



## **Special Session – Women in Science & Engineering (WISE)**

The Special Session on “Women in Science & Engineering (WISE)” is led by the students of Sri Sairam Engineering College who are currently interning with MIT Square and volunteering with Raj Square Charity Foundation (RSCF), India.

To celebrate International Women’s Day on March 8th 2021, the women students from Sri Sairam Engineering College, Chennai academically mentored by Dr Sumathi S and Dr Panjavarnam B; industrially mentored by Ms Bhuvaneshwari and Dr Mithileysh; are organising a special session on “Women in Science & Engineering (WISE)”. This is part of the Sustainable Development Goals (SDG) initiated by the United Nations.

In the last few years, technologies are constantly evolving and finding new applications in the field of engineering. This has motivated in promoting women engineers, scientists, educators and researchers for better recognition in the workplace and empower them for career advancement to contribute in the engineering developments. The special session will build a professional network of women engineers, scientists and technologists offering inspiration, support and professional development. By collaborating, we support and inspire women to achieve as engineers, scientists and as leaders; we encourage the education of engineering; and we support organisations with gender diversity and inclusion.

In collaboration with Raj Square Charity Foundation (RSCF), we would like to invite women engineers, scientists, educators, students and policymakers from academic sector, government, industry and non-governmental organizations to discuss, share and promote current works and recent accomplishments across all aspects of traditional and latest science and engineering topics.

Raj Square Charity Foundation is committed to provide comprehensive, affordable and quality educational services to the neediest and to make India a better nation with 100% literacy rate for all citizens by marching towards achieving various goals discussed and raised by the UNESCO.

### **Key points and why to submit papers and/or attend?**

- A special session on latest trends, applications and products in the area of science and engineering.

- Learn about cutting edge technologies on which you can pursue higher studies or work in companies. Internship opportunities in India and Abroad.
- Networking and mentoring opportunities from internationally recognized experts.
- Prominent international experts as keynote speakers.
- Social networking with peers.
- Showcase your projects to the world.
- A special recognition/award/cash prizes for the best research paper.

## Student Organizers

- Kajol Mohanty, Sri Sairam Engineering College
- Subiksha Santhanam, Sri Sairam Engineering College
- Kirthikka Shashidhar, Sri Sairam Engineering College
- Sujal BH, Sri Sairam Engineering College
- Revanya Devi M, Sri Sairam Engineering College
- Srilakshmi, Sri Sairam Engineering College
- Subhashree, Sri Sairam Engineering College

## Executive Team

- Dr Sumathi S, Sri Sairam Engineering College, Chennai
- Dr Panjavarnam B, Sri Sairam Engineering College, Chennai
- Dr Sharanya Rajan, University Hospital Southampton NHS Trust, UK
- Bhuvaneshwari Loganathan, Raj Square Charity Foundation, India
- Sanchita Roy, Raj Square Charity Foundation, India
- Sushila Rajan, MIT Square, India
- Aruna HP, MIT Square, India
- Divya Ganesh, Accenture, India

## Head

Dr Mithileysh Sathiyarayanan  
 Founder & CEO, MIT Square, London  
 Founder & Chairman, Raj Square Charity Foundation

## Types of Papers

We accept papers in two forms under various tracks listed below:

**REGULAR PAPER** – A regular full paper is a basic standard paper with complete methodology, methods, results and discussions but without plagiarism (4-6 pages).

**POSITION PAPER** – A position paper (work-in-progress paper) is for ideas that have limited results, per se, but are worth communicating to the community, or for announcing a result that has been published with another community but without plagiarism (5-6 pages).

## Topics

**Digital Science & Engineering** – digital design, software development (desktop development, web development, mobile development), social media platforms, ICT, computer-supported cooperative work (CSCW), video games, digital tools, digital technologies, digital communication, digital marketing, digital culture, digital practice, digital contents, digital images, digital audios, digital videos, digital storytelling, digital archives & digital scholarship

**Physical Science & Engineering** – physical experience design (PXD), Industry 4.0, industrial design, behavioural design, multi-sensory experience, usability, electronic design, cyber-physical systems (CSM), cyber-physical social machines (CPSM), phygital design

**Interactive Science & Engineering** – UI/UX, voice recognition, gesture recognition, wearable devices, immersive technologies (AR / VR / MR), connected products (IoT / IoE / IoA), 2D/3D modelling, assistive technologies, disruptive technologies, design & development, testing & evaluation, human factors / ergonomics

**Web Science & Engineering Experience** – world wide web (www), socio-technical systems, social networks, web analytics, digital/web anthropology, digital/web sociology, knowledge representation, decision-making, sense-making, provenance

**Design Science & Engineering** – systematic reviews, quantitative studies, qualitative studies, human-centric approach/analysis, design studies, design thinking, product development, new product development (NPD), social innovation, capacity building, co-design, community-led design, design & innovation

**Data Science & Engineering Experience** – ML / AI, big data, digital analysis, data analysis, statistical analysis, business intelligence, textual mining, visual analysis, information visualisation, data visualisation, computational & statistical analysis

**Crowd Science & Engineering** – participatory engagement process, participatory monitoring, participatory assessment, participatory action research (PAR), crowdsourcing, networked science

**Open Science & Engineering** – open data, open access, open source, open scholarships, open policies, open methodology, open notebooks, open bibliography, open codes, open tools, open peer review, open evaluation, open prototypes, open hardware, open educational resources, open public resources, open collaborative tools, open funding, open innovation, open workflows, scientific social networks, equity, diversity inclusion

**Information Science & Engineering** – information management, information retrieval, metadata, educational informatics, organisational informatics, health informatics, digital informatics, cyber informatics, social informatics (e-governance, e-commerce, online communities, social networks, etc.)

**Visual Science & Engineering** – visual analysis, information visualisation, data visualisation, healthcare visualisation, educational visualisation, knowledge visualisation, product

visualisation, narrative/storytelling, smart dashboards, aesthetics, heuristics, computational & statistical analysis

**Business Science & Engineering** – employer / employee experience, organisation / business perspectives, cultural & social analysis, literary analysis, spatial humanities, behavioural analysis, cognitive analysis, social media analysis, organisation analysis, entrepreneurial thinking, organisation practices and policies, compliance, social causes, social values, social media, work culture, human behaviour, evaluation, psychology, human perception & cognition.

**Educational Science & Engineering** – trainer / learner experience, school / college / university experience, education perspectives, education culture, pedagogy, education analysis, higher education, geriatric training & learning, inclusion, accessibility, differently-abled training & learning (visual, auditory, vocal/verbal, kinaesthetic & tactile), specially-abled, special education needs, learning difficulties, reading/writing/listening/speaking analysis, intervention programs, education promotion, education practices and policies, compliance, creative thinking, education transformation.

**Health Science & Engineering** – doctor / patient experience, healthcare professionals experience, doctor-patient concordance, healthcare perspectives, healthcare culture, healthcare practices, health promotion, healthcare transformation, healthcare system, intervention programs, compliance, healthcare practices and policies.

**Forensic Science & Engineering** – organisation / business forensics, eDiscovery / eDisclosure, social media and network forensics, IoT forensics, digital intelligence & investigation, document investigation, data investigation, investigator experience.

**Agricultural Science & Engineering** – agro production, horticulture, soil analysis, water analysis, production techniques (e.g., irrigation management, recommended nitrogen inputs).

## Submission Guidelines

Submit your paper in IEEE format. Submitted work should be original and application oriented. Acceptance will be based on reviewer's comments that will address the strong and weak aspects with suggestions to improve the work.

Submission details and link: <http://www.iceccme.com/submission>

Contact: Dr Mithileysh Sathiyarayanan ( [s.mithileysh@gmail.com](mailto:s.mithileysh@gmail.com) )