



**International Conference on**  
**Frontiers in Optimization: Theory and Applications (FOTA-2016)**  
**November 24-26, 2016**  
**Venue: Heritage Institute of Technology, Kolkata**

| <b>November 24, 2016 (Thursday)</b> |                                                                                                                                                                                                                                                                    |                                         |        |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------|
| 09:00 - 10:00                       | Registration                                                                                                                                                                                                                                                       |                                         | SVA    |
| 10:00 - 11:00                       | Inauguration                                                                                                                                                                                                                                                       |                                         | SVA    |
| 11:00 – 11:20                       | High Tea                                                                                                                                                                                                                                                           |                                         | EH     |
| 11:20 - 12:00                       | Plenary Session by Prof. Vijay Chandru,<br>Session Chair: Prof. Damodar Acharya                                                                                                                                                                                    |                                         | SVA    |
| 12:00 - 1:00                        | Keynote- I    Speaker: Prof. Tatsuo Oyama, NGIPS, Tokyo, Japan<br>Title: Operations Research for Social System Analyses in Japan: The Past, Present and Future<br>Session Chair: Prof. S. P. Mukherjee                                                             |                                         | SVA    |
| 1:00-2:00                           | Lunch                                                                                                                                                                                                                                                              |                                         | EH     |
| 2:00- 3:30                          | Paper Presentation-I (25, 28, 34, 35, 37, 40)                                                                                                                                                                                                                      | Session Chair: Prof. Amitava Chatterjee | ICT601 |
| 2:00- 3:30                          | Paper Presentation-II (22, 23, 26, 27, 38, 39)                                                                                                                                                                                                                     | Session Chair: Prof. Bijay Baran Pal    | ICT602 |
| 2:00- 3:30                          | Paper Presentation-III (6, 7, 9, 32, 36, 43)                                                                                                                                                                                                                       | Session Chair: Prof. Bijan Sarkar       | ICT603 |
| 2:00- 3:30                          | Paper Presentation-IV (46, 48, 54, 63, 71, 72)                                                                                                                                                                                                                     | Session Chair: Dr. A. J. Pal            | ICT604 |
| 3:30-3:50                           | Tea                                                                                                                                                                                                                                                                |                                         | ICT6SH |
| 3:50-4:30                           | Invited Talk-I    Speaker: Prof. K. S. Chaudhuri, Jadavpur University, India<br>Title: Two-Echelon Manufacturer-Retailer Supply Chain Strategies with Price, Quality and Promotional Effort Sensitive Demand<br>Session Chair: Prof. Bani Kumar Sinha              |                                         | ICT605 |
| 4:30-5:10                           | Invited Talk-II    Speaker: Prof. D. K. Bhattacharya, Calcutta University, India<br>Title: Continuous-discrete Mathematical Model for Control of Growth of a Plant Population in a Given Time Period under a Given Budget<br>Session Chair: Prof. Bani Kumar Sinha |                                         | ICT605 |
| <b>November 25, 2016 (Friday)</b>   |                                                                                                                                                                                                                                                                    |                                         |        |
| 09:30 - 11:00                       | Paper Presentation V (42, 50, 52, 53, 55, 57)                                                                                                                                                                                                                      | Session Chair: Prof. Manoranjan Singh   | ICT601 |
| 09:30 - 11:00                       | Paper Presentation VI (47, 58, 59, 62, 65, 70)                                                                                                                                                                                                                     | Session Chair: Prof. Avanish Kumar      | ICT602 |
| 09:30 - 11:00                       | Paper Presentation VII (1, 4, 5, 10, 16, 20)                                                                                                                                                                                                                       | Session Chair: Dr. Kingshuk Giri        | ICT603 |
| 09:30 - 11:00                       | Paper Presentation VIII (2, 3,12,18,19, 21)                                                                                                                                                                                                                        | Session Chair: Prof. Subhashis Majumder | ICT604 |
| 11:00 - 11:20                       | Tea                                                                                                                                                                                                                                                                |                                         | ICT6SH |
| 11:20 - 12:20                       | Keynote – II by Prof. Damodar Acharya<br>Session Chair: Prof. Tatsuo Oyama                                                                                                                                                                                         |                                         | SVA    |

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| 12:20 - 13:20                       | Keynote – III Speaker: Prof. S. P. Mukherjee<br>Title: Optimisation Problems in Sample Surveys<br>Session Chair: Prof. Tatsuo Oyama                                                                                                            | SVA    |
| 13:20 – 14:40                       | Lunch                                                                                                                                                                                                                                          | EH     |
| 14:40 – 16:00                       | Paper Presentation IX (41, 44, 49, 51, 56, 60) Session Chair: Prof. Tandra Pal                                                                                                                                                                 | ICT601 |
| 14:40 - 16:00                       | Paper Presentation X (61,66,67,68,69) Session Chair: Prof. Arup Bhowmik                                                                                                                                                                        | ICT602 |
| 14:40 - 16:00                       | Paper Presentation XI (11,13,14,17,30) Session Chair: Dr. Dinabandhu Bhandari                                                                                                                                                                  | ICT6SH |
| 16:00 - 16:20                       | Tea                                                                                                                                                                                                                                            | ICT6SH |
| 16:20 - 17:00                       | Invited Talk - III Speaker: Prof. Dababrata Datta, BARC, Mumbai, India<br>Title: Development of an Innovative Methodology for detection of Outliers in Experimental Data Using Fuzzy Optimization<br>Session Chair: Prof. Manoranjan Maiti     | ICT605 |
| 17:00 - 17:40                       | Invited Talk - IV Speaker: Prof. Ujjwal Moulik, Jadavpur University, India<br>Title: Multiobjective Clustering with SVM Based Ensembling for Analysis of Gene Expression Data<br>Session Chair: Prof. Manoranjan Maiti                         | ICT605 |
| 18:00 - 20:30                       | Cultural Program, Best Paper Award Announcement and Conference Dinner                                                                                                                                                                          | SVA    |
| <b>November 26, 2016 (Saturday)</b> |                                                                                                                                                                                                                                                |        |
| 10:00 - 11:00                       | Keynote – IV Speaker: Prof. Baoding Liu, Tsinghua University, China<br>Title: Uncertainty Theory: A Branch of Mathematics for Modeling Belief Degrees<br>Session Chair: Prof. Mihir Chakraborty                                                | SVA    |
| 11:00 - 11:20                       | Tea                                                                                                                                                                                                                                            | EH     |
| 11:20 - 12:00                       | Invited Talk - V Speaker: Prof. S. K. Neogy, ISI, New Delhi, India<br>Title: On a Nonconvex Optimization Problem in Graph Theory<br>Session Chair: Prof. K. S. Chaudhuri                                                                       | SVA    |
| 12:00 - 12:40                       | Invited Talk - VI Speaker: Mr. Atanu Mukherjee, Dastur Business and Technology Consulting, India<br>Session Chair: Prof. K. S. Chaudhuri                                                                                                       | SVA    |
| 12:40 – 14:00                       | Lunch                                                                                                                                                                                                                                          | EH     |
| 14:00 - 14:40                       | Invited Talk - VII Speaker: Prof. S. K. Mishra, Banaras Hindu University, Varanasi, India<br>Title: Mathematical Programs with Equilibrium Constraints<br>Session Chair: Prof. R. N. Mukherjee                                                 | SVA    |
| 14:40 - 15:30                       | Invited Talk - VII Speaker: Prof. Pawan Lingras, Saint Mary's University, Halifax, Canada<br>Title: Advances in Rough and Soft Clustering: Meta-Clustering, Dynamic Clustering, Data-Stream Clustering<br>Session Chair: Prof. R. N. Mukherjee | SVA    |
| 15:30 - 15:45                       | Tea                                                                                                                                                                                                                                            | SVA    |
| 15:45 - 16:10                       | Valedictory Session                                                                                                                                                                                                                            | SVA    |

SVA- Swami Vivekananda Auditorium, Central Block; EH-Executive Hall; SH- Seminar Hall; ICT- ICT Building