



Department of Computer Science and Engineering

VISION

To achieve academic excellence in creating globally competent professionals and ethically strong global workforce in the field of Computer Science & Engineering, facilitating research activities, catering to the ever changing industrial demands and societal needs.

MISSION

MI: Creating excellence in Computer Science & Engineering through academic professionalism for the changing needs of the society.

M2: Establishing centre of excellence for research and for technical development in the area of Computer Science & Engineering.

M3: Developing communication skill, team work and leadership qualities for continuing education among the students, through project based and team based learning.

M4: Inculcating ethics and human values for sustainable societal growth and environmental protection.

M5: Empowering students for employability, aspiring higher studies and to become entrepreneur.

PROGRAM EDUCATIONAL OBJECTIVES

PEO 1. Apply computer science theory blended with mathematics and engineering to model computing systems.

PEO 2. Nurture strong understanding in logical, computing and analytical reasoning among students coupled with problem solving attitude that prepares them to productively engage in research and higher learning.

PEO 3. Communicate effectively with team members, engage in applying technologies and lead teams in industry.

PEO 4. Engage in lifelong learning, career enhancement and adapt to changing professional and societal needs.

Mr. Ragesh, Mr. Neeraj and Mr. Rahul, Semester 5 CSE students won the first prize in the “Triviathon-“, Inter-collegiate Quiz competition organized by Amal Jyothi College of Engineering.



Two teams from CSE Department has cleared the CSI-InApp competition first round organized by KTU

Team 1 members:

Arundathi (S8 CS1)

Ajil (S8 CS1)

Ardra (S8 CS1)

Ajser (S8 CS1)

Team 2 members:

Sandeep (S3 CS2)

Mukul (S3 CS2)

Novaneeth (S3 CE)

Four students from S4 and Four students from S6 were shortlisted for the Matsue Internship Program 2022 after conducting Technical tests and interviews.

Ms. Neethu Sunil, final year CSE student, SSET has received job offer from TOA Software Corp, Japan with a starting salary of 1,90,000 JPY/month. Earlier Ms Neethu was selected for the Matsue Internship program 2019-20

Gopika Dinesan S4 CS1 , has been selected as WIE Team member in RFID council IEEE Kerala Section, May 2021



Team - Imperium with team members Abhijith, Akshay Shilesh and Amin from S6 CSE were selected in the top 5 presentations in "Techhackz'21" at the Intra SCMS Virtual Hackathon Competition organized by SCMS School of Technology and Management. They presented their idea of smart bike governor.

Ms.Asha S, Vaibhav Nair, Neeraj Sagar, Silpa P T, Merin Mary Sabu, published a paper titled "QVID: AI based Salon Booking Application" at International Journal of Engineering Research & Technology (IJERT), Volume 10 ,Issue 5 , May - 2021.

Based on the performance in HackWithInfy 2021, Rahul Mohan from S6 has been shortlisted for a direct pre-placement interview opportunity for the role of Digital Specialist Engineer at Infosys at 5LPA salary.

Ms. Ardra Prasad MCA student won the first runner up in dance at the online Techno Cultural Fest conducted by College of Engineering Poonjar. Please insert the photo here [Deepa miss]

Faculty Achievements

Dr. Varun G. Menon published a research article titled "Efficient Flow Processing in 5G-Envisioned SDN-Based Internet of Vehicles Using GPUs", in IEEE Transactions on Intelligent Transportation Systems, 2020. doi: 10.1109/TITS.2020.3038250 [SCIE, SCOPUS, Impact Factor 6.319]

The Guest Editorial on "Cognitive Analytics of Social Media for Industrial Manufacturing" was published in IEEE Transactions on Industrial Informatics with Impact Factor 9.5. Dr. Varun G Menon, SCMS School of Engineering and Technology, Dr. Ali Kashif Bashir, Manchester Metropolitan University UK, Prof. Shahid Mumtaz, Huawei Sweden and Prof. Kim Fung Tsang City University of Hong Kong were the editors.

Three proposals have been submitted to the KTU CERD Student Project Proposal funding program by Ms. Susmi, Ms. Asha and Dr. Anu V. R.

Submitted a research proposal for Research Seed Money by CERD, KTU

Springer published the edited book and conference proceedings on "Cloud Computing" by Dr. Varun G. Menon as part of the 10th EAI International Conference CloudComp 2020, Qufu, China on 10th February 2021.



Ms. Sreeja Rajesh and Ms. Geethu S Kumar presented a paper titled “A study of various thermographic methods for the detection of diseases' at the International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV 2021) on 4th Feb.

Ms. Shilpa PC presented a paper titled “Sentiment Analysis using Deep Learning” at the International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV 2021) on 4th Feb.

Ms. Binu John presented a paper titled “Twitter sentiments: A machine learning approach” at the International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV 2021) on 4th Feb

Dr. Varun G. Menon, Associate Professor, SSET and Dr. Deepak P, Queen’s University, UK was the resource persons for the panel discussion on “Connected Vehicles: Ethics” conducted by IEEE Signal Processing Society Kerala Section on 21st Feb 2021



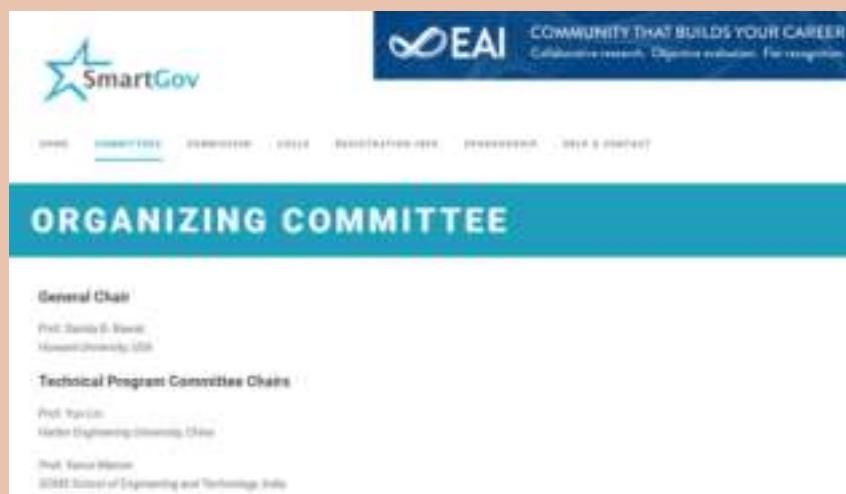
Dr. Varun G. Menon has been selected as the Publicity chair of the 2021 IEEE 26th International Workshop on Computer Aided Modeling and Design of Communication Links and Networks (CAMAD), Porto, Portugal.

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Dr. Varun G. Menon is the organizing committee member of workshop on "Emerging technologies for AI, IoT, and Big Data" at IEEE International Conference on Omni-Layer Intelligent Systems -IEEE COINS 2021, Barcelona Spain

Dr. Varun G Menon has been selected as the TPC Chair of the EAI SmartGov 2021 - 3rd EAI International Conference on Smart Governance for Sustainable Smart Cities.



An FDP proposal on Data Science has been submitted by Ms. Nisha S Raj to Atal FDP scheme by AICTE

Dr. Anu VR has submitted a proposal on technical writing at the Ujjaini program by KTU.

Ms Sreeja Rajesh conducted sessions on "Mentoring" for students at SCMS School of Technology and Management.

Ms. Nisha S Raj delivered a talk on “Innovative Approaches to Teaching and learning for Digital Age” on 15th March 2021 at Mini Seminar Hall SSET 2.00 TO 3.00 PM as part of the CSE department Knowledge Sharing Program (KSP



Ms Jency Rena presented a paper named "Excavation of Time sliced and Cost based KDD for the lead generation and promotion on B2C/B2B Sales" at the 2021 7th International Conference on Advanced Computing and Communication Systems Sri Eshwar College of Engineering Coimbatore, India, March 19-20, 2021.

A team from CSE department, SSET has qualified for the Grand Finale of Toycathon 2021 organized by the Innovation Cell, Ministry of Education with support of AICTE for their idea. The team has been shortlisted based on their idea Secret of the Vedas-Action Adventure Game. The team comprises Mr. Fazal Jabbar, Mr. Abhishek R, Mr. Arjus S, Ms. Abhinaya, Ms. Gayathri S and Ms Jagan Venugopal, Semester 5 CSE students and mentored by Ms. Rosebell Paul, Assistant Professor Department of CSE.

A Guest Editorial on Enabling Massive IoT with 6G: Applications, Architectures, Challenges, and Research Directions was published in IEEE Internet of Things Journal, Impact Factor 9.5 Authors: Shahid Mumtaz, Varun G. Menon, Anwer Al-Dulaimi, Muhammad Ikram Ashraf, Mohsen Guizani.

The training program to support student placements was organized on 24th, 25th and 26th March by The Technical Club of CSE department in collaboration with department of EEE. Ms. Sindhya Nambiar and Ms. Asha S, Assistant Professors, CSE took the technical sessions on C programming language for Semester 8 EE students and Semester 6 EE students.

The training program to support student placements was organized on 24th, 25th and 26th March by The Technical Club of CSE department in collaboration with department of ECE. Ms. Bini Ommen and Ms. Josna Philomina, Assistant Professor CSE would be taking placement oriented technical sessions on Java programming language for Semester 8 ECE students.

Ms. Sreeja Rajesh and Ms. Geethu S Kumar along with the student members of CSE Hackathon Club conducted a training session on “How to approach a Hackathon” for all the interested students in CSE department on 30th March 2021

Ms. Sreeja Rajesh and Ms. Geethu S Kumar along with the student members of CSE Hackathon Club conducted a training session on “How to approach a Hackathon” for all the interested students from all the non-CSE departments on 31st March 2021.

A Guest Editorial on Enabling Massive IoT with 6G: Applications, Architectures, Challenges, and Research Directions was published in IEEE Internet of Things Journal, Impact Factor 9.5 Authors: Shahid Mumtaz, Varun G. Menon, Anwer Al-Dulaimi, Muhammad Ikram Ashraf, Mohsen Guizani.

PG Vinoj, Sunil Jacob, Varun G Menon, Venki Balasubramanian, Md Jalil Piran, “IoT-powered deep learning brain network for assisting quadriplegic people” has been published in Computers and Electrical Engineering with Impact Factor 2.663. (SCIE and Scopus indexed)

Ms. Sreeja Rajesh was part of the team that Conducted Robotics Skills Development Workshop-2021 for school students on 23 & 24 April 2021

A total of 105 registrations have been received for the KTU sponsored FDP on “Research Trends in Social Network Analytics” scheduled from 26th April 2021 to 30th April 2021.

A Research proposal on “ContextAuth- An implicit authentication mechanism for smart phones” by Ms. Susmi Jacob has been selected for the final Presentation by KTU for RSM funding

Ms. Sindhya K Nambiar and Ms. Asha S handled session on Three-Day Workshop on C Programming Language organized by HackElite- Technical Club, Dept. of Computer Science & Engineering for S6 CSE students from 7th to 9th April 2021.



A KSP session on “How to write a peer review” by Dr. Varun G. Menon was conducted for faculty on 14th May 2021. 46 faculty participated in the session.



RSM Proposal shortlisted for Final presentation (CERD, KTU)

.Ms. Arshey M presented a paper titled "Bio-inspired Metaheuristic Optimization Technique for the Detection of Phishing Emails" at ICCIDT 2021 at Mangalam Engineering College, Kerala.

Varun G Menon, Ranga Rao Venkatesha Prasad, Shahid Mumtaz, Anwer Al-Dulaimi, Mohsen Guizani, published the editorial on Green Internet of Things: Challenges and Future Opportunities—Part I in IEEE Transactions on Green Communications and Networking

3Ms. Sreeja Rajesh was the Resource person and organizing member of online workshop on "Familiarization of Open-Source software for Robotics and Embedded Systems 2021" by SCMS Centre for Robotics, SSET, Karukutty

Dr. Varun G. Menon is selected as Associate Guest Editor of IEEE Journal of Biomedical and Health Informatics with Impact Factor 6.699.

Ambigavathi Munusamy, Mainak Adhikari, Venki Balasubramanian, Mohammad Ayoub Khan, Varun G Menon, Danda Rawat, Satish Narayana Srirama published the research article titled "Service Deployment Strategy for Predictive Analysis of FinTech IoT Applications in Edge Networks" in IEEE Internet of Things Journal with Impact Factor 9.6 (SCIE and Scopus indexed).

Ms. Asha S completed the IBM Professional Certificate on IBM Machine Learning.

Ms. Gayathry S Warriar presented a paper titled "A method for enhancing the images for early detection of Scoliosis" at ICCIDT 2021 at Mangalam Engineering College, Kerala

Dr. Varun G. Menon, Associate Professor, SSET has been nominated to the IEEE Standards Association P1932.1 Working Group.

M. Arshey and K. S. Angel Viji, "Thwarting Cyber Crime and Phishing Attacks with Machine Learning: A Study," 2021 7th International Conference on Advanced Computing and Communication Systems (ICACCS), 2021, pp. 353-357, doi: 10.1109/ICACCS51430.2021.9441925.

Ms Gayathry S. Warriar and K. S. A. Viji, "Segmentation of Spinal Canal using Active Contour Model," 2021 Seventh International conference on Bio Signals, Images, and Instrumentation (ICBSII), 2021, pp. 1-4, doi: 10.1109/ICBSII51839.2021.9445160.

Ms. Sindhya Nambiar presented a paper titled "Attention based abstractive summarization of malayalam document" in "5th International Conference on AI in Computational Linguistics" , June 4th-5th, 2021, UAE.

Ms. Sindhya. K. Nambiar, S. David Peter and S. M. Idicula, "Abstractive Summarization of Malayalam Document using Sequence to Sequence Model," 2021 7th International Conference on Advanced Computing and Communication Systems (ICACCS), 2021, pp. 347-352, doi: 10.1109/ICACCS51430.2021.9442060.

A session on “Drafting a good research article” was conducted by Dr. Varun G. Menon for the faculty at SCMS School of Architecture. Please insert the poster here [Geethu miss].



Dr. Varun G. Menon has been nominated to the Executive Committee of IEEE Kochi section and in charge of educational activities.

Ms. Gayathry Warriar presented a paper "TASTEDIARY – A WORLD TO FIND YOUR TASTE” at Recent Innovations in Science & Technology International Virtual Conference on 19th June, 2021

Dr. Varun G. Menon was the resource person for the Knowledge Sharing Program (KSP) session on “How to make online classes interactive” conducted for all faculty at SCMS Group of Educational Institutions on 29/06/2021.



Rosebell Paul, Neenu Sebastian, P. S. Yadukrishnan, Parvathy Vinod, "Study on Data Transmission Using Li-Fi in Vehicle to Vehicle Anti-Collision System.", 2021, 3rd International Conference on Computer Networks, Big Data and IoT ICCBI 2020, Lecture Notes on Data Engineering and Communications Technologies, vol 66. Springer, Singapore.

Webinars and Workshops

An online talk on “Block chain” was delivered for students and faculty by Mr. Raj Kapoor, CEO India BlockChain Alliance on 14th Jan.



An online talk on “Data Analytics” was conducted by Mr. Aravind Anilkumar, System Analyst, TransUnion Global on 15th Jan. He is also 2013 passout from SSET B.Tech CSE.

An alumni talk by Mr. Hebin Jacob on “Introduction to microservices architecture” was conducted for students on 18th Feb 2021.

The inauguration of SSET ACM student chapter was held on 6th May with the ACM Distinguished Talk by Dr. Ali Kashif Bashir, Manchester Metropolitan University, United Kingdom.

An alumni talk by Mr. Nihal Pradeep on “Into the Future” was conducted on 12th May 2021.

An online talk by Dr. Vishnu Sankar P, Research Officer, IPR, CUSAT on “Intellectual Property Rights: - An overview on importance of IPR protection” was conducted on 1st June 2021 3 to 4 pm.

A talk by Mr. Vinod Chacko, the Founder, and CEO of flexicloud.in on Git for version control and collaboration was organized by ACM Student Chapter of SSET on June 23rd, the birth anniversary of Prof. Alen Turing, the Father of Modern Computer Science.

Competitions

An interdepartmental quiz competition was conducted on 1st March 2021 by the CSE department Quiz club led by Ms. Susmi Jacob and Ms. Binu John.



Department of Computer Science and Engineering, SCMS School of Engineering & Technology is organizing “INNOVATE CREA-2021”, an INTRA SCMS Hackathon Competition which is scheduled from 22nd June 2021 to 9th July 2021 in the virtual mode. The forms for registration have been sent to students.

FDP

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SSET SCMS School of Engineering & Technology
Compu Vidya Nagar, Karukottu, Ernakulam - 683074
Tel: 7034780073, 7034780074, +91 4842862900

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5 DAY ONLINE FACULTY DEVELOPMENT PROGRAM ON
RESEARCH TRENDS IN SOCIAL NETWORK ANALYTICS
MAY 24TH-28TH 2021

**DEPARTMENT OF COMPUTER SCIENCE
AND ENGINEERING**