Indian Institute of Technology Patna
Department of Mathematics

Continuing Education Programme
On
Recent Trends in Convex Optimization:
Theory, Algorithms and Applications
(RTCOTAA-2020)
29th - 31st October 2020

Coordinator
Dr. B. B. Upadhyay, IIT Patna

Important Dates
Last date of Registration & Payment: **25th October 2020**
Confirmation and Invitation link : **28th October 2020**

Course Description and Content
This online CEP will provide a forum for reviewing and discussing all aspects of convex optimization theory, both for scalar and multiobjective optimization problems and several algorithms, which are widely used to solve convex optimization problems. The programme includes, but is not limited to the following topics:
• Basics of Convex Optimization Theory
• Steepest Descent Method
• Accelerated Gradient Descent Method
• Subgradient Method and Complexity Analysis
• Modified Newton's Method
• Interior Point and Lemke's Algorithms
• Applications in Machine Learning & Signal Processing

Resource Person(s)
Prof. Sandeep Juneja, TIFR Mumbai
Prof. S. K. Mishra, BHU Varanasi
Prof. S. K. Neogy, ISI Delhi
Prof. Joydeep Dutta, IIT Kanpur
Prof. Geetnjali Panda, IIT Kharagpur
Prof. Ketan Rajawat, IIT Kanpur

Target Audience
The course is suitable for fresher's (UG/PG including Ph.D. students), Scientists in R&D organizations, Faculty Members, and professionals interested in the domains involving research and development in theory, Algorithms and Applications of convex optimization in both smooth and nonsmooth setting.

Fee Payment
The participation fee of Rs 1000/- for the CEP will be accepted only through e-transfer /RTGS/NEFT.

Details for Online Payments:
Name of the Account: Registrar, IIT Patna
Bank: State Bank of India,
Branch: IIT Patna, Bihta
Online Payment Link:
CLICK HERE

Registration:
Make the online payment as registration form requires the screen shot of online payment, date, and reference number. For registration click on the following link:
CLICK HERE

Selection Criteria and Certificate Issuing
Selection will be done on First Come First Served basis. An E-Certificate of participation from IIT Patna will be awarded to all participants after successful completion of the course.

Address for Correspondence:
Dr. B. B. Upadhyay
Assistant Professor
Department of Mathematics
Indian Institute of Technology Patna
Mobile No.: 08729876386
Email: bhooshan@iitp.ac.in