



International Conference on Internet of Things (IConIoT-2k17)

28th February & 1st March, 2017

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Organised by : Centenary Celebrated Sharnbasveshwar Vidya Vardhak Sangha's

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In Association With

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IConIoT- 2k17

Theme: IConIoT- 2k17

IOT is for Students, Teachers, Researchers, Doctors, Farmers, Smart Cities, Soldiers/ Security Agencies, Industries, Governance & Communication. IConIoT-2k17 can be a potential platform through which efforts are being put to bring together the developers of IoT and its potential users for direct face to face interactions/ dialogs/ discussions.

The potential users in general are people from all walks of life, especially people from Healthcare, Farming Community, Business Community, Industries & Organizations etc.

The developers of IoT includes IT Professional, Teachers and Students of CSE, ECE, ISE, EEE, CIVIL, MECH etc., branches. Also Researchers & Professionals from both Academia and Industries.



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IConIoT- 2k17

KEYNOTE SPEAKER

1. **Mr. Shivakumar Mathapathi** CEO, Co-founder
DEW Mobility, Fremont, California, USA



EXPERT SPEAKERS FROM Universities / Institutions / Industries

1. **Dr. Martin Serrano** Research Head IOT
National University of Ireland, Galway, Ireland, UK



2. **Dr. Prem Prakash Jayaraman** Research Fellow
Swinburne University of Technology, Melbourne, Australia



3. **Dr. Safia Fatima** CTO
Minds Solvit Pvt. Ltd. Kalaburagi, Karnataka, India



4. **Mr. Siddaram Hebbal** Software Developer
Minds Solvit Pvt. Ltd. Kalaburagi, Karnataka, India



TOPICS TO BE COVERED

1. Introduction to IoT & its Applications
2. Health Care wellbeing IoT Applications/ Projects
3. Agriculture IoT Applications/ Projects
4. IoT in Defence
5. IoT & Cloud Computing
6. IoT enabled Smart City Projects

Shankar Prasad
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Swinburne University of Technology, Melbourne, Australia
Dr. Martin Serrano Research Head IOT
National University of Ireland, Galway, Ireland, UK
Mr. Shivakumar Mathpathi CEO, Co-founder, DEW Mobility, USA

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Mr. Tarun Kumar Engineering Manager, Dew Mobility, India
Mr. Prashant Kumbhar Software Engineer, Dew Mobility, India
Prof. Shivputrappa Patil System Analyst, APPA IET, Kalaburagi
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IConIoT- 2k17

IConIoT-2k17 International Conference on Internet of Things

Agenda Tuesday, February 28, 2017

- 08:00 am - Registration and Tea at Main Auditorium
- 08:30 am - Introduction to the Conference by Host
- 08:45 am - Keynote: Introduction to IoT and its Applications: Speaker, Mr. Shivakumar Mathapathi
- 10:30 am - Tiffin and Networking Break
- 11:00 am - Event Inauguration
- 12:30 pm - Lunch
- 01:30 pm - Healthcare and Wellbeing IoT Applications : Speaker, Dr. Martin Serrano
- 03:30 pm - Coffee/Tea Break
- 04:00 pm - Agriculture IoT Applications: Speaker, Dr. Prem Jayaraman
- 06:00 pm - Adjourn Day 1

Agenda Wednesday, March 1, 2017

- 08:00 am - IoT in Defence : Speaker, Dr. Safia Fatima
IoT in Cloud Computing : Speaker, Mr. Siddaram Hebbal
- 08:45 am - IoT in Agriculture : Speaker, Dr. Prem Prakash Jayaraman
- 10:00 am - Tiffin and Networking Break
- 10:30 am - Healthcare and Wellbeing Projects : Speaker, Dr. Martin Serrano
- 12.30 pm - Lunch
- 01:30 pm - IoT- enabled Smart City Projects - use model : Speaker, Mr. Shivakumar Mathapathi
- 02:30 pm - Poster presentations by Students of Appa Institute of Engineering & Technology
- 04:00 pm - Coffee/Tea Break
- 04:30 pm - Round Table : Moderator, Mr. Shivakumar Mathapathi.
Co-Moderator, Host team.
- 05:30 pm - Concluding remarks by Mr. Shivakumar Mathapathi/Host team.
- 06:00 pm - Adjourn Day 2

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A brief Report

on

International Conference on Internet of Things (IConIoT-2k17)

An International Conference on Internet of Things (IConIoT-2k17) was conducted on 28th feb and 1st march of 2017 at Appa Centenary Hall of our Sangha in association with Sharnbasva University, Kalaburagi.

As we know IOT is an emerging field and a new concept involving larger number of heterogeneous objects of everyday life. They enable large scope of new applications that require all these objects to communicate, interact, to share data and processes. In the fields like hospitals, agriculture, automobile, power engineering, smart grid, transportation, defence, home appliances etc. these fields will have exciting benefits. Resource persons from Australia, USA, UK and India participated in the deliberations. Among them few are:

- Dr. Martin Serrano, Research Head IOT

National University of Ireland, Galway, Ireland ,UK

- Dr.Prem Prakash Jayaraman, Research Fellow, Swinburne University of Technology, Melbourne, Australia.

- Dr.Safia Fatima CTO

Minds Solvit Pvt.Ltd ,Kalaburagi,Karnataka,India

- Mr.Siddaram Hebbal Software Developer

Minds Solvit Pvt.Ltd. Kalaburagi, Karnataka, India.

More than 60 quality papers were presented in this International Conference.

It immensely benefitted teachers and students .


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Proceedings of

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28th February & 1st March, 2017

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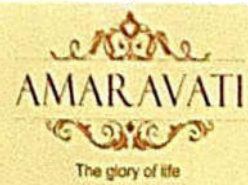
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His Holiness Poojya Dr. Sharanbaswappa Appa
 President, Sharanbasaveshwar Vidya Vardhaka Sangha, kalaburagi



I am extremely happy to host an International Conference on "Internet of things-IConIoT-2k17" organized by all the four Engineering colleges of our organization along with our sister institutions run by Sharanbasaveshwar Vidya Vardaka Sangha,

In the stiff and competitive global markets of 21st century, we must come together to have ideas and resources so that we can plan and create a better future for the next generation of students, faculty and researches. As IoT is an open platform for Students, Teachers, Researches, Doctors, Farmers, smart cities, Soldiers/ Security Agencies, Industries, Governance & Communication. I hope this conference addresses the needs of Participants & General public at large

I welcome you all to undergo a memorable experience "IConIoT-2K17" and convey my best wishes for the grand success of this International conference.

Sharanbaswappa Appa

PRESIDENT

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Chairman, Sharanbasaveshwar Vidya Vardhaka Sangha, kalaburagi



I am delighted to know that Godutai Engineering College for women which is the one Engineering College exclusively for women in entire North-Karnataka region is organizing an International conference on "Internet of things IConIoT-2k17" along with its sister Institutions.

This conference is a step forward to provide a platform for students researches, academicians, from different Institutions and Practicing Engineers from various Industries in India and abroad to discuss & interact with experts on Internet of things.

I welcome all the delegates on the behalf of Sharanbasaveshwar Vidya Vardhaka Sangha Kalburgi, and extend my sincere appreciation for efforts of all the organizers.

I wish the organizers and participants a grand success.

Chairman

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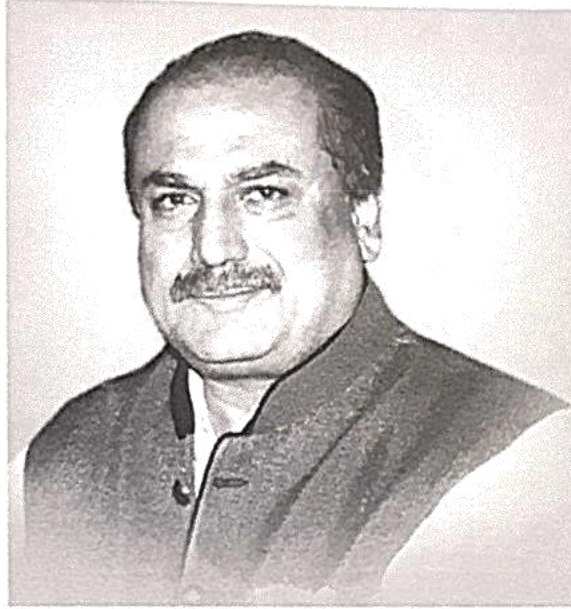
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Sri. Basavaraj Deshmukh

Secretary, Sharanbasaveshwar Vidya Vardhaka Sangha, Kalaburagi



Our revered president, His Holiness Poojya Dr. Sharanbaswappa Appaji has given us a finest opportunity to go ahead to conduct the International Conference on Internet of things (IConIoT-2k17) from 28th February 2017 and 1st March 2017

The program committee, chair & its members of IConIoT-2k17 feel much elated and inspired to organize such an INTERNATIONAL CONFERENCE which rejuvenates them and provides them with an opportunity to express their managerial skills, may it be to Technical or may it may it be organizational one.

I would like to take this opportunity to thank every member of IConIoT-2k17 for the hard work, talents, dedication & enthusiasm in making this conference to take place & make it a grand success.

I hope you will enjoy the excellent, academic & cultural atmosphere of IConIoT-2k17 prevailing in our beautiful sprawling campus Sharn Basveshwar Vidya Vardhaka Sangha.


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Sri. Priyank Kharge
IT, BT & Tourism Minister



I am happy to know that four Engineering Colleges Affiliated to VTU, Belagavi ,of Sharanbasveshwar Vidya Vardhaka Sangha along with its Sister Institutions is organizing an International Conference on “Internet of Things IConIoT-2k17” on 28th Feb 2017 & 1st March 2017. I hope this conference addresses the needs of participants and the general public at large.

I wish the organizers and participants a grand success.



Message from Conference Chair

Dr. V D Mytri

Principal, Appa Institute of Engineering & Technology, Kalaburagi



Our college feels a sense of happiness and great pride in hosting this International conference on "Internet of Things (IConIoT-2k17)"

Internet of things is a multidisciplinary approach covering wide areas of health science, smart cities, Defense, Governance etc, which will help a large public. Papers have been received from various parts of Karnataka through easy chair review process overseen by a five member program committee. These papers cover almost all the areas of internet of things & selected papers will be published in a reputed ISTE journal.

I would like to thank every member of IConIoT-2K17 for their hard work and dedication in making this International Conference a grand success.

I wish the organizer and participants a grand success.

Principal

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Dr. S S Chetty

Director, PG Director, Sharnbasveshwar College of Science, Kalaburagi



Academic excellence has always been the hallmark of our institute and we are committed to provide a comprehensive education which seeks to develop the students into academically proficient, morally upright & socially well integrated students.

This international conference organized by our engineering colleges with its sister institutions well benefit our students, faculties, researchers and general public at large.

I thank all organizers for their hard work & wish all of them for grand success of this conference.

Dr. S.S. Chetty

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Dr. Martin Serrano

Unit Head and Research Scientist
Internet of Things and Stream Processing



Dr. Serrano is the research director and scientific coordinator at the Internet of Things Unit (UIoT) within the Insight Centre for Data Analytics Galway (former DERI) at the National University of Ireland. Dr. Serrano is an ICT expert with more than 15 years experience in industry and applied research within a wide range of successful European (FP5-FP7/H2020) collaborative software projects, Irish National Projects (HEA PRTL, SFI) and also Enterprise Ireland (EI) innovation projects. He also leads Future Internet Research and Experimentation (FIRE) activities Platforms and the FIRE FIESTA-IoT project. Dr. Serrano is a recognized IoT expert on semantic interoperability and Smart City technology architect with a strong background on applied semantic and systems interoperability, services and network management technologies. He has a leading role in the European Research Cluster for the IoT and he is board member at the Connected Smart Cities Network. Dr. Serrano is a continuous contributor to the Scientific, Research and Innovation agenda for Europe. He is also actively investigating, Semantic-based Cloud Infrastructures and Big Data Management. Data Bases Stream processing, Cyber-Physical Systems (CPS) Control, Privacy and Security aspects for IoT, Sensor Networks for the IoT and their deployment in cloud computing environments. Dr. Serrano is an active member of IEEE (Computer and Communication Societies) and ACM and He is the author of the book "Applied Ontology Engineering in Cloud Services, Networks and Management Systems" published by Springer, NY, USA.

The Internet of Things is changing our perspectives and the way we perceive the virtual and physical worlds, from how we perform daily activities (e.g. home cooking, move from work to home, know the conditions of the weather and traffic, make our shopping and payments, etc.) to how we understand the dynamics in a city (e.g. traffic flows with sensors, informative displays in real time, etc.)

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Dr. Prem Prakash Jayaraman
Swinburne University of Technology, Australia

The Internet of Things (IoT) is the latest web evolution that incorporates Billions of devices that are owned by different organizations and people who are deploying and using them for their own purposes. IoT is the next big wave in computing and with applications across virtually every domain ranging from healthcare to manufacturing, it has the potential to influence and change the ways we live and interact with our world.

The Internet of Things Conference (IconIoT 2K17) is timely and I am glad to be part of this conference, presenting and discussing the current advancements in Internet of Things and related areas. I believe the conference is a fantastic platform for students, academics and industry to interact, exchange ideas and explore opportunities in harnessing the full potential of the Internet of Things ecosystem. Looking forward to a successful and fruitful conference.

Bio:



Dr. Prem Prakash Jayaraman is a Research Fellow in the Internet of Things Key lab at Swinburne University of Technology. Previously he was a Research Scientist in the Digital Productivity and Services Flagship of Commonwealth Scientific and Industrial Research Organization (CSIRO – Australian Government’s Premier Research Agency). He is broadly interested in the emerging areas of Internet of Things (IoT), Mobile computing and Cloud Computing. He has more than 50 publications in top-tier Journals and Conferences. He is the author of the

edited book “Handbook on Integration of Cloud Computing, Cyber Physical Systems, and Internet of Things” to appear in Spring in late 2017. You can contact him via email pjayaraman@swin.edu.au



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TRACK 1: INTERNET OF THINGS TECHNOLOGIES

Sl. No.	Paper_ID	Title of The Paper	Authors	Name of the Institution
1.	IConIoT-2K1727	Internet Of Things(IoT):Application and Security Issues Regarding Implementation	Dr.Basavaraj Mathpathi and Mr.Mallanagouda Biradar	Appa Institute of Engineering & Technology, Kalaburagi
2.	IConIoT-2K1711	Literature Survey on Middleware Design in IoT	Madhura Shettar, Dr. S.V.Saboji	Basveshwar Engineering College, Bagalkot
3.	IConIoT-2K1726	Emerging Technologies, Smart Integration, Challenges and Applications of Internet of Things (IoT) in Electrical, Communication and Software Engineering	Gauri Kalnoor, Shama P. S. Suhashini, BVVN Manikanta	Central University of Karnataka.
4.	IConIoT-2K1701	Voice recognition and monitoring over Internet of Things(IoT)	Sagarkumar V Budihal	Maratha Mandal Engineering College, Belagavi, Karnataka, India
5.	IConIoT-2K1718	Study of IoT applications and its advancement using wireless technique for efficient power consumption and management.	Saba Anjum, Zainab Ibtesham Maniyar and Shruti Hanchanal	Godutai Engineering College for women, Kalaburagi, Karnataka
6.	IConIoT-2K1739	Comprehensive Platform Energy Distribution, Monitoring Control Using Internet of Things	Shweta Eranna ,Kumari Vatsala, Supriya,Geeta.K	Godutai Engineering College for women, Kalaburagi, Karnataka

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Sl. No.	Paper_ID	Title of The Paper	Authors	Name of the Institution
7.	IConIoT-2K1744	Underground Cable Fault Distance Locator Using Internet Of Things(IoT)	Anjali Priyadarshini, Swati Kumari, Krishna, Praveen Reddy	Gurunanak Dev engineering College, Bidar
8.	IConIoT-2K1719	A Study on Security, Privacy and Trust for Smart Objects in Internet of Things	Sobiya Nazneen Mujahid and Mohammed Shafeeq Ahmed	Gulbarga University, Kalaburagi
9.	IConIoT-2K1735	Raspberry Pi Based Surveillance Monitoring System	Sweeta Deshmukh, Priyadarshini Sajjan Shetty, Mamta Hokrana, Madhura Deshmukh & Mohammed bakhar	Guru Nanak Dev Engineering College, Bidar, Karnataka, India
10.	IConIoT-2K1745	Research and Innovation Challenges in Internet of Things for Smart Grid, Home Automation and Healthcare system	Syed Gilani Pasha Suhasini, Premkumar	Central University of Karanataka. Kalaburagi
11.	IConIoT-2K1758	Internet Of Things-A-Hands On Approach	Divyashree S Hiremath, Chandrika S Kulkarni and Akshata C Gobburkar	Godutai Engineering College for women, Kalaburagi, Karnataka
12.	IConIoT-2K1757	Data Privacy For IoT Systems Using AES Algorithm	Preeti H, Vaishnavi V and Ashwini J	Godutai Engineering College for women, Kalaburagi, Karnataka



TRACK 2: IoT IN SMART FORMING

Sl. No.	Paper_Id	Title of The Paper	Authors	Name of the Institution
1.	IconIoT-2K1732	Automated Soil Testing System For Agriculture	Biradar Kanachan Harshal Jadhav,,Maheshwari Patil	Guru Nanak Dev Engineering College, Bidar, Karnataka, India
2.	IconIoT-2K1710	IOT based Automated Irrigation with Tank Monitoring	Shobana Khanapur, Summaiyya Fatima, Sneha Vaidya and Sneha N Madki	Godutai Engineering College for women, Kalaburagi, Karnataka
3.	IconIoT-2K1713	The contitution of vegetable traceability system in agricultural IOT.	Divyashree Badal, Basamma Khanapur and Ashwini Koute	Godutai Engineering College for women, Kalaburagi, Karnataka
4.	IconIoT-2K1724	Iot based green house control and monitoring system	Kartik Savanur and Poojya Kulkarni	KLS Gogte Institute of Technology Belagavi
5.	IconIoT-2K1731	Improvisation of Agricultural facilities by Internet of things	Dr Basavraj Mathpathi and Nalini Math	Appa Institute of Engineering & Technology, Kalaburagi


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TRACK 3: IoT IN HEALTH CARE

Sl. No.	Paper_ID	Title of The Paper	Authors	Name of the Institution
1.	IConIoT-2K17020	Smart Health: An Emerging Application of IoT	Hayath Tm, Usman K, Mohammed Shafiulla and Prof Shenaz Begum S	BITM, Ballari , karnataka, India
2.	IConIoT-2K1728	Smart and Secure IoT-Based Health Care Monitoring System using BSN	Sujata Mallapur, Nasreen Banu, Khaleda Begum and Farheena Ayesha	Godutai Engineering College for Women, Kalaburagi
3.	IConIoT-2K1723	Designing an application for chronic disease management	Shivleela Patil, Saba Nausheen	Godutai Engineering College for Women, Kalaburagi
4.	IConIoT-2K1737	Patient Health Monitoring System using Raspberry Pi Over IOT	Ashwini Mankoji, Akshay Ambesange, Annapurna Reddy, Nagesh Mashette and Dr. Ravindra Eklarker	Guru Nanak Dev Engineering College, Bidar, Karnataka, India
5.	IConIoT-2K1730	IOT BASED AIR QUALITY MONITORING SYSTEM	Srinidhi Kulkarni, Vineet Parashar, Afsar Riyan, Abdul Rahman and Rakesh Marturkar	Guru Nanak Dev Engineering College, Bidar, Karnataka, India
6.	IConIoT-2K1722	Everyday Things Get Connected For Smarter Tomorrow	Ashwini Pujari and Nagaveni M K	Godutai Engineering College for Women, Kalaburagi
7.	IConIoT-2K1733	Implementation of Smart Health Care System Using IoT	Dr. Basavaraj Mathpathi and Pallavi Patil	Appa Institute of Engineering & Technology, Kalaburagi
8.	IConIoT-2K1741	SMART HOSPITALS IN INTERNET OF THINGS	Dr. Basavraj Mathpathi and Gouthami Hosamani	Appa Institute of Engineering & Technology, Kalaburagi
9.	IConIoT-2K1774	Real Time ECG Monitoring System Using Smart Phone	Prof. Vandana, Prof. Basanti Ghanti	Shetty Institute of Technology, Kalaburagi



TRACK 4: IoT FOR SMART CITY AND SMART HOME

Sl. No.	Paper_Id	Title of The Paper	Authors	Name of the Institution
1.	IConIoT-2K1714	Smart City Implementation Model Based On Iot Technology	Keerti Biradar, Keerti Galgali, Gouravi Naikodi and Asharani Patil	Godutai Engineering College for Women, Kalaburagi
2.	IConIoT-2K1703	IoT-Based Intelligent For Fire Emergency Response Systems	Basavarajeshwari Pujari and Mallikarjun Kodabagi	Basaveshwar Engineering College Bagalkot, India
3.	IConIoT-2K1712	Waste Collection in Cities with Optimized Resource Consumption	Vani Pattanshetti and Basavaraj Malapur	Basaveshwar Engineering College Bagalkot, India
4.	IConIoT-2K1702	Renewable Energy Based Home Automation Using IoT	Shruti D Surpur, Shruti R Madyalkar, Sneha Madrikar and Savitri Medegar	Godutai Engineering College for Women, Kalaburagi
5.	IConIoT-2K1725	Human Adaptive Air Conditioner In Smart Home	Rashmi Wali	Godutai Engineering College for Women, Kalaburagi
6.	IConIoT-2K1715	Home Automation Using Internet Of Things	Pooja Dastapur, Pooja Pattanshetty, Pallavi Kamshetty, Pallavi Sugandhi and Chandrabhaga Patil	Godutai Engineering College for Women, Kalaburagi
7.	IConIoT-2K1709	Smart Garbage And Waste Collection Bins Using IoT	Anusha Jamadar, Anasuya Sarasambi, Ambika Malashetty and Nagaveni.K	Godutai Engineering College for Women, Kalaburagi



Sl. No.	Paper_Id	Title of The Paper	Authors	Name of the Institution
8.	IConIoT-2K1729	Internet of Things Stipulates Convenient Transportation	Dr Basavraj Mathpathi and Hemarani Hiremani	Appa Institute of Engineering & Technology, Kalaburagi
9.	IConIoT-2K1734	Wireless Home Automation Using Internet of Things	Dr.Basavaraj Mathpathi and Seema S Mathpati	Appa Institute of Engineering & Technology, Kalaburagi
10.	IConIoT-2K1736	Parking Slot Availability Check And Booking System Over IOT	Apoorva Karpoor, Aishwarya Gajal, Ashwini Tadpallikar, Mamita Biradar and Dr. Anuradha Sandi	Guru Nanak Dev Engineering College, Bidar, Karnataka,
11.	IConIoT-2K1740	A Smart Switch to Connect and Disconnect Electrical De-vices at Home using Internet	Prof. Neelambika Humnabade, Madhumita Mohan, Aishwarya K and Bhageerathi B	Godutai Engineering College for Women, Kalaburagi
12.	IConIoT-2K1743	Smart Garbage Collection Bins Overflow Indicator By Using GSM	Dr.Basavaraj M Mathapati and Prof.Jyoti R M Maranur	Appa Institute of Engineering & Technology, Kalaburagi
13.	IConIoT-2K1749	Smart City Implementation Model Based On IoT	Keerti Biradar, Keerti Galgali, Gouravi Naikodi and Asharani Patil	Godutai Engineering College for Women, Kalaburagi
14.	IConIoT-2K1752	Control of Home Electric Appliances using IoT	Shobhna Khanapur, Sunit Poddar, Shivapriya & Suma Patil	Godutai Engineering College for Women, Kalaburagi




Sl. No.	Paper_Id	Title of The Paper	Authors	Name of the Institution
15.	IConIoT-2K1755	SMART GARBAGE SYSTEM AND WASTE COLLECTION BINS USING IoT	Anusha Jamadar, Anasuya Sarasambi, Ambika Malashetty and Nagaveni Manjunath Kembavi	Godutai Engineering College for Women, Kalaburagi
16.	IConIoT-2K1756	An Efficient Control Street Lighting System Based on IoT	Anita Malkud, Sushma Jujare and Sangeeta Malipatil	Godutai Engineering College for Women, Kalaburagi
17.	IConIoT-2K1747	MAKING INDIA SMART USING IOT	Shweta Reddy and Soumya C K	Godutai Engineering College for Women, Kalaburagi
18.	IConIoT-2K1748	Smart Parking System based on Internet of Things with RFID Technology	Shridevi Padashetty and Sharanabasappa Madival	Appa Institute of Engineering & Technology, Kalaburagi
19.	IConIoT-2K1746	IoT Based Prepaid Electricity	Prof. Sharanbasappa Madival and Mr. Mallanagouda Biradar	Appa Institute of Engineering & Technology, Kalaburagi
20.	IConIoT-2K1750	Environmental monitoring using Internet of Things	Shweta Patil, Pradeep Deshpande and Krunal Pawar	BLD Engineering College, Bijapur.
21.	IConIoT-2K1738	IoT Based Temperature Monitoring – A Practical Approach	Rajendra R Patil	Appa Institute of Engineering & Technology, Kalaburagi
22.	IConIoT-2K1759	Traffic Reduction In Smart Cities Using IOT And Android Application	Preeti H, Sitara K and Pavitra J	Godutai Engineering College for Women, Kalaburagi.



Sl. No.	Paper_Id	Title of The Paper	Authors	Name of the Institution
23.	IConIoT-2K1760	Internet Of Things For Warehouse/Godown Management	Sharon Sylvia, Shruti Balakundi and Vidyapoorna Bhavi	Godutai Engineering College for Women, Kalaburagi
24.	IConIoT-2K1761	Automatic Intelligent Cars Using IoT Platform	Shweta Swami, Deepti Patil, Priyanka Golsar, Prateeksha Kottargi and Mrs. Vijayalaxmi Patil	Godutai Engineering College for Women, Kalaburagi
25.	IConIoT-2K1762	Iot Smart Parking System For Smart Cities	Pooja Shetty	Godutai Engineering College for Women, Kalaburagi
26.	IConIoT-2K1767	Home Automation Using Internet Of Things (IoT)	Pooja Dastapur, Pooja Pattanshetty, Pallavi Sugandhi, Pallavi Kamshetty and Chandrabhaga Patil	Godutai Engineering College for Women, Kalaburagi
27.	IConIoT-2K1706	Intuit And Behavior Of Home Appliances To Convert Simple Home To Elegant Home Through Iot	Preeti Patil*, Sameena Sultana	Appa Institute of Engineering & Technology, Kalaburagi


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TRACK 5: IOT APPLICATIONS: TECHNOLOGIES FOR GENERAL APPLICATIONS

Sl. No.	Paper_Id	Title of The Paper	Authors	Name of the Institution
1.	IConIoT-2K1708	An Anamnesis on Internet of Nano Things (IoNT) For Bio-Medical Applications	Amruta Pattar	Appa Institute of Engineering & Technology, Kalaburagi
2.	IConIoT-2K1742	Renewable Energy Resources Using Internet Of Things	Chandrika Gola, Sadhana Desai, Deepti Kote and Geeta Kamalapur	Godutai Engineering College for Women, Kalaburagi
3.	IConIoT-2K1744	Underground Cable Fault Distance Locator Using Internet Of Things	Anjali Priyadarshini, Krishna Biradar, Swati Kumari, Kapil Kumar Verma and Praveen Kumar Reddy	Guru Nanak Dev Engineering College, Bidar, Karnataka, India
4.	IConIoT-2K1754	Internet of Things For Country Savers	Aishwary Telkar, Nagaveni	Godutai Engineering College for Women, Kalaburagi
5.	IConIoT-2K1717	Security concerns in applications on IoT	Gururaj Kulkarni, Rahul Kulkarni and Shrivatsa Perur	Gogte Institute of Technology Belagavi
6.	IConIoT-2K1753	Everyday things get connected for smarter tomorrow	Ashwini Pujari and Nagaveni M K	Godutai Engineering College for Women, Kalaburagi
7.	IConIoT-2K1768	Internet of Things applications	Shrinidhi Pujari and Shrinidhi Pujari	Appa Institute of Engineering & Technology, Kalaburagi

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Sl. No.	Paper_Id	Title of The Paper	Authors	Name of the Institution
8.	IConIoT-2K1775	Major requirements for building Cleanroom in HVAC system based on Internet of Things Technologies	Mr. Sharanabasappa R Patil and Dr. Shivkumar Rachoti	Appa Institute of Engineering & Technology, Kalaburagi


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INTERNET OF THINGS (IOT): APPLICATIONS AND SECURITY ISSUES REGARDING IMPLEMENTATION

Dr. Basavaraj S Mathapathi¹, Mr. Mallanagouda Biradar²

^{1,2}Department of Computer Science & Engineering

^{1,2}APPA Institute of Engineering & Technology, Klb.

Abstract

The Internet of Things (IoT) is a powerful paradigm that has made progress in the almost every field of human life. This paper gives an overview of IoT, its enabling technologies, applications and security issues in the wireless technologies. IoT is enabled by a number of different technologies such as Radio Frequency Identifiers (RFID), and Wireless Sensor Networks (WSN). There are huge number of applications of IoT in almost every aspect of life i.e. healthcare, logistics and supply chain management, smart environment and social application etc. only a few of these applications are discussed in this paper. Security is an important concern of wireless networks and so it is one of the main issues in IoT. This paper gives an overview of the few of many security concerns in an IoT system and methods to prevent those issues.

LITERATURE SURVEY ON MIDDLEWARE DESIGN IN IoT

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Basaveshwar Engineering College, Bagalkot, India

Abstract

The Internet of Things (IoT) has been introduced to combine the effective world of information and the real world of devices. The infrastructure, which can be software, hardware and services are covered by internet of things to support the networking of physical objects. In IoT, there are various devices and networks. Their diversity can be potentially enhanced with advanced technologies. To facilitate the utilization of the devices by IoT applications, we should protect their heterogeneity. Therefore, we need to develop an assured, scalable and semantically augmented service-oriented middleware to manage the heterogeneity of devices. This paper surveys the middleware designed for IOT, focuses on the technical challenges of designing middleware systems for the IoT [5] and modules address these challenges of internet of things those are event-Based Middlewares, Service-Oriented Middlewares, Tuple-Based Middlewares.



EMERGING TECHNOLOGIES, SMART INTEGRATION, CHALLENGES AND APPLICATIONS OF INTERNET OF THINGS (IoT) IN ELECTRICAL, COMMUNICATION AND SOFTWARE ENGINEERING

Gauri Kalnoor¹, Shama P.S², Suhashini³, BVVN Manikanta⁴, Bala Murali Krishna. V⁵ ^{1,2,3,5}
Assistant Professor, School of Engineering, C.U.K -585367,
⁴M.Tech (Power Systems), K.L University - 520 002

Abstract

This paper presents the basic principles and technologies of Internet of Things (IoT) in the broad areas of Electrical, Communication and Software Engineering application. The IoT shows the a very broad impact on organizations to switch into new product business , affecting the existing business strategies , risk management, smart integration and a wide range of technical areas such as architecture , telecommunication , energy and network design. The current status of IoT technologies and policies in India is briefly discussed this paper.

VOICE RECOGNITION AND MONITORING OVER INTERNET OF THINGS (IoT)

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Maratha Mandal Engineering College, Belagavi, karnataka, India
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Abstract.

The Internet of Things (IoT) is aimed at enabling the interconnection and integration of the physical world and the cyber space. It represents the trend of future networking, and leads the third wave of the IT industry revolution. First I introduce some background and related technologies of IoT and discuss the concepts, objectives of IoT and challenges and key scientific problems involved in IoT development. Finally, we outline future research directions.


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STUDY OF IoT APPLICATIONS AND ITS ADVANCEMENT USING WIRELESS TECHNIQUE FOR EFFICIENT POWER CONSUMPTION AND MANAGEMENT

Saba Anjum¹, Zainab Ibtesham M², Shruti Hanchanal³

Electronics and communication department, Godutai Engineering College for women, Kalaburagi, Karnataka(India)

Abstract

Internet of things is a concept of technology and an architecture which is an aggregation of already available technologies. With the acceleration of IOT, wireless sensor networks (WSNs) are gaining importance in continued advancement of information and communication technologies and it have been connected and integrated with the internet in vast industrial applications. However given the fact that most WSNs are resource constrained and operate on batteries, the communication overhead and power consumption are important issues for WSNs design. The different low power wireless communication techniques such as ZigBee, low power wi-fi, lowPAN, LPWA are used to conserve power and longing the life for IOT network sensors. In order to efficiently manage these wireless sensor devices in unified manner, the industrial authorities should be able to provide a network infrastructure supporting various WSN application and services that facilitates the management of sensor-equipped real-world entities. This paper presents the basic introduction and a brief growth of IOT in section1. Structure of IOT in section2, then it describes the wireless connectivity technology and sensor networks in section3. A research activity in developing a WSN management system is discussed in section4. The key approach to enable efficient and reliable management of WSN within an infrastructure is a cloud based RESTful Web Service. The last section5 will give the conclusion about the study.

COMPREHENSIVE PLATFORM FOR ENERGY DISTRIBUTION, MONITORING CONTROL USING INTERNET OF THINGS

Shweta Eranna*, Kumari Vatsala, Supriya**, Geeta.K.

Abstract

The plug load devices in building sectors are consuming close for example water heater. By measuring current and voltages we can analyze energy consumption make the world smarter place make better discussion using IOT. Resources lagging behind, so in present day's energy efficient technologies are introduced. Power is one of the resources which need to be monitored and controlled as per the needs. So electricity consumption is increased day by day. Power play important role in human life. So lack of power is been wasted. We cannot ensure how much power consumes until we get tariff to overcome this by using wireless sensor network. By using this sensor we can monitor and control the power usage. to 40% of total electric city consumption. Through the share of plug load in building energy is increasing very few studies exist on the plug level energy usage and consumption.



UNDERGROUND CABLE FAULT DISTANCE LOCATOR USING INTERNET OF THINGS (IoT)

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Abstract

The objective of this project is to determine the distance of underground cable fault from base station in kilometers. The underground cable system is a common practice followed in many urban areas. While a fault occurs for some reason, at that time the repairing process related to that particular cable is difficult due to not knowing the exact location of the cable fault. The proposed system is to find the exact location of the fault. The project uses the standard concept of Ohms law i.e., when a low DC voltage is applied at the feeder end through a series resistor (Cable lines), then current would vary depending upon the location of fault in the cable. In case there is a short circuit (Line to Ground), the voltage across series resistors changes accordingly, which is then fed to an ADC to develop precise digital data which the programmed microcontroller of 8051 family would display in kilometers. The project is assembled with a set of resistors representing cable length in KM's and fault creation is made by a set of switches at every known KM to cross check the accuracy of the same. The fault occurring at a particular distance and the respective phase is displayed on a LCD interfaced to the microcontroller. Further this project can be enhanced by using capacitor in an ac circuit to measure the impedance which can even locate the open circuited cable, unlike the short circuited fault only using resistors in DC circuit as followed in the above proposed project.

A STUDY ON SECURITY, PRIVACY AND TRUST FOR SMART OBJECTS IN INTERNET OF THINGS

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Abstract

Earlier Internet connects places, then people and now in this era it connects things and arises a new concept Internet of Things (IoT). IoT penetrates all aspects of human life and handles the huge volume of data (big data), so security and privacy concepts including access control, authentication and confidentiality play a major role in IoT to enforce trust in a dynamic environment. The user acceptance of IoT is enormously high and is always collecting sensitive information so privacy preservation and security in Trust Management in IoT is a big challenge in its research area. Since the current researchers lack a comprehensive study on the enhancement of security in IoT, in this paper we investigate the main research challenges in this field and identify the unsolved problems. It also proposes a unique trust management framework for mobile devices by considering security related issues.



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