

Special Session on “Recent Advancement in Optimization, Modeling and Simulation”

Session Chair: Dr. Pratiksha Saxena.

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Theme of Session:

Optimization techniques are used in a wide-spectrum of industries, including aerospace, automotive, chemical, electrical, and manufacturing industries. A number of models can be formulated and solved by using relevant techniques of optimization, depending on type and complexity of the mathematical model. Simulation techniques provide results for multi-variable complex models.

Aim of this session is to provide a platform for recent advances in the area of modeling, optimization, simulation and soft computing techniques.

Topics of Interest:

We invite original (un-published) research contributions based on the above mentioned theme including following topics **but not limited to**:

1. Modeling and simulation
2. Optimization techniques and applications
3. Mathematical programming and applications
4. Duality Theorems of Optimization Techniques.
5. Application of Optimization Techniques to Engineering.
6. Application of Optimization Techniques to Biological Models.
7. Application of Optimization Techniques to Animal Diet Formulation.
8. Simulation Models.
9. Modeling and simulation for optical communications

10. Soft computing techniques.

About Session Chair

Dr. Pratiksha Saxena is Assistant Professor in Mathematics Department, School of Applied Sciences, Gautam Buddha University, Greater Noida, India. She has fifteen years of teaching experience at graduation and post-graduation level. Research area is Non-linear programming and applications in animal diet formulation, Modeling, Simulation and optimization techniques. She has three books with international repute publications and a number of papers in national and international journals. She has four patents/Copyrights to her credit. She has developed several books for Calicut University and Maharshi Dayanad University. She has four patents/copyrights on her name. She is member of several professional bodies, organizing member of many conferences and published a number of articles of international repute magazine of her research area.

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