Thirundi Perera	SLIIT	Film Shooting Scheduler	Thirundi Perera, Malith Senarath, Ravindu Viduranga, Chathuranga Wijayananda and Windhya Rankothge			
133	Bhanu Pratap Singh Ba	Indian Institute of Information Technology Kalyani	Analysis of Multitasking in Divided Attention using Machine Learning	Bhanu Pratap Singh Bankoti, Chandra Shekhar Gupta, Oishila Bandyopadhyay and Mallika Banerjee			
161	Ashish Singh Patel	International Institute of Information Technology – Naya Raipur	RealTime Tracking and Vehicle Monitoring in Surveillance Video	Ashish Singh Patel, O. P. Vyas and Muneendra Ojha			
165	Ankita Srivastava	Motilal Nehru National Institute of Technology Allahabad	Quality-of-Service based Reliable Route Discovery using Ant Colony Optimization for VANET	Ankita Srivastava, Arun Prakash and Rajeev Tripathi			
49	Sahinur Laskar	National Institute of Technology Silchar	Neural Machine Translation: English to Hindi	Sahinur Laskar, Abinash Dutta, Partha Pakray and Sivaji Bandyopadhyay			
85		Jaypee University of Engineering and technology, Guna, M.P.	Investigating the Challenges and Methodologies of Sentiment Analysis: A Review	Mayank Shrivastava and Shishir Kumar			
104	Mudasir Ahmad Wani	Norwegian University of Science and Technology	A Language-independent gender classifier for Online Social Networks	Mudasir Ahmad Wani, Nancy Agarwal, Patrick Bours, Suraiya Jabin and Syed Zeeshan Hussain			
77	Tushar Goswamy	IIT Kanpur	Defocus based Novel Keyboard Design	Priyanshu Gupta, Tushar Goswamy, Himanshu Kumar and K.S. Venkatesh			
179	S Denis Ashok	Vellore Institute of Technology, Vellore	A color similarity based thresholding approach for buried land mine detection in thermal images	S Denis Ashok Bhanshidhar Majhi K Senthil Kumaran			

TS-13 Miscellaneous Papers		Date - December 08, 2019 Time - 11.45 AM	M-1:30 PM Venue: 5007	
			Classification of arrhythmia using time-	
		BHARATI VIDHYAPEETHS COLLEGE	domain features and support vector	
10)1 Mohit Dhaka	OF ENGINEERING, NEW DELHI	machine	Mohit Dhaka and Porus Khetarpal

Technical Session Information

T00.T05	SIVP= Signal Image and Video	TCO	CDD CC Cloud & Dia Data . Committee & auftures			
TS2+TS5	Processing	TS9	CBD+CS=Cloud & Big Data + Computer & software			
	WCIT= (Wireless Communication and					
TS3	Internet of Things)	TS10	MSD= Mixed Signal design			
TS4	CI&ML= Computational and ML	TS11	PhD Symposium			
			IS&HCI+NLP= Intelligence system and HCI+ Natural			
TS6	NIS=Networks and Information Security	TS12	Language processing			
	CTS= Communication Technology and					
TS7	systems	TS13	Miscellaneous Papers			
	CPCI= Cyber F	Physical Security in Critical	Infrastructure+ RAI(Robotics and Artificial intelligence)			
TS8						

