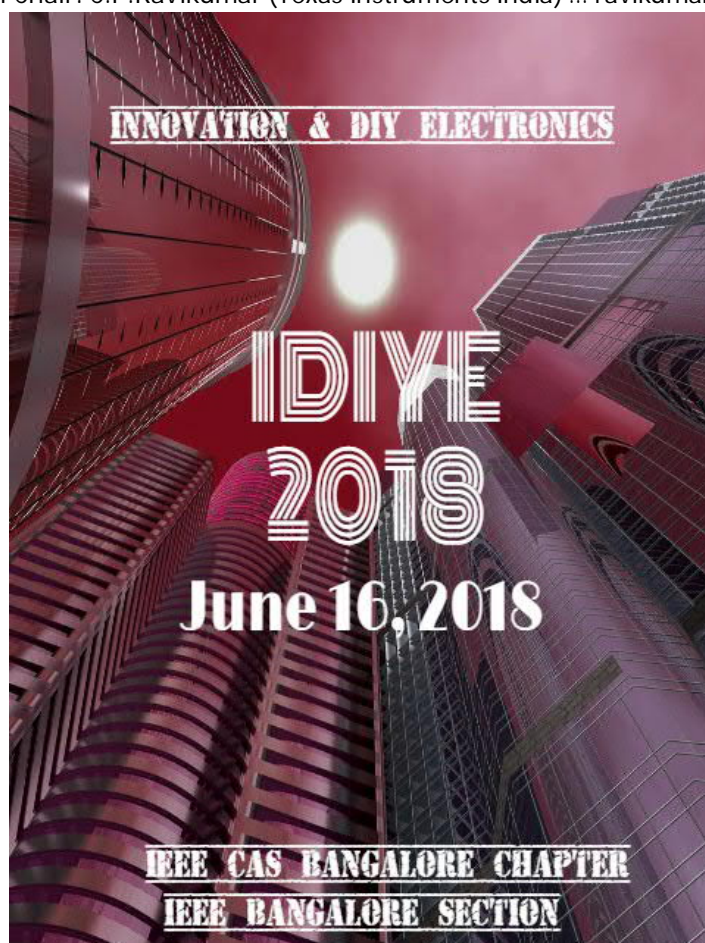


## IDIYE 2018

One-day Conference on INNOVATION & DO-IT-YOURSELF ELECTRONICS  
16 June 2018 ... Texas Instruments India, Bagmane Tech Park, CV Raman Nagar, Bangalore 560093

<http://ieee-cas-bangalore.org/activities/events/idiye2018.html>

General Chair: C.P.Ravikumar (Texas Instruments India) ... ravikumar@ti.com



IEEE CIRCUITS AND  
SYSTEMS SOCIETY  
BANGALORE CHAPTER

IEEE  
Bangalore Section



TEXAS  
INSTRUMENTS

### Advance Program – Updated 16 June 2018

8.00 to 9.00am	Registration [Prior registration is mandatory – all confirmed participants will receive e-mail]
9.00 to 9.30am	Venue - Auditorium Keynote Talk: <b>Innovation or Illusion</b> N.Kavitha (STEPS Knowledge Services Pvt Ltd, Coimbatore)
9.30 to 10.30am	Venue - Auditorium Panel discussion: DIY Electronics – What will take us to the next level? Moderator: C.P. Ravikumar <b>How can DIY projects from India be more innovative and relevant to India?</b> N.Kavitha (STEPS Knowledge Services Pvt Ltd, Coimbatore) <b>Is the curriculum driving students towards or away from Electronics DIY?</b> Prof.Dhananjay V. Gadre (CEDT, NSIT Delhi) <b>Are Governmental initiatives helping in expanding DIY?</b> Navratan Katariya (Director-Startups with the Govt. funded NASSCOM)

10.30 to 11.00am	Coffee Break		
Paper presentations			
11.00am to 11.45 am (each presentation is allotted 15 min)			
<b>Venue – LC1</b> <b>Session 1A – Fun Ideas</b> Session chair: Abhishek Appaji (BMS College of Engg)	<b>Venue – LC2</b> <b>Session 1B - Automotive Electronics</b> Session chair: Navratan Katariya (Director-Startups, NASSCOM)	<b>Venue – Auditorium</b> <b>Session 1C - Instrumentation</b> Session chair: C.P.Ravikumar (Texas Instruments India)	
Talkative Tom Srijan Pabbi, Anmol Kathuria and Prof Dhananjay V. Gadre (NSIT Delhi)	Vehicle Accident Control System Medam Sandhyareddy and Munagala Tejaswini (R.M.K Engineering College)	LiTRx : Visible Light based Data Transmitter and Receiver Savinaya M V (Texas Instruments India) and Joseph Brian D'souza (Tessolve Semiconductor Pvt Ltd)	
Intelligent Traffic Management System for Ambulances & VIP Vehicles using Embedded & RFID Technologies Prashanth Kumar A P (Aryabharathi Polytechnic)	Design of a Low - Cost Driver Alertness System using a Microcontroller Ashis Kumar Mal, Debabrata Bej and Raj Arya (NIT Durgapur)	Mini LED Board Sourav Bhattacharjee and Rishabh Srivastava (CEDT, NSIT Delhi)	
	Smart Water Monitoring System for Real-time Water quality and Usage monitoring Rajni Kumari Sah, Manish Kumar Jha, Rashmitha M S and Rupam Sinha (Ramaiah Institute of Technology)	Kaleidoscope Anmol Kathuria and Riddhi Luthra (CEDT, NSIT Delhi)	
12.00pm – 12.45pm (each presentation is allotted 15 min)			
<b>Venue – LC1</b> <b>Session 2A – Assistive Technologies</b> Session chair: Prof.Dhananjay V. Gadre (CEDT, NSIT New Delhi)	<b>Venue – LC2</b> <b>Session 2B – Monitoring</b> Session chair: C.P.Ravikumar (Texas Instruments India)	<b>Venue – Auditorium</b> <b>Session 2C –Safety and Security</b> Session chair: N.Kavitha (STEPS Knowledge Services Pvt Ltd, Coimbatore)	
Smart reader for visually impaired Varsha U, Neha Misba A K, Rameshwari N G and Sumedha S (SJCE, Mysuru)	Innovation in the field of Home Automation Arun Kumar (SINCGRID LLP)	Inspection of Railway tracks using Robot Anand Balaji and Akash SV (R.M.K. Engineering College)	
ADHD Child Monitoring System for Behavioural Change Using IoT Vadiraja Acharya, Bhuvan Surya Purushothama, Varnashree S Sharma and Vadiraja Acharya (JIT)	Instrumentation Framework Arun Kumar (SINCGRID LLP)	An IoT enabled Safety Door lock System Diwakar.V, Hem Kumar Rao.R and Shabare Narayen.S (R.M.K. Engineering College)	
Navigation Assistance for Visually Challenged Sriraj Chellappan, Kavithaa Rajagopalan, Ben Thomas and Nikita Naresh (Texas Instruments India)	Sound Level Meter Palak Arora, Mayank Yadav and Prof.Dhananjay V. Gadre (CEDT, NSIT Delhi)	Twilight Switch Sourav Bhattacharjee, Devendra Pandey, Ayush Bisht, Mentor: Karyikay Golcha and Prof. Dhananjay V Gadre (CEDT, NIST Delhi)	
12.45 to 1.45 pm	Lunch		
01.45 to 03.45pm	Project demo and Poster Presentation by authors		

03.45 to 04.00pm	Coffee Break
04.00 to 05.00pm	Valedictory Session (Certificate and Prize distribution)

Keynote talk: [Innovation or Illusion](#)

Speaker: N.Kavitha (STEPS Knowledge Services Pvt Ltd, Coimbatore)



N.Kavitha is an Electronics & Communication Engineer with 32 years of experience serving as the Director of STEPS Knowledge Services Pvt Ltd with focused industrial experience in Design, Development and Applied Research. She has headed and steered firmware development teams for global competitiveness and still a passionate developer. She has worked with various Consultants, Design Houses, System Integrators and OEMs in USA, Europe and South East Asia. Ms.Kavitha holds a MS (Software Systems) from BITS, Pilani, She is an MBA with specialization in Finance and a PG Diploma in Intellectual Property Rights from NLSIU, Bangalore, and a Diploma in Operations Management.

She has been an eloquent speaker at Embedded Systems Conferences and Developers Conference world-wide. She is also a co-inventor for various domain-related engineering patent

applications.

Panel discussion: Topic: [DIY Electronics – What will take us to the next level?](#)

Moderator: C.P. Ravikumar

Panelists: N.Kavitha (STEPS, Coimbatore), Prof.Dhananjay V. Gadre (CEDT, NSIT New Delhi) and Navratan Katariya (Director-Startups with the Govt. funded NASSCOM)

DIY Electronics has existed in India for several decades now, starting with projects that could be done using the 555 timer. Many things have changed in the past four decades – easier availability of literature, easier availability of hardware parts, open-source software, social media platforms for collaboration, government initiatives to encourage “Make In India.”

Yet, it is doubtful if the DIY community has grown significantly in India. The question is, why? Each of the speakers will explore one aspect of this question and provide a suggestion on what can be done to improve the situation, followed by an open discussion

Registration:

- Full details of the event with registration tariffs for IEEE/IEEE-CAS Members / Non-members: Before/After May 15 are available from our website: <http://ieee-cas-bangalore.org/activities/events/idiye2018.html>
- All participants are to register online with their payment details at <https://goo.gl/forms/0tWCA1InSZ4ykiws1>
- Prepare a DD (Demand Draft) or Chq for the amount applicable to "IEEE CAS Bangalore Chapter" payable at Bangalore.
- The DD is to be sent to: “C.P. Ravikumar, Secretary, IEEE CAS Bangalore Chapter, Texas Instruments, Bagmane Tech Park, CV Raman Nagar, Bangalore 560093” to reach us by 5 June 2018.
- Please write your Name, Phone number and IDIYE2018 on the reverse side of DD/chq for our reference.
- Send the scanned copy of the DD through mail to [accounts@ieee-cas-bangalore.org](mailto:accounts@ieee-cas-bangalore.org) with a copy to [registration@ieee-cas-bangalore.org](mailto:registration@ieee-cas-bangalore.org) as a safeguard, considering postal delay or any loss during transit
- Alternatively you can also transfer the registration fee online through NEFT:  
Name of the account – IEEE CAS Bangalore Chapter  
Central Bank of India, A/C number – 1057 2947 24, Miller Road Extension Branch (Code 02314)  
IFSC Code – CBIN0282314  
In such cases, please send a screenshot/PDF print of the transaction to [accounts@ieee-cas-bangalore.org](mailto:accounts@ieee-cas-bangalore.org) with a copy to [registration@ieee-cas-bangalore.org](mailto:registration@ieee-cas-bangalore.org)