

20th International Mathematics Conference 2017
A biennial event of Bangladesh Mathematical Society

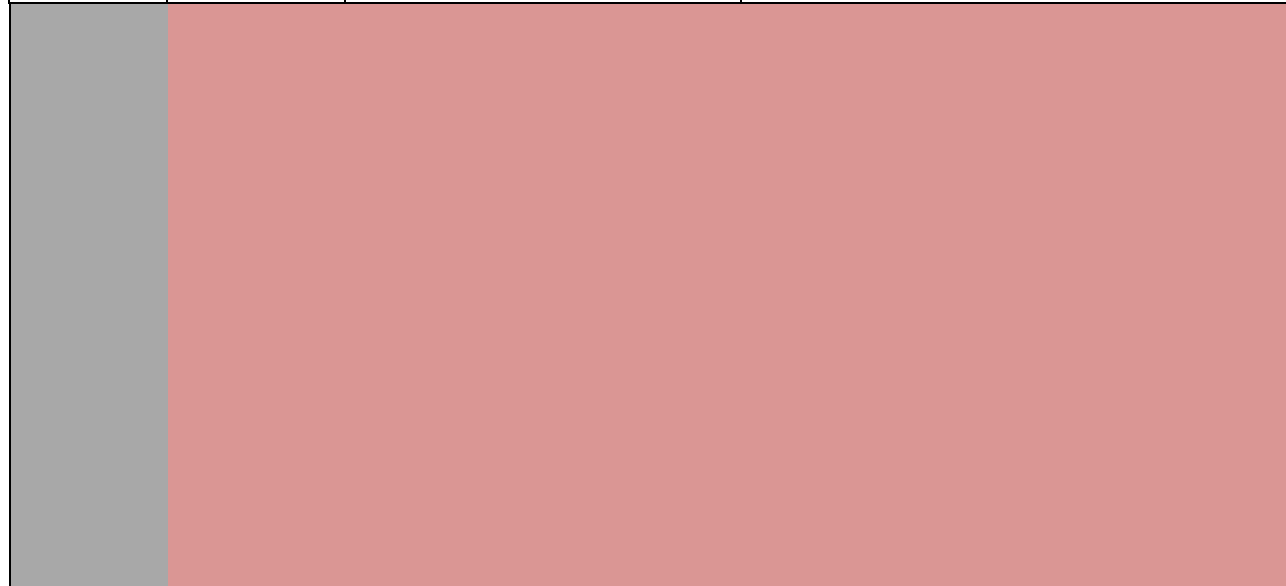
TENTATIVE PROGRAM DETAIL

Detailed Sessions

Program Schedule: Day 1 (08/12/2017)			
Session 2 Time: 11:00AM-12:30PM Session Chair: Professor Munibur Rahman Chowdhury Session Rapporteur: Dr Tania Sharmin Khaleque venue: Senate Bhaban			
Speaker ID		Speaker (First Author)	Title of the presentation
P0	Keynote speaker	Carlene P C Pilar Arceo	Mathematics: A Beautiful Bridge
P131	Invited speaker	Michel Waldschmidt	Some of the most famous open problems in number theory
P5	Invited speaker	M P Chaudhary	Generalization of character formulas
	Invited speaker	Kaito Miwa	The Power of Teachers–The power of Technology

Session 3 Time: 2:30 PM-4:00 PM
 Session Chair: Prof Carlene P C Pilar Arceo
 Session Rapporteur: Dr Tania Sharmin Khaleque
 venue: Senate Bhaban

Speaker ID		Speaker (First Author)	Title of the presentation
P135	Invited speaker	A. Ouazzi	Title Finite element method for nonlinear fluids with complex rheology
P1	contributory	Subhas Khajanchi	Mathematical modeling of brain tumor – immune surveillance with immunotherapeutic drug T11 target structure
P104	contributory	Koushik Ghosh	Investigation of Self Similar, Periodic, Nonlinear and Complex Phenomena in ECG Signal
P57	contributory	Shyamal Debnath	On Multiset Subgroup and Coset
P15	contributory	Uttam Ghosh	Stability and Bifurcation Analysis of a SIS Model with Logistic Growth Rate and Chaos-Control
P111	contributory	Harun-Or-Roshid	Lump Solutions to a (3+1)-Dimensional Potential-Yu-Toda-Sasa-Fukuyama (YTSE) Like Equation



Program Schedule: Day 2 (09/12/2017)

Session 4 Time: 9:00AM-11:00AM
 Session Chair: Prof Md Anwar Hossain
 Session Rapporteur: Dr Md. Motaleb Hossain
 venue: A F Mujibar Rahman Ganit Bhaban

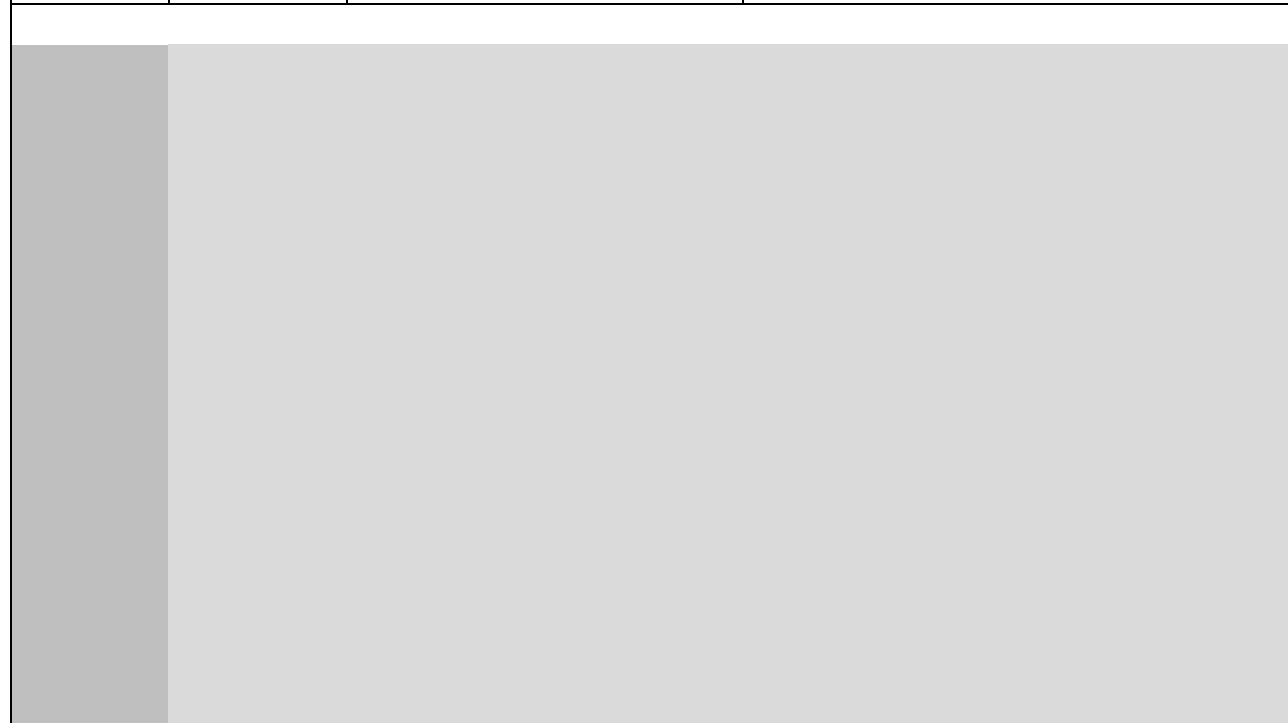
Speaker ID		Speaker (First Author)	Title of the presentation
P130	Invited speaker	Bidyut Baran Saha	Theoretical development on adsorption fundamentals and cycles for improved performance
P9	contributory	Nepal C Roy	Free convective combustible boundary-layer flow along inclined hot surfaces with streamwise surface temperature variations
P23	contributory	Sharaban Thohura	Numerical Simulation of non-Newtonian Fluid flows in a Lid-Driven Wavy Cavity
P2	contributory	Md. Jahidul Haque	Large-eddy Simulation in Lattice Boltzmann Method for Indoor Air flow using GPU Computing
P93	contributory	Raju Chowdhury	Effect of Lewis Number on Natural Convective Heat and Mass Transfer in a Porous Triangular Enclosure Filled with Nanofluid
P100	contributory	Ayesha Siddiqua	Effect of solid fluid thermal conductivity ratio on mixed convection flow of nanofluid within a driven cavity containing heat generating block
P114	contributory	Golam Mostafa	Numerical study on mixed convection in a lid-driven Benzene shape cavity with corner heater
P17	contributory	Muhammad Sajjad Hossain	Numerical simulation on MHD Mixed Convection Flow within a Triangular Enclosure

Session 5 Time: 9:00AM-11:00AM
Session Chair: Prof Md Ainul Islam
Session Rapporteur: Mr Rajib Arifin
venue: A F Mujibar Rahman Ganit Bhaban

Speaker ID		Speaker (First Author)	Title of the presentation
P140	Invited speaker	A R M Jamali Uddin Jamali	Comparison between Maximin LHDs Calculated Through ILS Approach Using Euclidean Distance Measure and SA Approach Using Manhattan Distance Measure
P59	contributory	Sohana Jahan	Class of Distance-Preserving Matrix Optimization Models in Data Mining
P70	contributory	Soumen Kumar Das	Solving fixed-charge transportation- p -facility location problem using an approximation approach
P73	contributory	Md. Mizanur Rahman	Algorithmic Approach to Minimize the Transportation Cost by Double Average Method
P38	contributory	Md . A. Malek PK	SOLUTION AND OPTIMIZATION OF FACILITY LAYOUT PROBLEM BY MIXED INTEGER PROGRAMING
P119	contributory	M. Sumon Hossain	Model Order Reduction of Semi Explicit Descriptor Systems of Index-1 Using Rational Krylov Subspace Method and Balanced Truncation
P71	contributory	Sudipta Midya	Solving bi-objective fractional fixed-charge transportation problem under fuzzy-rough environment
P92	contributory	Sohel Rana	Fuzzy Connectedness in Raja-Sethupathy and Lakshmivarahan's Sense

Session 6 Time: 11:30AM-1:00PM
Session Chair: Prof Dr Bidyut Saha
Session Rapporteur: Dr Kamrujjaman
venue: A F Mujibar Rahman Ganit Bhaban

Speaker ID		Speaker (First Author)	Title of the presentation
P49	contributory	Md. Tajul Islam	Convective Heat Transfer in Plane Microchannel Flow at Constant Wall Temperature
P60	contributory	Sharmina Hussain	Thermal and mass diffusion along a vertical flat plate with non uniform heat and mass flux
P25	contributory	Mohammad Abdur Rob	EFFECTS OF VARIOUS LOCATIONS OF A CYLINDER ON MHD NATURAL CONVECTION FLOW IN A SQUARE CAVITY
P27	contributory	M.S. Rahman	Heat-Mass Transfer of Nanofluid in Lid-driven Enclosure under Three Convective Mode
P29	contributory	Mustafa Sharif Khan	UNSTEADY CFD SIMULATION OF FLOW AROUND SUBMARINE SHAPED BODY
P58	contributory	Masudar Rahman	Wave Height and Wave Refraction in 2-D in the Surf Zone
P26	contributory	Nur Hossain	Application of several energy dissipation models for regular waves



Session 7 Time: 11:30AM-1:00PM Session Chair: Prof Partha P. Dey Session Rapporteur: Mr Sarker Md Shohel Rana venue: A F Mujibar Rahman Ganit Bhaban			
Speaker ID		Speaker (First Author)	Title of the presentation
P109	contributory	Md. Sahadet Hossain	Recursive Iterative Solutions of Periodic Lyapunov Equations Arising in Periodic Control Systems
P127	contributory	M. Monir Uddin	Model Order Reduction of Second-order Index-3 Descriptor Systems
P125	contributory	Md. Zakir Hosen	Several Chaotic Approaches of 1-D Doubling Map
P117	contributory	M. Osman Gani	Stability of wavetrains in a bistable excitable system
P133	contributory	Md Nazmul Hassan	Producer Grazer modeling under concurrent stoichiometric and toxicological constraints
P40	contributory	Farjana Bilkis	An investigation of the first phase evolution of a Jupiter like protoplanet formed via disc instability
	contributory	K M Ariful Kabir	Evolutionary game approach on Epidemiology Vaccination game

TIME 14:00PM- 15:30PM	POSTER SESSION with best three poster awards + tea
-----------------------------	---



Session 8 Time: 15:30 - 17:30 PM
 Session Chair: Michel Waldschmidt
 Session Rapporteur: Haridas K. Das
 venue: A F Mujibar Rahman Ganit Bhaban

Speaker ID		Speaker (First Author)	Title of the presentation
P69	Invited speaker	Munibur Rahman Chowdhury	Contributed Paper Apurba Chandra Datta and his amazing collection
P7	contributory	Dr. Md. Anowar Hossain	Mathematics Learning and Teaching: A Comparison of Group Learning with Conventional Teaching
P52A	contributory	A .R. M. Jalal Uddin Jamali	Comparison between maximin LHDs calculated through ILS Approach using Euclidean Distance Measure and SA Approach using Manhattan Distance
P126	contributory	Mallika Mitra	Anti-Hausdorff space
P56	contributory	Miuran Dencil	Weierstrass rho - function and related quadratic differentials
P61	contributory	Md. Jahurul Islam	Hausdorff Measure and Dimension of the Invariant Set for Iterated Function System of Fractals
P138	contributory	Sharmin Kabir	Bringing International Standard into Mathematics Textbook of Class IX-X in Bangladesh: A Focus on Cognitive Acceleration of Students

Session 9 Time: 15:30 - 17:30 PM
 Session Chair: Prof M P Chowdhury
 Session Rapporteur: Mr Haridas Kumar Das
 venue: A F Mujibar Rahman Ganit Bhaban

Speaker ID		Speaker (First Author)	Title of the presentation
P68	Invited talk	Sankar Kumar Roy	Recent Advances of Game Theory under Fuzzy Environmen
P96	contributory	M. Mohiuddin	Separation theorem for strong *-ideals of Stone JP-semilattices
P112	contributory	Kishor Pawar	ON PRIME GRAPH ? OF A RING
P99	contributory	Md. Zahangir Hossain	One-Error Correcting [5, 2] Ternary codes
P63	contributory	Mohammad Salah Uddin	Augmentation of poset matrices for sum and product of posets
P28	contributory	Bijoy Rahman Arif	An Inductive Proof of Bertrand's Postulate
P12	contributory	H. S. Chakraborty	α -Filters in Fuzzy Semilattices
P87	contributory	Saikh Shahjahan Miah	Fuzzy R_0 Topological Spaces in Quasi-coincidence Sense

Program Schedule: Day 3 (10/12/2017)

Session 10 Time: 9AM-11AM
 Session Chair: Prof L S Andellah
 Session Rapporteur: Hasib Uddin Molla
 venue: A F Mujibar Rahman Ganit Bhaban

Speaker ID		Speaker (First Author)	Title of the presentation
P137	contributory	Prof. Rafiq Islam	Biometric Iris Recognition Based on Dubechies Wavelet Transform
P45	contributory	Md Rafiul Islam	Dynamics of the Emerging Fungal Pathogen Batrachochytrium salamandrivorans on the Eastern Newt
P97	contributory	Sonia Akter	Modeling and Analysis the Monitoring of Glucose-Insulin Interaction of Diabetic Patients
P115	contributory	Shohel Ahmed	Optimal Control Based Treatment Strategies Applied to Environmentally Mediated Infectious Disease Transmission Model
P127	contributory	CT-28 M. Monir Uddin	Model Order Reduction of Second-order Index-3 Descriptor Systems
P125	contributory	Md. Zakir Hosen	Several Chaotic Approaches of 1-D Doubling Map
P123	contributory	Saiful Islam	Hopf bifurcation of the higher dimensional Hénon map
P106	contributory	Reshma Akter	Analysis of Chikungunya Epidemic Model with Numerical Simulation

Session 11 Time: 9AM-11AM
Session Chair: Prof Mohammed Aman Ullah
Session Rapporteur: Doli Rani Paul
venue: A F Mujibar Rahman Ganit Bhaban

Speaker ID		Speaker (First Author)	Title of the presentation
P76	Invited	M M Rahman	Stochastic approximations of Fredholm Volterra Integro-differential equation arising in mathematical neuroscience
P33	contributory	Khandaker Md. Eusha-Bin-Hafiz	A Numerical Study of Two Soliton Solution of the Korteweg-de Vries (KdV) Equation
p77	contributory	Humaira Farzana	The Bernstein Collocation method for Computing Eigenvalues for a Class of Differential Equations
p78	contributory	Anirudhya Roy	DIFFERENTIAL-TRANSEFORM-METHOD FOR SOLVING LOTKA-VOLTERRA EQUATIONS BY USING HOLLING TYPE III FUNCTIONAL RESPONSE
P6	contributory	Md. Nurul Anwar	A Study on Numerical Solution of Black-Scholes Model
P55	contributory	M. M. Rahaman , and Andallah	Numerical solution of advection diffusion reaction equation coupled with shallow water equation
P72	contributory	T M A K Azad	Numerical Solution of Convection-Diffusion Equation
P122	contributory	Md. Anowar Hossain	Numerical study for optimizing the performance of the flat plate Solar Collector for Variable Solar Radiation in Climatic Condition of Bangladesh



Session 12 Time: 11:30AM-13.00PM
Session Chair: Prof Sankar Kumar Roy
Session Rapporteur: Mr Mamun-Ru-Rahid Khan
venue: A F Mujibar Rahman Ganit Bhaban

Speaker ID		Speaker (First Author)	Title of the presentation
P50	Invited talk	Shipra Banik	Confidence Intervals based on Absolute Deviation for Population Mean of a Positively Skewed Distribution
P80	contributory	Hasina Akter	A Classification of [6,3,4] Linear codes over GF(4)
P91	contributory	Mst. Sharmin Banu	STORM SURGES IN THE NORTHERN TIP OF THE BAY OF BENGAL: THE SURGE AFFECTING FACTORS AND ITS PREDICTION
P8	contributory	Bimal Chandra Das	A Study of Matrix Transformation using Triple Sequence Spaces
P75	contributory	Major Mohammed Omar Faruque, AEC	Model for Transforming Existing Mouza Maps of Bangladesh Land Management System to User Friendly Single Sheet byUsing Modified Polar Co-ordinates and National Identity Cards
P121	contributory	Md. Belal Hossen	Characteristics of the solitary waves and rogue waves with interaction Phenomena in a (2+1)-dimensional Breaking Soliton equation
P108	contributory	M Nashir Uddin	Development of Method for Rapid Prediction of Chemical Component of Dhaincha Using FT-NIR SPECTroscopy and Chemometrics
P48	contributory	Md. Rakibul Hasan	Numerical Analysis of wind flow and heat transfer in a room with awning openings



Session 13 Time: 11:30AM-13.00PM
Session Chair: Professor Md Shafiqul Islam
Session Rapporteur: Md Assadujjaman
venue: A F Mujibar Rahman Ganit Bhaban

Speaker ID		Speaker (First Author)	Title of the presentation
P4	Invited talk	Mohammed Aman Ullah	Numerical Simulations of Shock-bubble Interaction: A Review Work
P41	Invited talk	Laek Sazzad Andallah	Efficiency and Accuracy of a Hexagonal Model Boltzmann Equation Discretized on Triangular Grid in R ²
P90	contributory	Rashed Saifuddin	Parameter estimation of SIR model and its robustness study with least square cost functional
P120	contributory	Souvik Bhattacharyya	Image Steganography using Combined Approach of Pixel Mapping Method and Pixel Value Differencing Method
P62	contributory	Rifat Ara Rouf	Study for the Optimum Uptake Capacity of Silica Gel used in a Solar Adsorption Chiller
P54	contributory	Muhammad Sajjad Hossain	Effect of Heated Triangular Block for Natural Convection within Trapezoidal Cavity with Non-Uniformly Heated Bottom Wall
P136	contributory	Sadia Siddiq	Influence of Variable Density on a Flow Near a Rotating Axi-Symmetric Round-Nosed Body with Radiation Heat Transfer

Session 14 Time: 14:00PM-15.30PM
Session Chair: Prof Md Abdur Samad
Session Rapporteur: Dr Motaleb Hossain
venue: A F Mujibar Rahman Ganit Bhaban

Speaker ID		Speaker (First Author)	Title of the presentation
P51	contributory	Md. Khalilur Rahman	Stability on Magnetohydrodynamic Nanofluid flow through expanding or contracting channel with permeable walls
P82	contributory	M. Saiful Islam Mallik	Performance of Differential Equation Wall Model and Algebraic Wall Model in Large Eddy Simulation
P89	contributory	Afroza Akter	Numerical Analysis of Heat Generation Effect on MHD natural convection flow in a L Shaped cavity
P94	contributory	Md. Alamgir Kabir	Reynolds number effects on Non-Newtonian Blood flow through regular arterial stenosis incorporating spiral component
P107	contributory	Sheikh Anwar Hosain	Analysis on MHD Natural Convection in Open Inclined Square Cavity with a Heated Circular Cylinder
P113	contributory	M. Jahirul Haque Munshi	Hydrodynamic Mixed Convection Nanofluid flow in a lid- driven porous square cavity including elliptic shape heated block with corner heater
P39	contributory	Md. Emran Ali	AN EFFICIENT APPROACH TO PREDICT WATER LEVELS DUE TO THE INTERACTION OF TIDE AND SURGE ASSOCIATED WITH A STORM ALONG THE COAST OF BANGLADESH

Session 15 Time: 14:00PM-15.00PM
Session Chair: Prof Md Rashed Talukdar
Session Rapporteur: Sarker Md Sohel Rana
venue: A F Mujibar Rahman Ganit Bhaban

Speaker ID		Speaker (First Author)	Title of the presentation
P53	contributory	M. Tahmina Akter	Solution of Quantum Mechanical Problem Using Variational Iteration Method and its Physical Behaviour
P116	contributory	Maksuda Akter Sawpna	Unsteady Fluid Flow and Heat Transfer through a Rotating Curved Duct with Differentially Heated Vertical sidewalls
P10	contributory	Sadia Masud	Effects of variable viscosity on natural convection of combustible gas mixture over an axisymmetric body
P86	contributory	Khondoker Nazmoon Nabi	Information Aggregation and Option Pricing: An Empirical Comparison of EWMA and Black and Scholes Models
P102	contributory	Md Sanjeed Hasan	Flow Instability with Convective Heat Transfer through a Curved Square Duct with Heating the Lower Wall and Cooling from the Ceiling
	contributory	Dr Osman's Student 1	
	contributory	Dr Osman's Student 2	
P18	contributory	Hazrat Ali	Generalized Galerkin Finite Element Formulation for the Numerical Solutions of Second Order Nonlinear Boundary Value Problems