- Accommodation, TA & DA will not be provided.
- Participants may bring their laptops if they have.
- Working lunch and refreshments will be provided.
- Certificates will be given to all the participants.

Organizing Committee

Sri. G. S. Raghunathan

Chairman, CSI Tiruchirappalli Chapter (AGM, Informatics Centre, BHEL, Tiruchirappalli)

Dr. S. Ravimaran

Vice Chairman, CSI Tiruchirappalli Chapter (Principal, MAM College of Engineering, Tiruchirappalli)

Dr. T. Abdul Razak

Secretary, CSI Tiruchirappalli Chapter (Associate Prof. of Computer Science
Jamal Mohamed College, Tiruchirappalli)

Sri. N. Rajasekaran

Treasurer, CSI Tiruchirappalli Chapter (Senior Manager, BHEL, Tiruchirappalli)

Convener

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 AGM, SSTP(Systems), BHEL, Tiruchirappalli

Dr. M.A. Maluk Mohamed

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Sri. R. Selvaraj

Nomination Committee Chairman, CSI Tiruchirappalli Chapter (Senior Manager, BHEL, Tiruchirappalli)

Sri. N. Sekar

Member Division III, CSI Tiruchirappalli Chapter (Retd. Senior Manager, BHEL, Tiruchirappalli)

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International Workshop on

IMAGE PROCESSING RESEARCH WITH MATLAB

30th & 31st July 2015

Organized by

COMPUTER SOCIETY OF INDIA – TIRUCHIRAPPALLI CHAPTER

in Technical Collaboration with the

IEEE

SCФM

IEEE Podhigai Sub-section and IEEE Signal Processing / Computational Intelligence / Computer Joint Societies Chapter (SIPCICOM) of Madras Section

Venue:
Bharathidasan University Technology Park (BUTP)
Khajamalai Campus, Tiruchirappalli – 620 023
Tamil Nadu, India

About Computer Society of India

Formed in 1965, the CSI has been instrumental in guiding the Indian IT industry down the right path since its formative years. Today, the CSI has 72 chapters all over India, 511 student branches, and more than 100000 members including India's most famous IT industry leaders, brilliant scientists and dedicated academicians.

The mission of the CSI is to facilitate research, knowledge sharing, learning and career enhancement for all categories of IT professionals, while simultaneously inspiring and nurturing new entrants into the industry and helping them to integrate into the IT community. The CSI is also working closely with other industry associations, government bodies and academia to ensure that the benefits of IT advancement ultimately percolate down to every single citizen of India.

About Tiruchirappalli Chapter

Started in 1986 with an initial membership of 73 members, the chapter has grown to over 500 members as on date. The chapter remains one of the most active chapters in the country and has won the Best Chapter Award five times for the years 1990-1991, 1997-1998, 2003-2004, 2007-2008 and 2011-2012. The chapter also has the distinction of having the highest number of student branches. Student branches attached to the Tiruchirappalli Chapter have also won Best Student Branch Award many

times. The chapter has been continuously enjoying the patronage of Bharat Heavy Electricals Ltd., Anna University, Tiruchirappalli, National Institute of Technology, Bharathidasan University Technology Park, M.A.M. College of Engineering, Jamal Mohamed College, Srimati Indira Gandhi College and many other Institutions in and around Tiruchirappalli.

About the Workshop

Image Processing is considered to be one of the most rapidly evolving areas of research and technology today with growing applications in almost all disciplines. Medical image analysis, computer vision, satellite image processing, document image analysis, biometrics, remote sensing, space exploration, etc. are some of the applications of Image Processing. A large number of smart devices, to a greater extent, are banking heavily on image processing based techniques to deliver applications that are central to provide next generation smart environment.

The workshop will cover the underlying principles and areas of Digital Image Processing and will provide a strong base for performing independent research. Hands-on sessions using MATLAB will also be conducted. The workshop is aimed for the research scholars, teachers, and students as well as for the professionals working in the industry.

The major topics that shall be covered through different sessions are:

Session-1: Introduction, Image Processing Applications and Areas

Session-2: Image Enhancement in Spatial domain: Negative, Contrast Stretching, Histogram Equalization, Filtering: Average Filter, Weighted Average Filter, Median Filter, Laplacian Filter etc. Image Restoration

Session-3: MATLAB Introduction, MATLAB Exercises of Session-2

Session-4: Image Transforms: Fourier and Discrete Cosine Transform with Applications, Image Enhancement in Frequencydomain.Introduction of other Image Processing Areas including Compression,Segmentation, Representation and Recognition.

Session-5: MATLAB Exercises from Session-4

Session-6: Research Methodology in Image Processing with hands-on examples

Resource Person

Dr. Justin Varghese, M.Tech., Ph.D.
Associate Professor, College of Computer Science
King Khalid University, Abha, Kingdom of Saudi Arabia

An expert in the field of Image Processing, Visual Perception, Mathematical Morphology, Digital Watermarking, Fuzzy Logic and Pattern Recognition, who has published over 50 research papers in refereed International journals including the IEEE, and IET Image Processing Journal. He served as Resource Person, Session Chair, Organizing and Editorial Committee Member of various National/international Conferences / Journals. He also serves as Reviewer of many Reputed Journals including IEEE Trans. on Fuzzy Systems, IEEE Signal Processing Letters, IET Image Processing, and Elsevier Signal Processing Journals.

Registration Fee

For CSI Members / Research Scholars	: ₹ **1000/-**
For Non CSI Members / Faculty Members	: ₹ **1200/-**
For Persons from the Industry	: ₹ **1500/-**

Instructions

- Registration fee shall be paid by cash on the spot.
- Number of participants is strictly limited to 60 on first-come-first-served basis.
- **Participation to the workshop should be confirmed by sending an email, to abdul1964@gmail.com, on or before 25-07-2015. The email should contain your name, designation, institution/organization address, email id and mobile number.**