



# 1<sup>st</sup> International Conference on Mathematical Sciences and Applications

## Conference Program for 18<sup>th</sup> December 2011

**Welcome of all the participants, Registration and Collection** of Conference Kit start from 8 am to 9 am

From 9.00 am to 9.25 am.

**Special Lecture By Anuradha Gupta on Weyl type theorem and its variants, Delhi University, Delhi**

**Special Lecture By Vladas Skakauskas on A brood-parasites dynamics model, Professor of Vilnius University, Lithuania.**

**Refreshments (9.30 am to 10 am)**

**(Parallel Session) Session 1: Start from 10 am to 12 pm (Session Chair: Dr. Tilo Wendler)**

1. Detailed analysis of a dynamic coalition model of firms based on Game Theory  
Presented By Arka Bhattacharya
2. Analysis of Reflection and Transmission of Plane Waves at Thermo-Viscoelastic Solid and Liquid Interface  
Presented By Rajbir Kaur
3. Some properties of  $(s, p)$  - open and  $(s, p)$  - closed functions  
Presented By Girish Sajjanshettar

4. Combining User Expectation and Satisfaction - Extracting Main Drivers using Factor Analysis and Linear Structural Equation Models  
Presented By Dr. Tilo Wendler
5. An Interior- point Algorithm for Nonlinear Programming  
Presented By Rahmaneh Taban
6. Using Data to Calculate Complex Root of Polynomial Equation of Degree 3  
Presented By Pramod S. Jadhav
7. Graph Applications to Modern Algebra  
Presented By V.Manjula

**(Parallel Session) Session 2: Start from 10 am to 12 pm (Dr. Anuradha Gupta)**

8. Property (Bw) and perturbations  
Presented By Anuradha Gupta
9. Modeling and Control of an Inverted Pendulum  
Presented By Amol Patil
10. Optimality and Duality for Nonsmooth Vector Optimization Problem over Cones  
Presented By Pooja Louhan
11. Some Fixed Point Theorems in Hilbert Spaces  
Presented By Mittal K. Patel
12. Note on Structure theory of Planar Matrix over a noetheaian regular delta matrices(STPL-NR-delta-NR)  
Presented BN V Nagendram
13. Bhartiya New Rule for Fraction.  
Presented By Ankur Tiwari
14. An Optimal approach towards Reliability Assessment and Warranty prediction of Non-Repairable Failures in the Wind Industry  
Presented By S. S. Gopalan

**Lunch (12 Noon to 1 pm)**

**(Parallel Session) Session 3: Start from 1 pm to 3 pm (Session Chair: Dr. Thomas Kaijser)**

15. Limit theorem for Markov chains with nonlocally compact spaces  
Presented By Thomas Kaijser
16. Web Text Utilization Mining  
Presented By Heena Goyal
17. Propagation of Thermoelastic Waves in Transversely Isotropic Plate Bordered with Liquid Layers without Energy Dissipation  
Presented By S. Pathania,
18. ON CONTRA  $sps$ -CONTINUOUS FUNCTION  
Presented By SAVITA M.
19. Domination and Co - domination Numbers of Super Strongly Perfect Graphs  
Presented By MARY JEYA JOTHI. R,
20. Generalized mappings via new closed sets  
Presented By D.Saravanakumar
21. On Intuitionistic Fuzzy Magnified Translation In Groups  
Presented By P.K. Sharma

**(Parallel Session) Session 4: Start from 1 pm to 3 pm (Session Chair: Dr. Priti Kumar Roy)**

22. Recovery of infected *Jatropha Curcas* plant cells: A control based theoretical approach  
Presented By Priti Kumar Roy
23. 3-D EXACT VIBRATION ANALYSIS OF A GENERALIZED THERMOELASTIC HOLLOW SPHERE WITH MATRIX FROBENIUS METHOD  
Presented By Nivedita Sharma
24. Anti Homomorphism of Intuitionistic fuzzy magnified translation in group  
Presented By Vandana Bansal
25. Codimension reduction on contact CR-submanifold of an odd-dimensional unit sphere without maximal CR-dimension

Presented By Mehri Assadollahzadeh

26. Geometric Theory of Fields a Challenge for Mathematicians and Physicists  
Presented By Ulrich E. Bruchholz

27. Generalized Derivations of Prime Gamma Rings  
Presented By Kalyan Kumar Dey

28. OPTIMIZATION OF HEALTH-CARE RESOURCES THROUGH GOAL  
PROGRAMMING  
Presented By O.Vinod Kumar

**(Parallel Session) Session 5 : Start from 3 pm to 4.30 pm (Session Chair: Dr. Govindappa Navalgi and Shobha Lal)**

29. Radiation from Particles Falling into KERR BLACK HOLE  
Presented By SHOBHA LAL

30. Quantum ( Mechanical, Optical, Thermal and Electrical) Properties of Triglycine Sulphate (TGS) and Detureted Triglycine Selenate (DTGSe) Crystal by Mathematical (Green's Function) Method  
Presented By Ashish Nautiyal

31. A Note on Matrix Maps over a Noetherian regular delta Near Rings(MMPLNR-delta-NR)  
Presented BN V Nagendram

32. On the Estimation of Expected Time to Extinction in a Dynamical Model of HIV  
Presented By Nikhilesh Sil

33. SOME CONTRA - CONTINUOUS FUNCTIONS VIA PRE OPEN AND  $\alpha$  -OPEN SETS  
Presented By SUJATA S.M

34. QUASI CLASS Q OPERATOR  
Presented By S.K.LATHA

35. Gspr -open functions in Topological Spaces  
Presented By Chandrashekharappa A.S

**(Parallel Session) Session 6 : Start from 3 pm to 4.30 pm (Session Chair: Dr. Tadeusz**

**Kosztolowicz)**

36. The perturbation method to solve subdiffusion-reaction equations

Presented by Prof. Tadeusz Kosztolowicz

37. *SOME APPLICATIONS OF LAGRANGEAN & KARUSH - KUHN - TUCKER METHODS AND INEQUALITIES BETWEEN THE MOMENTS*

Presented by P L Sharma

38. Fuzzy differential equations with impulses and the extension principle

Presented By Bhanu Gupta

39. ON L1-CONVERGENCE OF FOURIER SERIES

Presented By Karanvir Singh

40. Coefficient Estimates for a Certain Class of Analytic Functions

Presented By Harjinder Singh

41. P5 - Factorization of complete bipartite multigraphs

Presented By Balgovind Shukla

42. Novel Method to Calculate Trigonometric Ratio

Presented By R.Shalini

**Session 7 : Start from 4.30 pm to 5.30 pm (Session Chair: D. Siva Rama Krishna )**

43. Single Server Interdependent Queueing Model with Varying Bulk Service

Presented By D. Siva Rama Krishna

44. COST ESTIMATION IN AGILE DEVELOPMENT PROJECTS

Presented By Priya Patil

45. Fekete-Szego Problem for some subclasses of analytic functions defined by Hadamard product

Presented By Virendra Kumar

46. HYDROMAGNETIC LINEAR INSTABILITY ANALYSIS OF COARSE DUSTY GAS IN MOTION

Presented By Sapna Mahajan

47. Inverse kinematics solutions of SCARA Robot by using ANFIS

Presented By Nitin Pundilkrao Chaudhary

48. Strongly summable sequence spaces defined by a sequence of modulus function

Presented By Kuldip Raj and Sunil K. Sharma

49. Extensional Wave Motion in Thermo-Viscoelastic Plate by Using Asymptotic Method

Presented by S. K. Rana

50. Operation Approaches on  $(\alpha, \gamma, \beta)$ -Continuous Mappings and  $\alpha$ - $(\gamma, \beta)$ -Continuous Mappings

Presented By N.Kalaivani

**Special Sessions 8 and Plenary Lecture with tea** Starting from 4.30 pm

51. A Linear Programming Approach for Integrated Malaysian Energy Model (IMEM): Crude Oil and Natural Gas Subsystems

Presented by Maznah Banu Mohamed Habiboo Raman

52. Effect of initial stresses to incident qSV-wave in the pre-stressed elastic half-space

Presented By Sanasam Sarat Singh

53. EQUILIBRIUM MARKET SHARE MODEL OF MALAYSIAN NATIONAL CAR: A MARKOV CHAIN ANALYSIS

Presented By Zaini Mahbar

54. Existence Results for Impulsive Quasi-linear mixed Volterra-Fredholm-type Integro-differential Systems in Banach Spaces

Presented By V. Kavitha

55. ON THE FILTRATION OF A MODULE OVER NOETHERIAN LOCAL RING

Presented By PRITI SINGH

56. EVAPOTRANSPIRATION MODEL FOR IRRIGATION SCHEDULING

Presented By D.K. Chaturvedi

57. NUMERICAL SOLUTION TO HEAT TRANSFER OF MHD FLOW OF VISCO-ELASTIC FLUID OVER A STRETCHING SHEET SATURATED IN A

POROUS MEDIUM

Presented By Hymavathi T

58. Product Of Submodules In Multiplication Modules

Presented By Rezvan Varmazyar

59. INTERESTING INCOMPATIBILITIES IN FERMAT'S EQUATION

Presented by Enzo Bonacci

60. A SURVEY OF CLASSIFICATION OF HEURISTICS

Presented by ENGKU MUHAMMAD NAZRI BIN ENGKU ABU BAKAR

### **Plenary Lecture**

On "Robust computational methods to solve mathematical models of epidemiology" By  
Dr. Kailash C. Patidar, Department of Mathematics and Applied Mathematics,  
University of the Western Cape, South Africa