VIGNAN'S
Foundation for Science, Technology & Research
(Deemed to be University)
-Estd. u/s 3 of UGC Act 1956

Department of
Information Technology

2nd International Conference on
Recent Advances in Information Technology (NCRAIT-2020)
(Intelligent Systems)
11-12 December, 2020

Vignan's Foundation for Science, Technology & Research
(Deemed to be University), Guntur, Andhra Pradesh, INDIA

REPORT

The NCRAIT-2020 started with the opening remarks by Dr. N. Veeranajaneyulu, Professor and Convener of the conference. In his opening remarks he mentioned the role of intelligent systems in our day to day lives. Dr. K. V. Krishna Kishore HoD, IT has given inaugural address. In his address, Professor Kishore mentioned various applications of intelligent systems with examples.

University Vice-Chancellor Mr. M. Y. S. Prasad elaborated the need for intelligent systems in developing systems by considering the examples of Boeing 371 flight accident and how to reduce space rocket accidents.

The keynote speaker of the conference Dr. C. Raghavendra Rao, Professor, Department of SCIS, University of Hyderabad mentioned the role of intelligent systems in designing human-less cars. In his address he also mentioned how google and amazon using intelligent systems in developing PDAs and other gadgets.

After this parallel sessions were conducted to present papers of different participants.

For the presentation sessions Dr. K. V. Krishna Kishore, Dr. N. Veeranjaneyulu, Dr. B. Premamayudu, Dr. P. Subbarao, Dr. K. Sujatha, Dr. U. Janardhan Reddy, Dr. Hemanth kumar Bhuyan and Dr. A. Vijayaraj acted as conference chairs.

On the second day Dr. Kota Soloman Raju, Senior Principal Scientist & group leader, Societal Electronics group, CSIR-CEERI, Pilani gave a keynote address on the role of Intelligent systems in designing Internet of Things.

On 12th December 2020, valedictory function was organized and the certificates were distributed to all the participants and the programme ended with the closing remarks of Professor B. Premamayudu.

Programme Schedule

Day 1, Friday, December 11, 2020	
09:30 – 09:40	**Opening Remarks by Dr. N. Veeranjaneyulu**
09:40 – 09:50	**Inaugural addressing by Dr. K. V. Krishna Kishore**
09:50 – 10:00	Address by Hon. Vice-Chancellor: Dr. M.Y. S. Prasad
10:00 – 11:20	**Keynote 1**
Dr. C. Raghavendra Rao, Professor, SCIS, University of Hyderabad	
11:20-11:30	Closing remarks by Dr. B. Premamayudu
11:30-11:45	Break

Session A: 11:45 – 12:45 Parallel Session

Chair : Dr.K.Sujatha

Co-chair : Dr.Hemanth Kumar Bhuyan

Name	Title	Paper Id	Time
G. Ramachandra	Develop New Technologies of IOT Interconnections For Precision Horticulture To Optimize The Management Of Crop Production Or Increasing Efficiency Food Production	NCRAIT2098	11:45-11:55
SIRISHA ASWADHATI	Demonstrate the performance of social Bots in identifying the Malicious Bots based during communication in social media	NCRAIT2031	11:55-12:05
HIMA BINDU GOGINENI	A Report of Machine Learning Algorithms for Health Care Analysis	NCRAIT2035	12:05-12:15
AMOL R KULAKARNI	Predicting Hospital Length of Stay: Feature engineering and Comparative Analysis	NCRAIT2037	12:15-12:25
SANDHYA KRISHNA P	A CONSISTENT ACCESS AUTHENTICATION MODEL FOR IDENTIFICATION OF INTRUSIONS IN A NETWORK	NCRAIT2001	12:25-12:35
MR.K. RAMAKUMAR	Chronic Care Patient Management through advances in Computing	NCRAIT2005	12:35-12:45

Session B: 11:45 – 12:45, Parallel Session

Chair : Dr.B.Premamayudu

Co-chair : Dr.A.Vijaya Raj

Name	Title	Paper Id	Time
Mrs. Sk. Nazma Sultana	Object detection by using edema segmentation technology on mammogram images	NCRAIT2017	11:45-12:00
Mr. D. Anandha Kumar	Survey on Feature Detection from color in image	NCRAIT2043	12:00-12:15
Ms. T. Gayathri	Text classification by using CNN	NCRAIT2019	12:15-12:25
Mr. D. Madhusudhan Rao	A Comparative study on different machine learning algorithms for object detection	NCRAIT2020	12:25-12:35

Mr. B. Naga Sudheer	Activation Functions and Loss Functions in Deep Learning: An Overview Analysis	NCRAIT2031	12:35-12:45
12:45 – 01:45 Lunch			
Session C: 01:45 – 02:45 Session			
Chair : Dr.K.V.Krishna Kishore			
Co-chair : Dr.P.Subba Rao			
Name	**Title**	**Paper Id**	**Time**
Mr. P. Ramadoss	Intrusion Detection System using Data Mining Techniques	NCRAIT2012	1:45-2:00
Mr. K. Sreenivasa Rao	Multimodal biometric traits using various methods: A Comprehensive Study	NCRAIT2040	2:00-2:15
Mr. S. Nyamathulla	Selenium Web Driver Using Python in Software Testing	NCRAIT2014	2:15-2:25
Mr. P. Lokaiah	A comparative study of different image classification methods and techniques in LSTM perspective	NCRAIT2041	2:25-2:35
Mrs. K. Sarada	Opinion Mining Based on Sentiment Translation Using Naive-Bayes Classifier	NCRAIT2030	2:35-2:45
02:45PM - 03:00 PM Break			
Session D: 03:00 PM – 04:00 PM			
Chair : Dr. P. Subbarao			
Co-chair : Dr.U.Janardhan Reddy			
Name	**Title**	**Paper Id**	**Time**
Mr. M. Srikanth Yadav	Network Intrusion Detection with Stacked Autoencoder Based Deep Learning Approach	NCRAIT2026	3:00-3:10
Mr. Y. Gokul	An approach for predicting the interest of consumers in opting different auto manufactures using various machine learning algorithms.	NCRAIT2027	3:10-3:20
Mrs. B. Jyostna Devi	Sentiment Analysis using Stacked LSTM Networks	NCRAIT2062	3:20-3:30
Mrs. K. Gayatri	Analysis of Agricultural Production in India Using Machine Learning Approaches	NCRAIT2029	3:30-3:40
Mr. V. Nagireddy	BREAST CANCER DETECTION BY USING GRADIENT BASED ALGORITHM ON MAMMOGRAM IMAGES	NCRAIT2028	3:40-3:50

Day 2, Saturday, December 12, 2020

10:00 – 10:10 **Opening Remarks by Dr.B.Premamayudu**

10:10 – 11:30 **Keynote 2**

Dr. Kota Solomon Raju, Senior Principal Scientist & Group Leader
Societal Electronics Group, CSIR-CEERI, Pilani

11:30-11:45 Break

Session A: 11:45 – 12:45

Chair : Dr. N. Veeranjaneyulu

Co-chair : Dr. B. Premamayudu

Name	Title	Paper Id	Time
Dr. U. Janardhan Reddy	A Machine Learning based effective medical data analysis using labelled clustering model	NCRAIT2027	11:45-12:00
Dr. K. V. Krishna Kishore	Speech Emotion Recognition using Bidirectional LSTM	NCRAIT2007	12:00-12:15
Dr. K. Sujatha	Development of hybrid model for infectious disease prediction and testing suggestion for better operational health care	NCRAIT2011	12:15-12:25
Dr. P. Subba Rao	Project Management System Using ACEM: Advanced Cost Estimation Model	NCRAIT2006	12:25-12:35
Dr.A.Vijayaraj	Unification of Multiple Bank Cards and Smart Card with Formula Based Authentication in Big Data	NCRAIT2013	12:35-12:45
12:45 – 01:45 Lunch			
Session B: 01:45 – 02:45			
Chair :Dr. P. Subbarao			
Co-chair :Dr. A. Vijayaraj			
Name	Title	Paper Id	Time
Dr. Hemanth Kumar Bhuyan	Development of Secrete Images in Strongbox Using Deep Neural Networks	NCRAIT2022	1:45-2:00
Mr. K. Praveen Kumar	LDA topic modeling based classification of Indian and Western Poetry	NCRAIT2024	2:00-2:15
Mr. Ch. Siva Koteswara Rao	A Survey on Segmentation techniques on Medical Images	NCRAIT2015	2:15-2:25
Dr. B. Premamayudu	Brain Tumor Auto-Segmentation for MRI images	NCRAIT2009	2:25-2:35
Dr. N. Veeranjaneyulu	A novel Approach for Covid-19 diagnosis from chest CT scan images using multiple Convolutional Neural Networks	NCRAIT2021	2:35-2:45
02:45PM - 03:00 PM	Break		
03:00 PM-Valedictory session			

Dr. N. Veeranjaneyulu
Professor, Dept. of IT


VIRTUAL MODE
RECENT ADVANCES IN
INFORMATION TECHNOLOGY
(Intelligent Systems)
Keynote Speakers
CONGRATULATIONS


VIRTUAL MODE
Keynote Speakers
Dr. C. Raghavendra Rao
Prof. SCIS, University of Hyderabad
Dr. Kota Solomon Raju
Senior Principal Scientist & Group Leader,
Societal Electronics Group, CSIR-CEERI, Pilani
Student Achievements, 2019-20
CONGRATULATIONS
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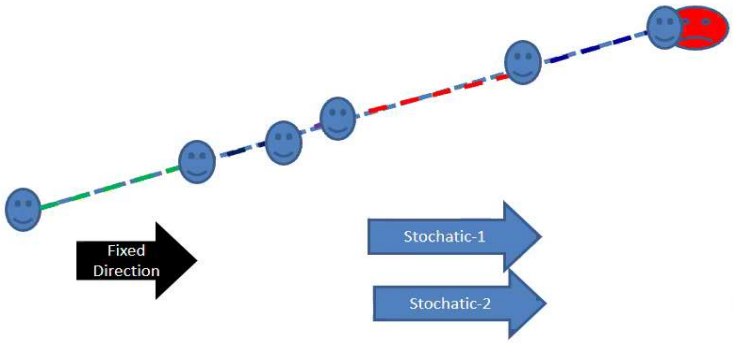
A WhatsApp Massage

- Note the words below. Initially, you will have difficult
  However, gradually your brain will interpret the word
  give a chance for these words to speak to your brain.
- **7H15 M3554G3 53RV35 7O PR0 M1ND5 C4N D0 4M4Z1NG 7H1 1MPR3551V3 7H1NG5! 1N 7H3 17 WA5 H4RD BU7 N0W, 0N Y0UR M1ND 1S R34D1NG 17 4U70M471C4LLY W17H0U7 3V3N 7 4B0U7 17, B3 PROUD! 0NLY C3R7 C4N R3AD 7H15! PL3453 F0RW4 C4N R34D 7H15**
- This is a very good example of a Brain Study: If you can read this, your mind is still young and has no Parkinson Congrats!
- From Dr Justin Jones in Melbourne: This is a REAL Neurological screening Test

Unmute | Stop Video | 70 Participants | Participants (Alt+U) | Share Screen | Record | Reactions | Leave

Recording

Moving towards a Target

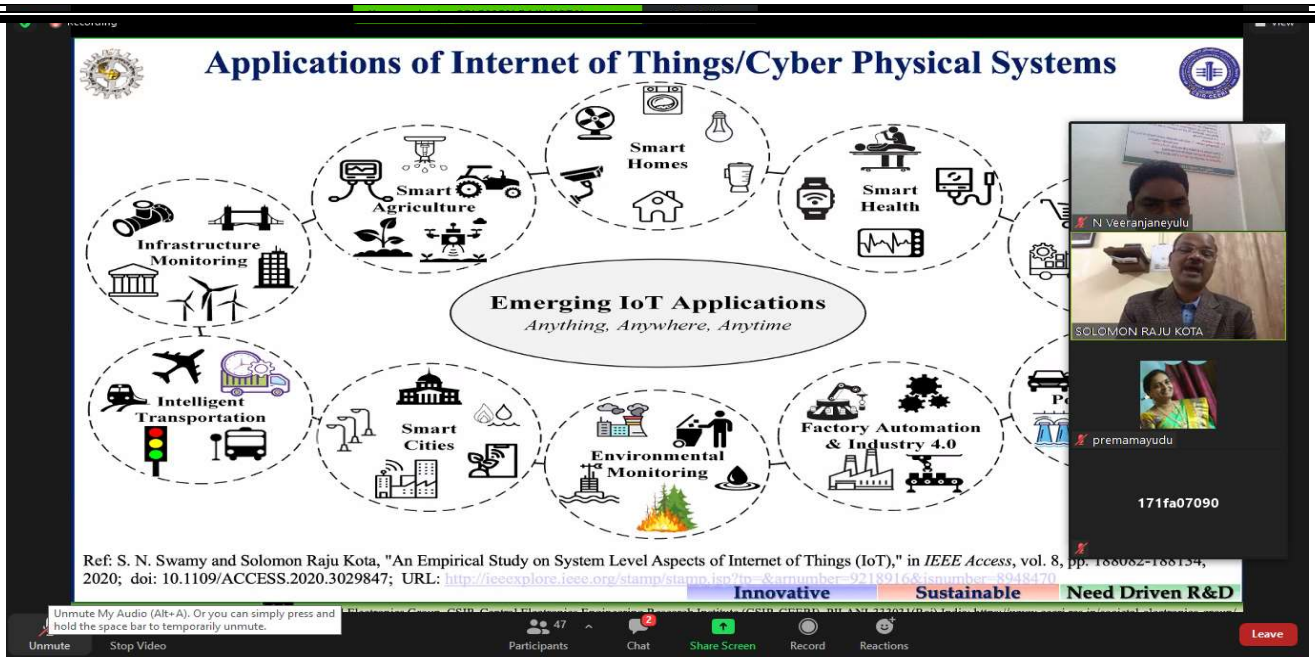


Recording

Outline

- Introduction to Internet of Things (IoT)
  - Current state of art of the functional pillars of IoT and its emerging applicat
- IoT System-Level Design Issues
  - Building blocks of IoT System
  - IoT architecture model
  - IoT and It's related technologies and terminologies
- Communication Standards, and Interoperability
- Computing paradigms
  - Cloud Computing
  - Cloudlet,
  - Fog, and Edge computing
- IoT Privacy and Security Issues
- Operating Systems and RTOS's suitable for IoT
- IoT Computing Platforms
- Open Research Issues in IoT System Development
- Conclusion

Innovative Sustainable Need Driven R&D


Applications of Internet of Things/Cyber Physical Systems
Smart Homes
Smart Agriculture
Smart Health
Infrastructure Monitoring
Emerging IoT Applications
Anything, Anywhere, Anytime
Intelligent Transportation
Smart Cities
Environmental Monitoring
Factory Automation & Industry 4.0
Ref: S. N. Swamy and Solomon Raju Kota, "An Empirical Study on System Level Aspects of Internet of Things (IoT)," in IEEE Access, vol. 8, pp. 188082-188134, 2020; doi: 10.1109/ACCESS.2020.3029847; URL: http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9218916&isnumber=8948470
Innovative
Sustainable
Need Driven R&D
N Veeranjaneyulu
SOLOMON RAJU KOTA
premamayudu
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Reactions
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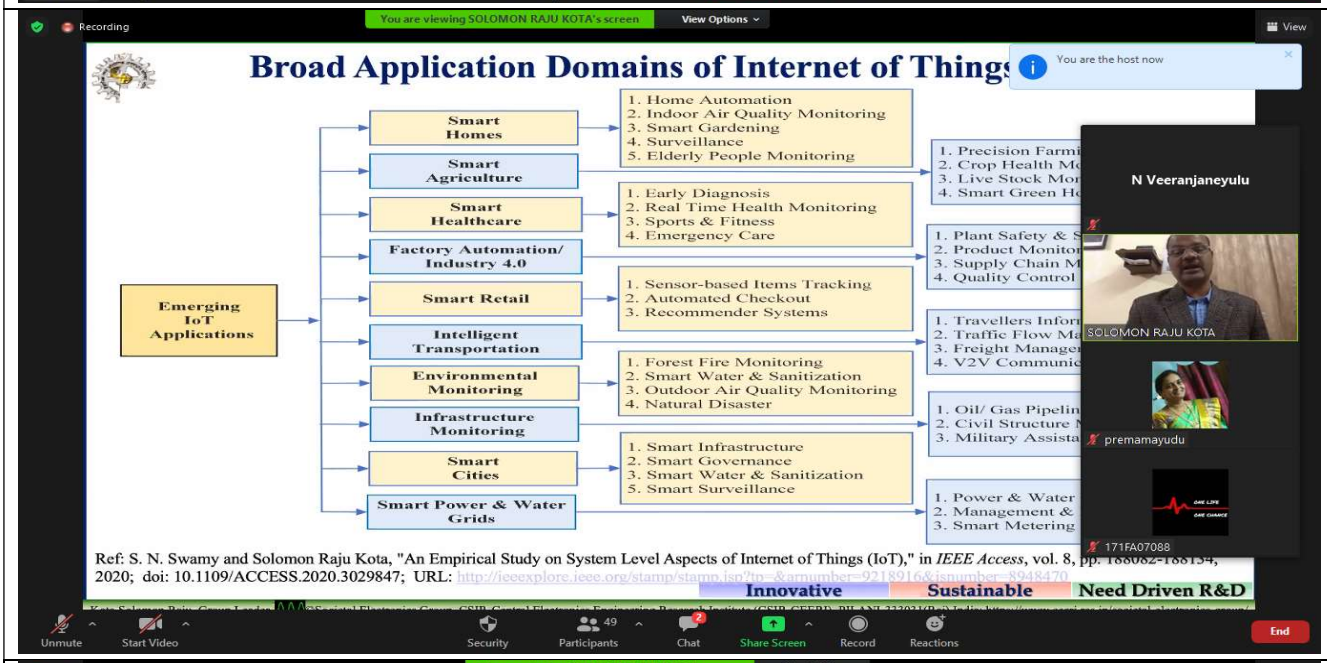
Recording
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Broad Application Domains of Internet of Things
You are the host now
Emerging IoT Applications
Smart Homes
1. Home Automation
2. Indoor Air Quality Monitoring
3. Smart Gardening
4. Surveillance
5. Elderly People Monitoring
Smart Agriculture
1. Precision Farmi
2. Crop Health Mo
3. Live Stock Mon
4. Smart Green He
Smart Healthcare
1. Early Diagnosis
2. Real Time Health Monitoring
3. Sports & Fitness
4. Emergency Care
Factory Automation/ Industry 4.0
1. Plant Safety & S
2. Product Monitor
3. Supply Chain M
4. Quality Control
Smart Retail
1. Sensor-based Items Tracking
2. Automated Checkout
3. Recommender Systems
Intelligent Transportation
1. Travellers Infor
2. Traffic Flow Ma
3. Freight Manage
4. V2V Communic
Environmental Monitoring
1. Forest Fire Monitoring
2. Smart Water & Sanitization
3. Outdoor Air Quality Monitoring
4. Natural Disaster
Infrastructure Monitoring
1. Oil/ Gas Pipelin
2. Civil Structure M
3. Military Assista
Smart Cities
1. Smart Infrastructure
2. Smart Governance
3. Smart Water & Sanitization
5. Smart Surveillance
Smart Power & Water Grids
1. Power & Water
2. Management &
3. Smart Metering
Ref: S. N. Swamy and Solomon Raju Kota, "An Empirical Study on System Level Aspects of Internet of Things (IoT)," in IEEE Access, vol. 8, pp. 188082-188134, 2020; doi: 10.1109/ACCESS.2020.3029847; URL: http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9218916&isnumber=8948470
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Reactions
End


Recording
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Why "Real-Time service delivery"
real-time data analysis and prediction using IoT
Save Resources
Enable New Knowledge
Increase Comfort
Preventing Failure
Improve Food Quality
High-Confidence in Data
Protects from corruption
Innovative
Sustainable
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