

## National Institute of Technology Tiruchirappalli

The National Institute of Technology (formerly known as Regional Engineering College) Tiruchirappalli (NITT) was started as a joint and co-operative venture of the Government of India and the Government of Tamil Nadu in 1964 with a view to catering the needs of manpower in technology for the country. NITT is one of the 31 National Institutes of Technology established by the Government of India and ranks First among all the NITs in NIRF during three consecutive years. The institution offers Undergraduate Courses in ten branches and Post Graduate Courses in twenty-one disciplines of Science, Engineering & Technology besides M.S. (by Research) and Ph.D. in all the departments.

Website: <https://www.nitt.edu>

### IEEE Student Branch - NITT

The world's leading professional organization for the advancement of technology has a local address at NIT, Tiruchirappalli. Members rely on the IEEE as a source of technical and professional information, resources, and services. To foster an interest in the engineering profession, the IEEE SB NITT indulge in various technical and non-technical activities. Other important constituencies include prospective members and organizations that purchase IEEE products and participate in conferences or other IEEE programs. IEEE SB NITT and its technical chapters encompasses undergraduate, postgraduate and Ph.D. Scholars from various departments.

Website: <https://site.ieee.org/sb-nitt/>  
<https://www.nitt.edu/home/students/clubsassoc/academic/ieee/>

### RSF NITT

RSF (Research Scholars Forum) is the forum functioning for the welfare of researchers in NITT since 2015. RSF was formed as an official club of NITT in 2017 with the help & support of Institute functionaries. RSF NITT mainly focus on organizing workshop, seminar and guest lecture regularly with experts from academic institution and R&D to aid the scholars in their research works and to make a research friendly campus.

Website: <https://rsf.nitt.edu>

## Theme of the Workshop

Bio-inspired computing optimization algorithms is an emerging approach that is based on the principles and inspiration of the biological evolution of nature to develop new and robust competing techniques. In the last years, bio-inspired optimization algorithms are recognized in machine learning to address the optimal solutions of complex problems in science and engineering. To tackle the problems of the traditional optimization algorithms, the recent trends tend to apply bio-inspired optimization algorithms which represent a promising approach for solving complex optimization problems.

### The vision of the workshop is as follows.

- To give an insight into the bio-inspired algorithms.
- To give hands-on sessions on various algorithms using MATLAB.
- To give practical research applications of the bio-inspired algorithms
- To give possible variants and future research directions in bio-inspired algorithms.

### We are planning to cover the following topics through the workshop.

- Introduction to bio-inspired algorithms
- Single and multi-objective optimization problems
- Criteria and objective functions.
- Hands-on sessions on different algorithms using MATLAB.
- Research advances in optimization techniques using bio-inspired algorithms.
- Practical research applications
- Future research directions.

## Online MATLAB Workshop

on

# “Bio-inspired Optimization Algorithms”

04<sup>th</sup> - 08<sup>th</sup> January 2022  
4:30 PM - 6:00 PM

Organized by

IEEE Computer Society  
Chapter,  
IEEE Student Branch  
&  
RSF NITT



IEEE  
COMPUTER  
SOCIETY



IEEE  
Student Branch - NITT



RSF NITT



National Institute of Technology  
Tiruchirappalli

## Registration Fees (Inclusive of GST as applicable)

Category	Amount in Rs.
Non – IEEE Members	500
IEEE Student Members	450
Non – IEEE NITT Participants	300
IEEE NITT Participants	250

- ✓ The maximum number of participants will be limited to 100. Hence participants are advised to register early.
- ✓ Presentation material will be shared through G drive for limited period for downloading by participants.

## Registration & Payment Process

- Everyone willing to participate in the workshop must register by filling the Google Form (with all details including payment details) on or before **03.01.2022, 04:00 PM (IST)**.  
<https://forms.gle/TFQAHjrFCkchq6Ej6>
- Registered participants will be intimated through the mail.

**Request for refund of registration fee will not be entertained.**

## For Event Related Queries, Contact

- ✓ **Kannadasan, K.**  
Chairman, IEEE CS Chapter & IEEE SB,  
NIT Tiruchirappalli.  
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- ✓ **Amal V Purushothaman**  
Treasurer, Research Scholars Forum,  
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## Payment Guidelines

- ✓ Payment shall be made **ONLY** through SBI Collect (State Bank of India) or UPI ID.
- ✓ Cash / Demand Draft / Cheque / Pay Orders, etc. are **NOT ACCEPTED**.

### Step-by-step procedure to make payment via SBI Collect:

- ✓ **Step-1:** Go to the link:  
<https://www.onlinesbi.com/sbicollect/icollecthome.htm>
- ✓ **Step-2:** Select the following from dropdown menu: State of Corporate / Institution: **Tamil Nadu** Type of Corporate / Institution: **Educational Institutions**
- ✓ **Step-3:** Select the following from dropdown menu: Educational Institutions Name: **IEEE SB NITT**
- ✓ **Step-4:** Select the following from dropdown menu: Select Payment Category: **Registration Fee**
- ✓ **Step-5:** Provide all details of payment >> **Then submit**

### Step-by-step procedure to make payment via UPI ID:

- ✓ **Step-1:** Goto any UPI payment App (BHIM, Gpay, PhonePe, etc.)
- ✓ **Step-2:** Click on New Payment.
- ✓ **Step-3:** Enter UPI ID ([ieeesb@sbi](mailto:ieeesb@sbi)) or scan the QR code given and verify that you can see the Merchant Name as 'DIRECTOR NIT TRICHY'.
- ✓ **Step-4:** Make the payment.



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**04<sup>th</sup> - 08<sup>th</sup> January 2022**  
**4:30 PM - 6:00 PM**

### Who can apply?

**Students, Research Scholars,  
Employees, Faculty members, Anyone  
with keen interest to learn**

### COORDINATORS

**Dr. B. Shameedha Begum,**  
Assistant Professor/CSE &  
IEEE CS Chapter Advisor

**Dr. M. P. Selvan,**  
Associate Professor/EEE &  
IEEE SB Counsellor

**Mr. Kannadasan K,**  
Chairman,  
IEEE CS Chapter & IEEE SB

**Mr. V Srinivasa Rao**  
President  
Research Scholars Forum

**National Institute of Technology,  
Tiruchirappalli.**