



RASHTREEYA SIKSHANA SAMITHI TRUST

RV COLLEGE OF ENGINEERING®

(Autonomous Institution affiliated to VTU, Belagavi)

R.V. Vidyaniketan Post, 8th Mile, Mysuru Road, Bengaluru – 560059

4th IEEE International Conference on Computational Systems and Information Technology for Sustainable Solutions (CSITSS 2021) 16th to 18th DEC 2021

The conference emphasizes contemporary research works that enable building sustainable solutions in the domains of Social Networks, Mobile, Analytics, Cloud computing, and Communications (SMACC). The conference has been held successfully for the past four years with participants from all over India and abroad. Quality research papers are accepted and published in IEEE digital library and selected papers in Scopus. The present version of the CSITSS-2021 aims to achieve higher standards by attracting original research works in SMACC. International speakers will deliver the keynote talks on the latest happenings in the domains. The CSITSS-2021 ensures to provide a platform for researchers around the globe for knowledge exchange and networking. Our proud Sponsors for the conference are IEEE, IBM, Nokia, Orbit and Career labs in partnership with BYJU's The Learning App.

This conference was held on 16th to 18th DEC 2021. As part of these three-days, schedule with the events and paper presentation sessions are briefed below: First day on 16th December tutorial session were conducted online in three tracks as per the following schedule.

Venue: CSE Seminar Hall

CISCO WebX Link:	https://rvce.webex.com/rvce/j.php?MTID=mb71245687f575c1a8ef5bdce83042ad		
Time	Topic	Speaker	Session Coordinator
10.00 am to 11.15 am	Mobile, Cloud, and Social Media Forensics: New Trends in Cybercrime Investigations	Dr. Dinesh H A Professor & HoD, Dept. of CSE, NCET, Bangalore Founder and Director, Cybersena (R&D) India Private Limited	Dr. Poonam Ghuli Associate Professor, Dept. of CSE, RVCE
11.15 am to 11.30 am: Tea Break			
11.30 am to 12.45 pm	Social Analytics and Visualization for Smart Rural Solutions	Dr. Sailesh Iyer, Professor and Dean, CSE/IT Dept., Rai School of Engineering Rai University Ahmedabad	Dr. Poonam Ghuli Associate Professor, Dept. of CSE, RVCE
1.00 pm to 2.00 pm: Lunch break			
2.00 pm to 3.15 pm	Social Networks Security issues and challenges	Dr. Bhawana Rudra, Asst. Professor, NITK, Surathkal	Dr. Sandhya S Asst. Professor, Dept. of CSE, RVCE
3.15 pm to 3.30 pm: Tea Break			
3.30 pm to 4.30 pm	Building The 'Cogno' Web Observatory	Dr. Raksha, P S, AI and R&D Specialist Accenture Research Lab, Bangalore	Dr. Sandhya S Asst. Professor, Dept. of CSE, RVCE

Topic: Trends in Next Generation Communication

Venue: ECE /TCE Seminar Hall

CISCO WebX Link:	https://rvce.webex.com/rvce/j.php?MTID=mfd057c7f208bee3f005838a51e63e2eb		
Time	Topic	Speaker	Session Coordinator
10.00 am to 11.15 am	India Vision 2050 for Sustainable Netzero Approach	Sir. A T Kishore, IEEE Senior Member CEO Vidhya Sangha Technologies PVT LTD Director & Strategy Partner	Dr. Nagaraj Bhat Asst. Professor, Dept. of ECE, RVCE.
11.15 am to 11.30 am: Tea Break			
11.30 am to 12.45 pm	Integrated Terrestrial and Nonterrestrial Communication	Dr. Navin Kumar, Associate Professor Amrita School of Engineering, Fellow IE (India),Sr. Member IEEE, IET(UK), IAENG(HK), IETE (India) Global ICT Standardization Forum for India (GISFI)	Dr. Bhagya R Associate Professor, Dept. of ETE, RVCE.
1.00 pm to 2.00 pm: Lunch break			

2.00 pm to 3.15 pm	AI driving 5G Advanced & 6G	Dr. M H Kori, Vice - President, IETE New Delhi, Distinguished Fellow of IETE, Past Chairman IETE Bangalore Centre, Former Technical Director Alcatel- Lucent Technologies, Imdt. past Chairman of International Microelectronics & Packaging Society (IMAPS) India, Past Vice Chairman of IEEE MTT & ED Society.	Sri. Mahendra BM Asst. Professor, Dept. of ECE, RVCE.
3.15 pm to 3.30 pm: Tea Break			
3.30 pm to 4.30 pm	Recent Trends in Broadband Communications	Dr. Ravishankar S, Professor, Department of ECE, RV College of Engineering.	Dr. Bhagya R Associate Professor, Dept. of ETE, RVCE.

Topic: Convergence of Data Analytics, Mobile Towards Cloud

Venue: ISE/MCA Seminar Hall			
CISCO WebX Link:	https://rvce.webex.com/rvce/j.php?MTID=m0c27014c6bea628f9883fe4a8b984dcf		
Time	Topic	Speaker	Session Coordinator
10.00 am to 11.15 am	No Code Analytics Ecosystem	Mr. Bastin Robin Director of AI and Data Science CleverInsight,Bangalore	Dr. Vijayalakshmi.M.N Associate Professor Dept of MCA,RVCE
11.15 am to 11.30 am: Tea Break			
11.30 am to 12.45 pm	Deployment of Cloud Technologies and Convergence Challenges	Mr. Mritunjay Vishwakarma Product Manager, IBM India, Bangalore	Dr.Jayasimha.S.R Assistant Professor, Dept of MCA,RVCE
1.00 pm to 2.00 pm: Lunch break			
2.00 pm to 3.15 pm	Cloud Analytics	Dr.Madhan Kumar Srinivasan Associate Vice President & Lead Accenture Innovation Hub,Bangalore	Dr. Jayasimha.S.R Assistant Professor, Dept of MCA,RVCE
3.15 pm to 3.30 pm: Tea Break			
3.30 pm to 4.30 pm	Security issues on Cloud Technologies	Mr. Manoharan Ramasamy Cloud Security Architect, IBM ,Bangalore Mr.Nilotpall Brahma Cyber Security professional IBM India Software Labs	Dr.Usha.J Professor, Dept of MCA,RVCE



Inaugural Lighting of Lamp by Dignitaries



Release of Proceedings and Souvenir

The inaugural of CSITSS-2021 commenced with invocation by Ms. Namya L G, student, Dept. of Computer Science and Engineering at 9.35 AM on 17th Dec 2021 at IEM Auditorium, RVCE campus, followed by Welcome Address by **Dr. K N Subramanya, Principal, RVCE**. Principal welcomed all the viewers and dignitaries gathered in inaugural which was followed by traditional auspicious ceremony of Lamp lighting by all dignitaries.

Prof. Ramakanth Kumar P, General Chair, CSITSS 2021 did the conference briefings.

Dr. Y Narhari, Professor at Computer Science and Automation, department IISC Bangalore and **Dr. S. S. Iyengar, Distinguished University Professor, Ryder Professor, FIU, Miami, USA** were Chief guests for the inaugural. After the address by chief guest, all the dignitaries on the dias proceeded with release of Proceedings and Souvenir.

Dr. Y Narhari in his inaugural address emphasized on Artificial Intelligence and Machine Learning. **Dr. S. S. Iyengar** in his address spoke about bringing synergy between various industry and academia in transforming Indian economy.

Sri. B. S. Bindhumadhava, Chair, IEEE Bangalore Section and Sc -F & Associate Director, at Centre for Development of Advanced Computing (C-DAC), MeitY, Govt of India Bangalore. spoke on advancing Technology for Humanity. He emphasized on volunteering, learning and Social networking, also funding possibilities from IEEE for developing innovative projects.

Sri D.P. Nagaraj, Honourable Joint Secretary, Rashtreeya Sikshana Samithi Trust T, in his presidential address voiced his support for all research activities and promised to support innovation activities of the institution.

Dr. K. Sreelakshmi, Professor and HOD, Dept. of ETE, RVCE, proposed vote of thanks.

The inaugural ended by 11.45 AM. After a tea break, Keynote sessions were scheduled as follows on same day 17/12/2021 and 18/12/2021 as follows,

KEYNOTE TALKS DETAILS

Date	Time	Topic	Speaker	Organizing Department	Session Coordinator
17th Dec. 2021	11.30 am to 12.00 pm (online)	Polynomial Representation for Persistence Diagram	Prof. Gang Li, Associate professor, IEEE senior member, Deputy director of D2i, school of Information Technology, Deakin University, Australia	CSE	Dr. G.S. Nagaraja, Professor & Associate Dean, Dept. of CSE RVCE
	12.00 pm to 12.45 pm (offline)	6G and its role in building a sustainable society for future	Mr. Satish K, Head of standardization APAC, Nokia Strategy & Technology	CSE	Prof. Prapulla S B Asst. Professor, Dept. of CSE RVCE
	12.45 pm to 1.30 pm	Hybrid Cloud Management	Mr. A B Vijay Kumar IBM Distinguished Engineer Global CTO - Hybrid Cloud Management & Platform Engineering IBM India Ltd.	CSE	Dr. Soumya A Associate Professor, Dept. of CSE RVCE
18th Dec. 2021	9.30 am to 10.30 am (offline)	Hyper Convergence Cloud Infrastructure	Mr. Suresh Narayana Group Technical Manager HCL Technologies	ISE	Dr. G.S. Mamatha Professor & Associate Dean (PG Studies), Dept. of ISE, RVCE
	10.30 am to 11.30 am			MCA	
	11.45 am to 12.45 pm (offline)	Phased Array Antennas and Applications	Dr. Ashutosh Kedar, Scientist F, Active Antennas Array Unit (AAAU) Group, Radar Antennas Microwave Division (RAMD), Electronics & Radar Development Establishment (LRDE), Min of Defence (MoD), DRDO.	ECE+TCE	Dr. Mahesh A, Associate Professor, Dept. of ECE, RVCE

Glimpse of Keynotes sessions

In total, 164 papers were submitted, out of which 83 were accepted. Out of 83 papers, 79 papers are registered and **X** papers are presented. The details of the paper presentation tracks are as follows,

Track No: 1

Date: 17/12/2021

Time: 2:30 PM – 4.30 PM

Mode of

Presentation: ONLINE

Venue: ISE SEMINAR HALL

Sl.No	Paper-ID	Paper Title	Author Name
1	53	Multi thoracic disease classifier using Convolutional Neural Networks	Chetan and B.N. Veerappa
2	64	A detailed Analysis of Lightweight Cryptographic techniques on Internet-of-Things	Shreyas Srinath, Nagaraja G S and Ramesh Shahabadkar
3	67	Eliciting The Requirements Using Use Case Tool and Classifying It Using Machine Learning	Dr. Swarnalatha K.S
4	83	Clinical Data Analysis for Recognizing Named Entities	Rahul C and Merin Meleet.
5	112	Spam Detection in Twitter Data	Dr. Swarnalatha K.S
6	120	An Analytical Study on Consumer Perception for a Product against its Social Media Imprint	Ivy Baroi and Suman De
7	142	Detection of Anomalies in Time Series Data	Supreetha H V, Karthik S and Sandhya S.
8	156	Lessoning Geospatial Visualizations on Real Time Data	Ramachandra Rao Kurada, Ramu Y and Sunil Pattenm

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Track No: 2
Presentation: ONLINE

Date: 17/12/2021

Time: 2:30 PM – 4.30 PM **Mode of**
Venue: MCA SEMINAR HALL

Sl.No	Paper-ID	Paper Title	Author Name
1	11	A Behavioral Analysis of Advanced Security Attacks in Enterprise Networks	Ashwini Kumari M and Nandini Prasad Ks
2	13	Security of Data with Enhanced Technique of DiDrip Protocol for Distributed Systems in Mobile Wireless Sensor Networks	Shifana Begum and Akhilraj V Gadagkar.
3	60	Latin square for Medical Images Cryptography	Nikhil Bhade, Kishan Ms, Anand Sankar, Shruthi SV and Sujith Guttala
4	65	TCP Attack Detection Using Dynamic Threshold	Kavyashree K and Dr. Sowmyarani C N
5	77	A Quantitative Analysis of Cloud Security Practices in IoT Environment	Balavardhan Reddy and Hemanth Kumar V
6	104	Use of Homomorphic Transform in Encryption	Ankit Vishnoi, Dr. Alok Agarwal and Dr. Manish Prateek
7	108	DDoS Attack Detection and Mitigation using Anomaly Detection and Machine Learning Models	Sakshi Vattikuti, Manjunath R Hedge, Manish M, Vineeth Boddavaram and Sarasvathi V.
8	155	PROFCAD: An Algorithm to Detect Anomalies in Cloud Applications for KPI Monitoring Systems	Rameshwar Garg, Chandana Kiran Ambekar and Kaustuv Saha

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Track No: 3
Presentation: ONLINE

Date: 17/12/2021

Time: 2:30 PM – 4.30 PM **Mode of**
Venue: ECE SEMINAR HALL

Sl.No	Paper-ID	Paper Title	Author Name
1	28	A Robust Visible Authenticated Video Watermarking Based on One-to-One Compound Mapping	Sandhya Gumasta, Udaya Kumar Naluguru and Srinivas Bachu.
2	34	Tree Age Predictor Using Augmented Reality and Image Processing Techniques	Sai Surya Pavan Gannamani, Adarsh S, V Shashank, Bharath Shreya M and Srivani P
3	74	Vehicle Number Validation System Using Convolution Neural Networks	Amith R and Kavitha S N
4	90	Decentralized used cars Bidding application using Ethereum	Nikhil Kumar M S and Akshatha G C.
5	97	Detection of autistic individuals using facial images and deep learning	Yukti Khosla, Prerana Ramachandra and Chaitra N.
6	118	Object Size Measurement from CCTV footage using deep learning	Shivaprasad B Rai, Sushma S Ankad and Azra Nasreen
7	119	Video Based Transcript Summarizer for Online Courses using Natural Language Processing	Krishna Kulkarni and Rushikesh Padaki
8	127	A Ddos Prevention System Designed Using Machine Learning For Cloud Computing Environment	Rohitha Skp and Raja Praveen K N
9	152	Artificial Neural Network based automatic classification of target shapes from GPR data	<u>Nairit Barkataki, Anirban Bhattacharjee, Sharmistha Mazumdar, Banty Tiru and Utpal Sarma.</u>

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Track No: 4
of Presentation: ONLINE

Date: 17/12/2021

Time: 2:30 PM – 4.30 PM **Mode**
Venue: CSE RESEARCH LAB

Sl.No	Paper-ID	Paper Title	Author Name
1	36	Blockchain Based HealthCare Management System	Bindu Koravatti and Dr. Indiramma M
2	46	Big Data Analytics Tools: A Comparative Study	Pavithra N and Manasa C.M
3	66	Real Time Cardiac Diagnosis for Arrhythmia Using Machine Learning and IOT	Vani E S and Dr. Swarnalatha K S
4	95	Evaluation of Pavement Roughness Using Smartphones	Ram Thilak, Anjaneyappa V, Jeet Mehta, Vivikt Pharle, Chaturi Rajapur and Sabina Borah
5	109	Data security and recovery approach using elliptic curve cryptography	Srinadh V, Balajee Maram and Daniya T
6	132	HydroIoT: An IoT and Edge Computing based Multi-level Hydroponics System	Sanket Salvi, Savitha S, Samyak Sawargaonkar, Vishwas B, Harshitha T K and Pramod Jain S A
7	133	Analysis of Security Challenges and Issues in IoT Enabled Smart Homes	Sivapriyan R, Sushmitha Sv, Pooja K and Sakshi N.
8	157	IoT-WSWS: An Intelligent Wearable Shield to Provide Security for Women and Children	Subbulakshmi N, Manimegalai R, Manoshika M, Parameswari P and Karthiga V.

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Track No: 5
Presentation: OFFLINE

Date: 17/12/2021

Time: 2:30 PM – 4.30 PM **Mode of**
Venue: CSE SEMINAR HALL

Sl.No	Paper-ID	Paper Title	Author Name
1	33	Detection and Analysis of P2P Malware Detection in IoT Smart Home Applications	Vasumathi Chalasani and Wasim Alhamdani
2	37	An Ambient Noise Analysis Predictive Model for Bengaluru Metropolis Using Noise Descriptors.	Savitha Swamy, Dr. Ravikumar Gk and Dr. Narendra Bk
3	39	Privacy Preserving Image Matching Scheme with Aggregated Local Descriptors	Dhafer G. Honi, Salah Al-Darraj and Ayad I. Abdulsada
4	48	Drunkeness Face Detection Using Gnn	Vighnesh Kamath, Sagar Pai, Shwetha Poojary, Ananth Rastogi and Srinivas K S.
5	49	Machine Learning Techniques for Multisource Plagiarism Detection	Akhil Eppa and Anirudh Murali.
6	68	A CNN Approach To Detect Vanishing Point By Considering Street Lane	Shruthiba A, Deepu R and Amit Dhomne
7	141	Deep Learning based Campus Assistive Chatbot	Bhuvana Shivashankar, Anjana Sundari A M, Hithaishi Surendra, Atul Sai S S and Minal Moharir
8	153	Analysis of Machine Learning Algorithms by Developing a Phishing Email and Website Detection Model	Nimisha Dey, Samhitha S, Malavika Hariprasad, Anagha Anand and Veena Gadad

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Track No: 6
of Presentation: ONLINE

Date: 18/12/2021

Time: 2:00 PM – 4.00 PM **Mode**
Venue: ISE SEMINAR HALL

Sl.No	Paper-ID	Paper Title	Author Name
1	17	An Analysis of Ambiguity Detection Techniques for Software Requirement Specification	Sahana Raikar and Dr. Nagaraj G Cholli.
2	75	An AI based Smart Assistant Chatbot for Knowledge Management System	Rachana G Kummar, Suhas J Shetty, Vishwas S N, Vismith Upadhya P J and Jyoti R Munavalli
3	96	Face Mask Detection And Alert System Using Convolution Neural Networks	Anisha Ghosh, Tushar Shetty and Silviya Nancy J
4	100	Diabetic Retinopathy Prediction using Deep learning	Spoorthi K V and Rekha B S
5	102	A Community Based Study for Early Detection of Postpartum Depression using Improved Data Mining Techniques	Priyanka Mazumder and Dr. Siddhartha Baruah
6	113	A Transfer Learning method for Brain Tumor Classification using EfficientNet-B3 model	Mantha Tejakrishna and Eswara Reddy B
7	128	A Brief Comparision On Machine Learning Algorithms Based On Various Applications: A Comprehensive Survey	Khushi Kumari Jha and Mahesh T R.
8	144	Detection of Plant Leaf-based Diseases Using Machine Learning Approach	Vadiraj P, Rachakulla Mahesh Sarat Chandra, Chaitanya Reddy and Mahesh Tr.

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Track No: 7
of Presentation: ONLINE

Date: 18/12/2021

Time: 2:00 PM – 4.00 PM **Mode**
Venue: TCE SEMINAR HALL

Sl.No	Paper-ID	Paper Title	Author Name
1	42	Monitoring and Alert Systems for Underwater Data Centers using Arduino	Yashas K S, Vishal R and Roopa Ravish
2	47	Effective object detection using Tensorflow facilitated YOLOv3 model	Guru Prasad and Nagaraj G Cholli.
3	87	Design, optimization and simulation of non-resonant slotted waveguide antenna for X-band	Tejaswi Karadi, Sreelakshmi K and Amlesh Kumar Singh
4	88	Security aspect of Wireless Sensor Networks for military applications	Niveditha Minnoor, Pannagashree B S and Sahana B
5	94	Effects of Microstrip Array Failures in a Smart Antenna System for 5G Mobile Communication	Iffath Fawad and Dr. Kumaraswamy H V
6	98	Real Time Laser Tracking	Basavasagar K Patil, Chinmay N, Arjun Rao N and Avinash Pathy
7	114	DevOps based migration aspects from Legacy Version Control System to Advanced Distributed VCS for deploying Micro-services	Alok Aggarwal, Vinay Singh, Amarjeet Singh and Shalini Aggarwal.
8	115	Real-Time Threat Intelligence-block phishing attacks	Dr. Swarnalatha K.S

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Track No: 8
of Presentation: ONLINE

Date: 18/12/2021

Time: 2:00 PM – 4.00 PM **Mode**
Venue: ECE SEMINAR HALL

Sl.No	Paper-ID	Paper Title	Author Name
1	4	Foot Step Power Generation Using Piezoelectric Materials	Abhishek H, Dr. Baswaraj Gadgay and Dr. Shubhangi D.C
2	8	Remote child health monitoring system and personal safety	Maheshwari Company, Dr. Baswaraj Gadgay and Dr. Shubhangi D. C
3	9	Smart Shopping And Programmed Moving Tramcar	Pooja Nagur, Dr Basawaraj Gadgay and Dr Shubhangi Dc
4	14	Design and Implementation of Microwave Sensor for Material Identification	Aishwarya Lagalur.
5	20	Multipurpose Vertical Plotter Machine – MVPM	Sunilkumar Hattaraki, Abhilsh Patil and Sujay Kulkarni.
7	70	SmartZ COVID-19 Smart Door	Srishti Moorthy, Sathvik C, Nidhi K and Badarinath K
8	72	A patient-centric doctor referral model based on hyperledger chaincode	Vinodhini Mani and Prakash M

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Track No: 9
of Presentation: ONLINE

Date: 18/12/2021

Time: 2:00 PM – 4.00 PM **Mode**
Venue: MCA SEMINAR HALL

Sl.No	Paper-ID	Paper Title	Author Name
1	3	VTU campus surveillance and student smart accessibility system using IOT	Abhijeet R, Dr Basawaraj Gadgay and Dr Shubhangi Dc
2	5	AQUA-CUSTODIAN ROBOT	Shivani Patil, Dr. Shubhangi D. C and Dr. Baswaraj Gadgay
3	24	Solving the Lunar Lander Problem using Reinforcement Learning	Rohit Sadavarte, Rishab Raj and Dr Sathish Babu
4	59	Implementation of Audio De-noising using Convolutional Neural Networks on Edge Device.	Deeksha Upadhyay, Sreelakshmi K and Sandeep Yadav
5	86	Smart dry and wet waste management system using IoT	Mahesh Subray Hegde, Sukrutha C Basappa and Nagaraja G S
6	107	Efficient Mask Detection System for Low Powered Micro-Computer	<u>Minal Moharir, Risha Dassi, Nikitha Srikanth, Pavan K R, Shuvam Mitra, Vishal M and Rhushabh Goradia</u>
7	131	Comparative Analysis of Smart Voice Assistants	Sivapriyan R, Sakshi N and Vishnu Priya T
8	164	Model Reduction of Linear Systems by Mixed Techniques using Mihailov Stability Criterion and Differentiation	Deepti Sharma and Alok Aggarwal.

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Track No: 10
of Presentation: OFFLINE

Date: 18/12/2021

Time: 2:00 PM – 4.00 PM **Mode**
Venue: CSE SEMINAR HALL

Sl.No	Paper-ID	Paper Title	Author Name
1	23	E-Waste Detection and Collection assistance system using YOLOv5	Sakshi Kamal, Risha Dassi and B Sathish Babu.
2	62	Financial Trading Agent using Reinforcement Learning for the Indian Stock Market Scenario	Vishal M, Yatin Satija and B Sathish Babu
3	82	Implementation of Single Camera Markerless Facial Motion Capture using Blendshapes	Meghana Rao Somepalli, Sai Charan M.D., Shruthi S and Suja Palaniswamy.
4	117	Sentimental Analysis On Covid-19 Tweets using Bidirectional Encoder Representations Transformers	Deekshitha Jp, Rakshitha Shankar, Shantala Cp and Girish L.
5	140	DDOS Anomaly Detection using Generative Adversarial Network	Girish L, Sridhar K N Rao, Renukananda T D, Vidyashree K S and Hemashree R
6	145	An IoT-Based Smart Wearable Alzheimer's Assisting Device	Siri S N, Divyashree H B and S Pushpa Mala.
7	161	Microwave Single Ring Resonator for Food Sensing	P Manjunath and Shanthi P.

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Glimpse of Paper Presentation sessions