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EASWARI ENGINEERING COLLEGE



SRI VENKATESWARA COLLEGE OF ENGINEERING



JIT INSTITUTE OF TECHNOLOGY



VEL TECH MULTITECH DR. RANGARAJAN, DR. SUGUNTHALA ENGINEERING COLLEGE

WEBINAR 08

IETE CHENNAI CENTRE
IETE STUDENT FORUM



EXPLORING IETE WEBINAR SERIES

MARINE ROBOTICS , DESIGN AND APPLICATIONS



Shri . MADHAN R
CSIR - Central Scientific Instruments Organisation
Senior Principal Scientist
National Institute of Oceanography (NIO), Goa

13/06/2020

4:00 PM TO 5:00 PM

SATURDAY

IST

E - CERTIFICATES WILL BE GIVEN

WEBINAR LINK

DOWNLOAD ZOOM APP

REGISTRATION LINK

<https://gpeducation.zoom.us/j/94223125772>

<https://tinyurl.com/ietewebinar08>

MEETING ID : 94223125772

PASSWORD : 709514



JEYA PRABHA T J ECE <jprabha@svce.ac.in>

IETE Webinar - Marine Robotics: Design and Applications

INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS ----

Mon, Jun 8, 2020 at 3:35 PM

<ietechennai@gmail.com>

To: "S. Sumathi" <sumathi.ece@sairam.edu.in>, kavya vimalkumar <kavyavimal@gmail.com>, Ramesh Sundar <rameshbe04@gmail.com>, duraivel@kingsedu.ac.in, DURAI VEL <duraivel.n@gmail.com>, ECE KEC <ece_kec@yahoo.com>, ecehod@kingsedu.ac.in, "raammesh1976@yahoo.co.in jawahar@bsarniv.ac.in malligaprincess@gmail.com velladuraiskreere@gmail.com priyasakthikumar@gmail.com kavyavimal@gmail.com dvijendrababu@gmail.com srisavi2010@gmail.com senthilkumar817@gmail.com dslenin@gmail.com dsahayal@hindustanuniv.ac.in samalex.me@gmail.com hodece@skr.edu.in rddylth@gmail.com srb@svceac.in" <dslenin@gmail.com>, "raammesh1976@yahoo.co.in jawahar@bsarniv.ac.in malligaprincess@gmail.com velladuraiskreere@gmail.com priyasakthikumar@gmail.com kavyavimal@gmail.com dvijendrababu@gmail.com srisavi2010@gmail.com senthilkumar817@gmail.com dslenin@gmail.com dsahayal@hindustanuniv.ac.in samalex.me@gmail.com hodece@skr.edu.in rddylth@gmail.com srb@svceac.in" <dsahayal@hindustanuniv.ac.in>, radhakrishnan palamalai <krish75radha@gmail.com>, Prabakaran kathirvel <prabakaran36@gmail.com>, Hema Vathy <nchema@gmail.com>, "V.Nithya" <nithya.v@ktr.srmuniv.ac.in>, komala james <komalajames@rediffmail.com>, komalaj.ece@valliammai.co.in, ecehod@act.edu.in, Suresh Babu <rsbabu.suresh@gmail.com>, jose anand <joseanandme@yahoo.co.in>, Kavitha kannan <ranjanakannan@yahoo.co.in>, Linga Raja <lingalingamraja@gmail.com>, Krishna Prasad <prasad42tech@gmail.com>, hodece@tjsengg.com, Vibish P V <vibishpv@gmail.com>, thiruvankatesanc@ssn.edu.in, Anna Malai <annamalai567@gmail.com>, Raja Ranjith <meetmeraja@gmail.com>, sselvam_mtech@yahoo.com, saravanan k <saravanan.k2006@gmail.com>, saravananrose_11@yahoo.co.in, Jessintha Jebakumari <jessintha.kumar@gmail.com>, Gophika <gophi487@gmail.com>, sunistella@yahoo.co.in, vim74@yahoo.com, Rajasekar B <rajarrec@gmail.com>, BALASUBRAMANIAN S R Ece <srb@svce.ac.in>, Devagar Sukumaran <devagar19@gmail.com>, vijendra babu <dvijendrababu@gmail.com>, Mani Kannan <kannan.gr18@gmail.com>, shakthi murugan <shakthimuruganece@gmail.com>, THARCIS <ptharcis@gmail.com>, MANOJ KUMAR <manojku307@gmail.com>, hodece2018@gkmcet.net.in, viceprincipal@gkmcet.net.in, ecehod@gkmcet.net.in, Dr Saraswathi S <hodece@licet.ac.in>, Ganesh Subramanian <ganesh8461@gmail.com>, saravanan_pad@yahoo.co.in, jothi.se@velsuniv.ac.in, egfin_nirmala@licet.ac.in, "valarmathy.k CPATTVS" <valarmathy.k@cpat.co.in>, "Kalidoss.k (Mechatronics/CPATTVS)" <kalidoss.k@cpat.co.in>, "Ravindrakumar.b (Electrical /CPATTVS)" <ravindrakumar.b@cpat.co.in>, Ramkumar Prabhu M <ramkumarprabhu.m@gmail.com>, "Mr.J.Raja Asst.Prof - ECE" <ece.raja@msajce-edu.in>, raja j <jjvraja@gmail.com>, Deepak Franklin <frankece@gmail.com>, hodecedce@gmail.com, Ponraj Rangasamy <ponrajr@gmail.com>, jaisankar N <dr.jai235@gmail.com>, sivathellore@yahoo.com, Divya Prabhakaran <divya19792@gmail.com>, Vijay Keerthi <vijaykeerthi.p@gmail.com>, eeedeptlit@gmail.com, Vydeki D <vydeki.d@vit.ac.in>, vydekidy@gmail.com, Ramesh Babu <rameshbabu15@gmail.com>, ecedept.10@gmail.com, Anusooya ECE <anusooya@bsauniv.ac.in>, sathyaraj.d@peri.ac.in, elango.p@peri.ac.in, krp@velammalitech.edu.in, Vijayaraghavan Jayakumar <vijayaraghavan1878@gmail.com>, hod.ece@vdp.srmuniv.ac.in, Vaishali B <vaishali.b@vdp.srmuniv.ac.in>, "Siji S, HOD - Electronics & Communication Engineering - Meenakshi Sundararajan Engineering College" <hod.ece@msec.edu.in>, shruti.esk@gmail.com, drprithivirajan@velhightech.com, Sharanya Vels University <sharanya0608.se@velsuniv.ac.in>, subbulakshmi.ece@bharathuniv.ac.in, anitha.s@rajalakshmi.edu.in, Subramaniam R <rsm11357@gmail.com>, satheeshkumars@skcet.ac.in, Magdalene Milan <magdalenemilan@gmail.com>, arun m <arunecepit@gmail.com>, jeya ramya Varatharaj <jeyaramyav@gmail.com>, dmice ece <dmice.ece.1@gmail.com>, Preethi Vinnarasi <preethi86ece@gmail.com>, VALARMATHI T S Teaching <valarmathi@saec.ac.in>, anusha@saec.ac.in, drkssece@gmail.com, k Gunalan <gunalanmdu@gmail.com>, vrpece@gmail.com, Nancy W <nancyw@jepppiaarinstitute.org>, "Dr. G vallathan" <gvallathan@gmail.com>, hod.ece@rmkec.ac.in, "Dr.Suresh T Professor" <tsh.ece@rmkec.ac.in>, ECE-HOD <ecehod@adhi.edu.in>, ecedsec@gmail.com, JEYA PRABHA T J ECE <jprabha@svce.ac.in>, tamil.hi@gmail.com, Dhanasekar R <dhanasekar.eee@sairamit.edu.in>, tanayakanungo@gmail.com, tanaya kanungo <tanaya_tani@yahoo.co.in>, guthayakumar@gmail.com, "Dr.E.Dhiravidachelvi HOD - ECE" <ecehod@msajce-edu.in>

Cc: Tata Sudhakar <tatasudhakar@gmail.com>, "M. Selvi" <selvim@saveetha.ac.in>

Dear Faculty / ISF Coordinators

IETE Chennai is conducting a webinar series in collaboration with IETE Student Forums of various engineering colleges in Chennai region. The 8th webinar in this series is scheduled on 13th June 2020. The details are given below.

Topic: Marine Robotics: Design and Applications.

Date: **13th June 2020 (Saturday)**

Timings: **04.00 p.m. to 05.00 p.m.**

Register@: <https://tinyurl.com/ietewebinar08>

Speaker: Shri.Madhan R.,
CSIR - Central Scientific Instruments Organization
Senior Principal Scientist, National Institute of Oceanography
(NIO) Goa

Join Zoom Meeting

<https://gpeducation.zoom.us/j/94223125772>

Meeting ID: 942 2312 5772

Password: 709514

With regards,

Dr Tata Sudhakar
Chairman
IETE Chennai Centre

 **IETE-Webinar-2020-8.pdf**
1601K



REPORT ON IETE WEBINAR SERIES #8

ON

“MARINE ROBOTICS: DESIGN AND APPLICATIONS”

The Webinar#8 was coordinated by the IETE Student Forums of six colleges namely, Sri Venkateswara College of Engineering, SRM Institute of Science & Technology-Vadapalani, Panimalar Institute of Technology, Easwari Engineering College, Jeppiaar Institute of Technology & Veltech Multitech Engineering College.

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY VADAPALANI

PANIMALAR INSTITUTE OF TECHNOLOGY

EASWARI ENGINEERING COLLEGE RAMAPURAM CHENNAI

SRI VENKATESWARA COLLEGE OF ENGINEERING

JEPPIAAR INSTITUTE OF TECHNOLOGY

VEL TECH MULTI TECH Dr. RANGARAJAN, Dr. SAKUNTHALA ENGINEERING COLLEGE

IETE CHENNAI CENTRE
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WEBINAR 08

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FLYER ON THE WEBINAR SERIES #8 BY SVCE-ECE-ISF

The Webinar was delivered by Shri Madhan R on 13/06/2020 from 4:00 PM to 5:00 PM. 175 participants actively participated in the Webinar.

Mr. Madhan R is currently working as a Senior Principal Scientist, CSIR-National Institute Of Oceanography, Goa. He earned his Master's degree in Power And Energy Systems from REC Suratkal.

He was a Science Counselor at the Embassy of India, Berlin. He was a part of the team to Design and Develop India's first AUV and Autonomous Underwater Profiler. He received **Meritorious Invention Award** from the National Research Development Corporation (NRDC), New Delhi (2010).

Some of the key points discussed in the Webinar are:

- Autonomous Underwater Vehicles, Autonomous Vertical Profilers.
- Seabed Resident Profiler.
- Hull, Core pressure unit, Shaft Seal.
- Navigation Guidance and Control.
- Depth control MAYA.
- Autonomous Vertical Profiler of NIO.
- Material Selection, Energy.



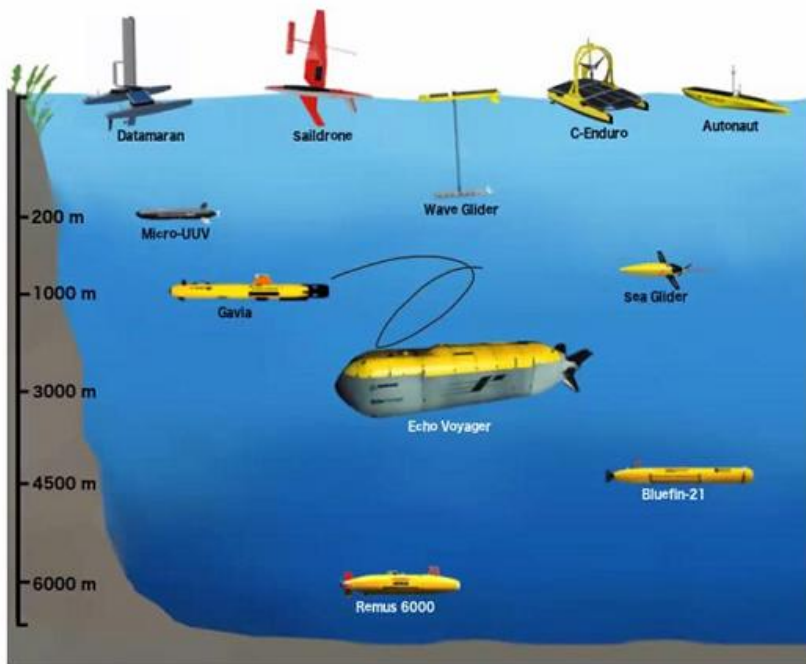
Marine Robotics & Instrumentation

Marine Instrumentation Division
CSIR- National Institute of Oceanography , Goa

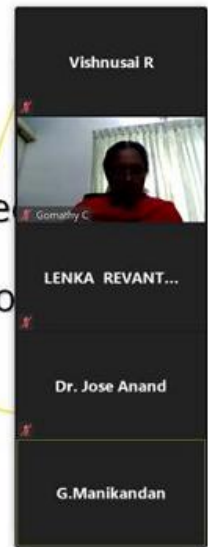
- Autonomous Underwater Vehicles (AUV)
- Autonomous Vertical Profilers (AVP)
- Seabed resident profiler



SESSION BY Shri MADHAN R (SPEAKER)



Untethered
Autonomous



AUTONOMOUS VERTICAL PROFILER

Recording You are viewing Madhan's screen View Options Gallery View Exit Full Screen

Typical mission plan

1. AUV launched
2. Weight shifting starts
3. Weight shifting complete: AUV vertical
4. AUV made negatively buoyant
5. Weight shifting to make AUV horizontal
6. AUV made positively buoyant
7. AUV performs mission

5000m 6000m Target Location Sea Bed

Unpin Video Madhan

Unmute Start Video Participants 179 Chat Share Screen Record Reactions Leave

The session was very informative and enlightening. All the participants were captured by the knowledge portrayed by the chief guest speaker. The chief guest speaker was also keen on the

“Q&A” session and answered the active queries put forth by the participants as the session was very interactive.

The session concluded with the Vote of Thanks.

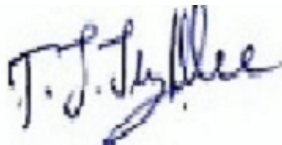
The organizing team was also praised by the Chief Guest speaker for planning and executing the webinar.

Participant Details:

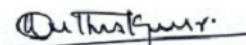
Total Number of Participants: 179

The participants were from different colleges throughout India.

SVCE ISF team comprising of Ms.T.J.Jeyaprabha and Ms.D.Menaka, SVCE-ISF coordinators, Honorary Secretary of SVCE-ECE-ISF - Mr.Thejeshrao (III Year ECE) and SVCE-ECE-ISF Executive Members Mr.Vishnusai (II Year ECE), Mr.Niranjan (II Year ECE), Mr.Harshavardhan (II Year ECE) and Ms.Reshmi (II Year ECE) and Mr. Piyush (III Year ECE), RAIC President, synchronized well in communicating the significance of the webinar to the SVCE student fraternity and coordinated for the successful execution of the event.



Co-ordinator



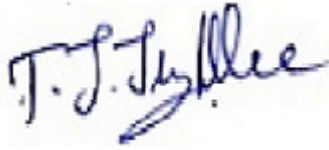
**Head of the Department
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(2017-2021 batch)

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3	170701007	Afridha M	ECE
4	170701008	Agela M	ECE
5	170701010	Ajgith Krishnan	ECE
6	170701012	AKSHAYA C. R	ECE
7	170701016	Anirudh Balaji	ECE
8	170701017	Anusmrthi J	ECE
9	170701018	Anvita Ashokkumar	ECE
10	170701023	Balaji M	ECE
11	170701024	Baskar Ganesarajaram	ECE
12	170701026	Bhuvanewari Chandrasekaran	ECE
13	170701028	DEEPAN R	ECE
14	170701029	Dhanush kumar D	ECE
15	170701030	Dharmasurya A	ECE
16	170701031	Dhinesh Thyagarajan	ECE
17	170701032	DHYANESHWARAN N V	ECE
18	170701036	Gokulakrishnan K	ECE
19	170701038	S Gopalakrishnan Sundaramurthy	ECE
20	170701040	GUNDU PRAKASHAM Haranraj	ECE
21	170701042	Harini Sivakumar	ECE
22	170701043	Harish Damodharan	ECE
23	170701045	Hema Priya M	ECE
24	170701047	JAGADEESHWARI S	ECE
25	170701048	Jailesh Perumal S	ECE
26	170701049	Jayanth Subramanian Saravanan	ECE
27	170701050	Jayashree J N	ECE
28	170701055	KAMALI N	ECE
29	170701056	Kamesh V	ECE
30	170701058	Kavwin Kailash N	ECE
31	170701059	Kavya E	ECE
32	170701060	KEERTHANA LAKSHMI KESAVAN	ECE
33	170701061	Keerthana Ramesh sankar	ECE
34	170701062	Keerthi Raj Dillibabu	ECE
35	170701063	Keshav E	ECE
36	170701064	Keslin M	ECE
37	170701068	Kiruthiga B	ECE
38	170701069	Kishore Kumar	ECE
39	170701070	Krishkumar S	ECE
40	170701072	Lakshmi Narayanan.R	ECE
41	170701073	LOGESHWARAN M	ECE
42	170701074	Lokesh S	ECE
43	170701075	Madhumitha S	ECE
44	170701078	MARY SHARON	ECE

45	170701084	Narendiran Arumugam	ECE
46	170701086	NELAKANTI SAI MOUNIKA	ECE
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48	170701091	Nisha Sunny	ECE
49	170701093	Nitish K	ECE
50	170701096	Prakash Chellapandian	ECE
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52	170701101	Prem Raj S	ECE
53	170701102	Pritam A	ECE
54	170701103	Ragavi Annamalai	ECE
55	170701104	Rahil H Sakariya	ECE
56	170701105	Rahil Jain	ECE
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62	170701118	Sairam K	ECE
63	170701122	Santhosh S	ECE
64	170701125	Saranya Krishnamurthy	ECE
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67	170701131	Shruti Sharada S	ECE
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85	170701156	Vinothini S	ECE
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88	170701305	Bharath Kumar Venkatesan	ECE
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90	170701310	Sharath N	ECE
91	170701158	Vivek	ECE
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95	170701120	S.R Sakthi Saileshram	ECE
96	170701144	Tejwin Gehlot	ECE
97	170701121	Sandeep Pai	ECE
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