

## International Summer School

**Nature Inspired Optimization Techniques and their Applications**  
September 10 – September 19, 2022 (4 p.m. - 8 p.m.)

Jointly organized by  
**E&ICT Academy IIT Roorkee and Soft Computing Research Society, New Delhi**



### Course Contents

- Genetic Algorithms
- Particle Swarm Optimization
- Differential Evolution
- Spider Monkey Optimization
- Grey Wolf Optimization
- Fire Fly Algorithm
- Constrained and Multi-objective Optimization
- Examples and Implementations
- Case studies

### Speakers

- Prof. Seyedali Mirjalili (Center for Artificial Intelligence, Research and Optimization, Torrens University, Australia)  
<https://research.torrens.edu.au/en/persons/seyedali-mirjalili>  
email: [seyedali.mirjalili@alumni.griffithuni.edu.au](mailto:seyedali.mirjalili@alumni.griffithuni.edu.au)
- Prof. Xin She Yang (Design Engineering and Mathematics Middlesex University, London, UK)  
<https://www.mdx.ac.uk/about-us/our-people/staff-directory/profile/yang-xin-she>  
email: [x.yang@mdx.ac.uk](mailto:x.yang@mdx.ac.uk)
- Prof. J. C. Bansal (South Asian University, New Delhi)  
<http://people.sau.int/~jcbansal/>  
email: [jcbansal@sau.ac.in](mailto:jcbansal@sau.ac.in)
- Prof. Kusum Deep (Department of Mathematics, Indian Institute of Technology Roorkee) (Course Coordinator)  
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### Chief Investigator, EICT IITR

**Prof. Sanjeev Manhas**  
IIT Roorkee

### Course Coordinator

**Prof. Kusum Deep**  
IIT Roorkee

### Programme Features

- There will be a four-hour session consisting of Lecture, Practical on MATLAB, Q&A, and Quiz daily.
- MATLAB will be used for Hands-on / Practical / Lab Sessions.
- Opportunities to connect with experts from Academia.
- Certificate will be awarded on course completion.

### Registration Details

Registration Link: <https://forms.gle/AZR83ivjCXWPf1Rz8>

Registration fee	Amount (including taxes)
Soft Computing Research Society or Indian Institute of Technology Roorkee	Rs. 5,000/-
Soft Computing Research Society and Indian Institute of Technology Roorkee	Rs. 4,000/-
Others	Rs. 8,000/-
International	USD (\$) 150

Please click for payment of registration fees  
<https://eict.iitr.ac.in/instruction-for-payment/>

For more details, please visit: <https://eict.iitr.ac.in/>

**Last Date for Registration**  
**September 08, 2022**

### Contact Us

Contact Us :  
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