

# SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

INTERNATIONAL CONFERENCE ON MATHEMATICAL SCIENCES  
(ICMS 2020)

## SESSION SCHEDULE

04/03/2020 (ORAL SESSION 1)

1	GT-102	$K_n(\lambda)$ is fully $\{P_4, S_4\}$ -decomposable <i>R. Chinnavedi, R. Sangeetha</i>
2	GT-103	Total Prime Graph <i>N.M. Lisha</i>
3	GT-108	Cover Pebbling Number of Comb, Friendship and Helm Graphs <i>R. Prabha, B. Sandhiya</i>
4	GT-111	Global Power domination of graphs <i>R.Prabha, B.Thenmozhi</i>
5	GT-115	Isometric Path Partition Problem on Tree Derived Architectures <i>R.Prabha, R.Kalaiyarasi</i>
6	GT-118	Edge D-Centro Dominating Sets in Graphs <i>P. Siva Ananthi, A. Anto Kinsley</i>
7	GT-119	Connected edge $r_m$ - distance monophonic number of a graph <i>M.Shanthi, A. Anto Kinsley</i>
8	GT-120	On The Center Smooth Sets and Center Smooth Numbers of Some Graph Classes <i>Anto Kinsley, Joan Princiya</i>
9	GT-121	An Algorithmic Approach for Encryption using Graph Labeling <i>P.Amudha, J.Jayapriya, J.Gowri</i>
10	GT-122	A Study On Harmonious coloring of Certain Classes of graphs <i>Nanthana Krishnan, Franklin TamilSelvi .M.S</i>
11	GT-127	Very Strongly Perfect Products of Graphs <i>G.R.GaneshGandal, R. Mary JeyaJothi</i>
12	GT-114	Defense Mechanism for the Vertices of a n-cube <i>Angel D, Saffren S</i>
13	GT-130	Arc domination in Digraphs <i>R.Anbunatha, R.Rajeswari</i>

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## SESSION SCHEDULE

04/03/2020 (ORAL SESSION 2)

1	MS - 120	Fourier type transforms and their convolutions on $R^n$ <i>Mr. A. M. Mahajan, Dr. M.S. Chaudhary</i>
2	MS-104	Stability of g-frames <i>Dr. K. N. Rajeswari, Neelam George</i>
3	MS-106	Modelling and Reliability Analysis of Power Cables Used as a Two Unit Hot Standby System with Preference of Repair over Replacement in the Metro Railways <i>RanuPandey, BhupenderParashar, Vinita Khemchandani, PrashantPandey, NitinBhardwaj</i>
4	MS-113	A non-autonomous dynamical system of <i>Tenualosailisha</i> (Indian Shad or Hilsa) with 3-Dimensional-shaped pack-formation and delay in reproduction and harvest <i>N. S. N. V. K. Vyshnavi Devi, Debaldev Jana</i>
5	MS-117	Codes in Rosenbloom-Tsfasman Metric: A Survey <i>VenkatrajamMarka, BodigiriSaiGopinadh</i>
6	MS-121	Predicting Physico-Chemical Characteristics of Brain Tumour <i>Ms.M.S.Roobini, T.AishwaryaSailaja, T.V.L.Bharathi</i>
7	MS-122	Cryptography using Multiple – Chaos <i>Raja Kumar R, Pandian R, Indumathi.P</i>
8	MS-123	A study on the financial risk profile of investors in Chennai <i>Samuel E Chakkaravarthy, GoutamTanty, E.Priyadarshini</i>
9	MS-125	Theoretical Investigation on SmN for Spintronics - A DFT Study <i>M.Muthumari<sup>2</sup>, M.Manjula, K.Pradeepa</i>
10	MS-126	Ab-initio Investigations of Electronic, Optical, Mechanical and Thermal Properties of $CaTe_{0.5}Se_{0.5}$ <i>M. Manjula, M. Sundareswari, P. Malliga, M. Muthumari, V. Shobana</i>

<b>11</b>	MS-127	Synthesis, growth and characterization of NLO single crystals for Remote Sensing applications <i>P. Malliga, M. Manjula, M. Muthumari, V. Dharsan, V. Deepika</i>
<b>12</b>	MS-130	Cryptography using Chaos in Communication Systems <i>Dr.R.Raja Kumar, Dr.R.Pandian, Dr.N.Nirmala,Dr.P.Indumathi</i>

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## SESSION SCHEDULE

05/03/2020 (ORAL SESSION 3)

1	AL-101	The Properties of Semi-Simple Splicing System Over Alternating Group, $A_3$ <i>MathuriSelvarajoo, Nor LiyanaSyamimi, Fong Wan Heng, Nor HanizaSarmin and SherzodTuraev</i>
2	AL-102	Second Hankel Determinant For Tilted Bi-Starlike Functions Of Order B <i>Shaharuddin Cik Soh, Zammariyah Mustafa Kamal, Mohamad Huzaiifah Mohd Dzubaidi, Noor Latiffah Adam</i>
3	AL-116	Cosine Based Approach for Offline Handwritten Character and Numeral Recognition <i>AbhisekSethy, Prashanta Kumar Patra</i>
4	AL-111	A Survey on Codes with certain poset metrics <i>VenkatrajamMarka, RohiniBaliram More</i>
5	AL-113	Approximation of Fourier and its Conjugate Series by Triple Euler Product Summability <i>SmitaSonker, ParamjeetSangwan</i>
6	AL-114	Certain Classes Of Bi-Univalent Functions Associated With Fibonacci Numbers <i>N. Magesh, V. K. Balaji, Abirami</i>
7	AL-110	A Study Of Symmetries & Reductions Of A (1+1) Dimensional Sir Model <i>Dr. K. Krishnakumar, C. DivyaRaffi</i>
8	AL 117	Triangular and Skew-Symmetric Splitting Method for the Solution of Regularized Linear System-Toeplitz Stochastic Matrices <i>RajaiahDasari, Malla Reddy Perati, Ramana Murthy M.V., S.Hari Singh Naik</i>
9	AL-117	A Study Of Symmetries And Eductions Of A (2+1) Dimensional Sir Model <i>Dr.K.Krishnakumar, k.Gayathri</i>
10	AL-108	A Study of Cesàro-Riesz Product Summability $\varphi -  C_1R; \delta _k$ Factor for an Infinite Series <i>SmitaSonker, Neha</i>

<b>11</b>	MS-140	Numerical Modeling for Effectiveness of Artificial Recharge using Groundwater <i>Marykutty Abraham, Riya Ann Mathew Jayapriya.J</i>
<b>12</b>	MS-145	Numerical Approach in Friction Stir Welding <i>J.Jayapriya,D.Muruganandam,S.Suraj</i>
<b>13</b>	MS-142	An Ab-initio Study on the Mechanical Behaviour of Nonmagnetic Cubic Spinel $\text{CuMn}_2\text{Te}_4$ <i>S.Priyadharshini, M.Sundareswari, D.S.Jayalakshmi,M.Manjula, E.Viswanathan</i>

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**SESSION SCHEDULE**  
**0503/2020 (ORAL SESSION 4 )**

<b>1</b>	GT-136	Integer Cordial and Face Integer Cordial Labeling of Some Flower Graphs <i>R. Parameswari, K. SaradhaPritha, R. Rajeswari</i>
<b>2</b>	GT-133	Expander Graphs – A Study <i>Angel D</i>
<b>3</b>	GT-134	Comparison of Parallel contextual array insertion and deletion grammars with a context free class of array grammars <i>T.Kamaraj, D.G.Thomas</i>
<b>4</b>	GT-116	Edge even graceful labeling of Paley graphs <i>T.Kamaraj, J.Thangakani</i>
<b>5</b>	GT-138	Edge product Cordial Labeling of Vertex transitive and arc transitive non-Cayley digraph. <i>R.Rajeswari, C. Alice Jenifer, K. Ezhilarasi, T. Manjula</i>
<b>6</b>	GT-139	Dominator Coloring of Hajós graph and Trampoline <i>T.Manjula , R.Rajeswari</i>
<b>7</b>	GT-125	A Study On Distance k-Domination In Digraphs <i>V. Annie VethaJoeshi, A. Anto Kinsley</i>
<b>8</b>	GT-113	Triangular and Octagonal Array Grammars <i>S. Kuberal, K. Bhuvaneswari</i>
<b>9</b>	GT-140	On Min-Max Edge Antimagic Labeling of Certain Type of Shell Graphs <i>J.Jayapriya</i>
<b>10</b>	GT-170	MMD Labeling of Complete Tripartite Graph $K_{1,M,N}$ <i>R, Karunya , R, Revathi</i>
<b>11</b>	GT-126	A study on slope number of Jahangir graph <i>A. Antony mary, A. Amutha</i>
<b>12</b>	GT-145	SSP-Structure of Closed Helm, Flower and Flower Snark Graph Families <i>R. Mary JeyaJothi, R. Sanjana, V. MohanaPriya</i>
<b>13</b>	GT-150	A Comparative Study On Harmonious Coloring and Labelling Problems <i>Franklin TamilSelvi .M.S , A. Amutha</i>
<b>14</b>	GT-131	Arc domination in Cayley Digraphs <i>R.Rajeswari, R.Anbunathan</i>
<b>15</b>	GT- 112	Context-Sensitive String-Token Petri Nets <i>D. K. Shirley Gloria, S. Devi, K.Nirmala</i>

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## SESSION SCHEDULE

05/03/2020 (ORAL SESSION 5 )

1	FD -110	Three Dimensional Magneto-Nanofluids Saturated in Non Darcian Porous Medium with Suction- Dual Solutions <i>Poulomi De</i>
2	FD -103	Image Denoising using Modified Diffusion Function on Nonlinear Second Order Hyperbolic Mod <i>NorafifiNajwaWira, SuhailaAbdHalim</i>
3	FD -104	Convective Instabilities in a Variable-viscosity Fluid Layer with Nondeformable Surface and Insoluble Surfactant <i>SeripahAwangKechil, RazihanAllias</i>
4	FD -105	Stagnation Point Flow In Copper Nanofluid Over A Slippery Cylinder With Viscous Dissipation <i>NurMizaSyaheraGhazali, Ahmad SukriAbd Aziz, SitiKhuzaimahSoid, MohdRijalIlias, ZailehaMd Ali</i>
5	FD -102	Critical Flow Over An Uneven Bottom Topography Using Forced Korteweg-De Vries (Fkdv) <i>Vincent Daniel David, ArifahBahar and Zainal Abdul Aziz</i>
6	FD -117	Rough Hesitant Bipolar Neutrosophic Sets And Their Application In Decision Making <i>E.R MeenaKumari, M.Thirucheran</i>
7	FD-109	Two Phase Flow Of Stratified Incompressible Viscous Fluid Between Two Semi-Infinite Parallel Plates Partially Filled With Highly Porous Medium Under Transverse Magnetic Field Applied Only In The Clear Region <i>K.Venumadhav</i>
8	FD -108	Non Darcian Approach To Flow of Stratified Incompressible Viscous Fluid Between Two Semi-Infinite Parallel Plates Partially Filled With Highly Porous Medium Under Transverse Magnetic Field Applied only in The Porous Region <i>Dr. Shiva Shanker K.</i>
9	FD -125	Analysis of Mhd Free Convective Flow Past A Vertical Porous Plate and A Heat Source Through Porous Medium Under Oscillatory Suction. <i>M.Vidhya, S.Sheeba Juliet, A.Govindarajan, E.Priyadarshini</i>

<b>10</b>	FD -126	Heat And Mass Transfer Effect Between Vertical Plates Through Porous Medium And Chemical Reaction Effect On Free Convective Mhd Flow. <i>M. Vidhya, N.Niranjana, A.Govindarajan,E.Priyadarshini</i>
<b>11</b>	FD-104	Steady Marangoni instabilities in variable-viscosity liquid layerin the presence of insoluble surfactant <b>Seripah Awang Kechil, Razihan Allias</b>
<b>12</b>	FD-114	Stratification and MHD effects on narrow channel problem <i>PrasannaVenkatesh.L,Swetha. J</i>
<b>13</b>	FD-120	Effect Of Mass Transfer And Radiation With Heat Source On Mhd Oscillatory Viscoelastic Fluid In A Channel Filled With Porous Medium <i>M.Vidhya, V.Sivaranjani, R.Radhika.</i>



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## SESSION SCHEDULE

05/03/2020 (ORAL SESSION 6)

1	CS -111	Crime Rate Prediction and Analysis using Hybrid Algorithm in Data Mining <i>A.NazreenFathima, L.Meeraa,P.ShanmugaPriya,V.Jackins</i>
2	CS-102	Segmentation and Features Extraction of Malaysian Herb Leaves <i>SuhailaAbdHalim, Normi Abdul Hadi</i>
3	CS -113	Stock market share prediction using Levenberg Marquardt training algorithm using Data Analytics <i>Annie SimonaSuji, P. Sivanika, M.ThangaRamya, V.Jackins</i>
4	CS -112	Secure and Efficient authentication system for Healthcare Data by using cancelable Finger vein Bio-cryptosystem <i>M.Malathi, P.Maneesha, R.Sowmya, N.Gowthami</i>
5	CS -119	Serverless Computing using AWS Services <i>SelvasuryaSampathkumar, ShaikKhadarBasha, M.S.Roobini</i>
6	CS -130	Diagnosis and Classification of Leaf Diseases using CNN <i>BonthuNaveena,BommarajuVarshitha</i>
7	CS -127	Paddy Leaf Disease Analysis with Hybrid Algorithms used Deep Learning Technique <i>TalluriPramodSai, Thatavarthi Sri Krishna Kamal, M.S. Roobini</i>
8	CS -125	Performance Analysis of various cryptography algorithm in Network Security <i>C.Lakshmi,Dr.P.JesuJayarin</i>
9	CS -118	Classification of Skin Lesions using Deep Learning: A Review <i>S.P. GodlinJasil , V.Ulagamuthalvi</i>
10	CS -133	Machine learning techniques for Prediction–Qualitative data analysis <i>E.Elakkiya, G. MokeshRayalu</i>
11	CS -140	E-Voting System using Homomorphic Encryption Technique <i>T. Venkata Surya, T. SaiCharan,A.C. SanthaSheela</i>
12	CS -141	Comprehensive and Personalized Service Solutions using Smart Elderly Care <i>Thota Praveen kumar, ThumulaManishankar , Mrs.A.C.Santhasheela</i>

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## SESSION SCHEDULE

05/03/2020 (ORAL SESSION 7 )

1	FZ 103	An Application of Interval Valued Fuzzy Matrix in Waste Incineration <i>Sumarni Abu Bakar Solehah Normaly Kamal</i>
2	FZ-102	Trapezoidal Fuzzy Number Conjoint Method to Measure Students' Expectation on The Learning of Mathematics <i>Roselah Osman Nazirahramli Hamidahayub Zuraidarbadaruddin Syarifahnurainina Said Abdul Karim</i>
3	FZ-111	Decomposition of Fuzzy Zero Divisor Graph <i>A. Kuppan J. Ravi Sankar</i>
6	FZ-107	Classical and fixed point approach to the stability of generalized cubic functional equation in fuzzy normed spaces <i>P. Agilan, V. Vallinayagam</i>
7	FZ-119	Fuzzy Soft Regularly nowhere dense sets <i>E. Poongothai, S. Divyapriya</i>
8	FZ-105	A Novel Way of Detecting and Correcting Transmitted Errors using Fuzzy Logic <i>A. Neeraja, Dr. B. Amudhambigai</i>
9	FZ-104	Fuzzy path homotopy in fuzzy peano space <i>K. Sugapriya, Dr. B. Amudhambigai</i>
10	FZ-118	Selection of customer's order preference by fuzzy interval valued edas method <i>B.K. Jaleesha, Dr. S. Shenbaga Ezhil</i>
11	FZ121	Design and analysis of hybrid composite using fuzzy Approach <i>C. kavitha, M. Nirmala, T.S. Frank gladson, M. Mallika</i>
12	FZ-120	Fuzzy Decision Making Using Fuzzy Soft Set And Inverse Fuzzy Soft Set <i>Christina Prabakaran, Dr. C. Kavitha</i>
13	FZ-101	Integration of sorensen and cosine similarity measure for solving fuzzy decision making problem <i>Daud Mohamad, Nurmaizatun Nabilah Suboh</i>
14	FZ-108	Socratic Technique To Solve The Bulk Hexadecagonal Fuzzy Transportation Problem Using Ranking Method <i>Nandhini K, G Charles Rabinson</i>
15	FZ-112	Some Bounds for Fuzzy Zagreb Energies <i>Mahesh Kale, Minirani S</i>

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## SESSION SCHEDULE

06/03/2020 (ORAL SESSION 8 )

1	CS-150	Predicting and Classifying the Levels of Autism Spectrum Disorder <i>M SreeValindha ,M Satyadivya, Mercy Paul Selvan</i>
2	CS -151	Application of Artificial Intelligence In The Field of Medicine For Diagnosis <i>M Sravya, M Navya, Mercy Paulselvan</i>
3	CS -123	Bone Fracture Detection using Segmentation <i>N. SatyaSriveni, K. HemaLatha, Dr. A.VijiAmutha Mary</i>
4	CS -156	Forecasting Annual Rainfall in Chennai using ANFIS <i>M. Nirmala, C. Kavitha</i>
5	CS -157	Research on Cosine Similarity and Pearson Correlation Based Recommendation Models <i>SujaCherukullapurathMana,T.Sasipraba</i>
6	CS -148	An Efficient hybrid machine learning classifier for Rainfall Prediction <i>Dr.P.Asha, K.VenkataSaiSandeep, K.HarshaVardhan</i>
7	CS -120	Prediction of association among factors in a disease using machine learning <i>Ms. Vaishali.V,Ms. Sangeetha.T, Mrs.Roobini</i>
8	CS -154	Car Accident Detection And Notification System Using Smartphone <i>SoujanyaMulakalappally, NavyasriMungamuri, M.S.Roobini</i>

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## SESSION SCHEDULE

06/03/2020 (ORAL SESSION 9 )

1	ST-137	Analysis Of Heart Disease Using Multiple Linear Regression Technique <i>E.Priyadarshini, G.RajGayathri, M. Vidhya</i>
2	ST-104	Role of Statistical Models and Data Science on health insurance industry in India <i>Dr. G Y Mythil</i>
3	ST-103	Effective Revelation Of Crime Forecasting Using Hybrid Model In Big Data Analytics <i>S.Kowsalya, R.Adithya, A.Dhanalakshmi, G.Pandiyarajan, S.Chidambaram,</i>
4	ST-107	Remote Sensing-Based Land Usage And Land Coverage Change Prediction Using Hybrid Models. <i>N.Janani, M.Priyanka, S.SharmilaPriya, V.Anitha</i>
5	ST-115	Analysis of onion prices at wholesale level in India-an application of Rescaled Range Analysis <i>E.Priyadarshini, K.Jayalakshmi, M.Shalin</i>
6	ST-116	An Analysis on Tile Pasting as Markov Chain using Trellis Diagram <i>F. Anitha Florence Vinola, G. Padma</i>

7	OR-106	Interconnected M/M/n/ $\infty$ Queueing Inventory system with M/M/m/N Queueing system For Additional Service <i>KathirvelJeganathan, T Harikrishna</i>
8	OR-107	Transient Analysis of Asynchronous Router with Self-Similar Input Traffic –MMPP/M/1/K Queueing System <i>AbhilashVollala, Prof. Malla Reddy Perati</i>
9	OR-103	Self-Similar Network Traffic using CMMPP/D/1/K Queueing System - IDC Based Fitting and its Bounds <i>Ramesh Renikunta, RajaiahDasari, Malla Reddy Perat</i>
10	OR-102	Application of Generalized Single Valued Triangular Neutrosophic Numbers to Solve Assignment Problem <i>R.M.Umamageswariand G.Uthra</i>

11	OR-108	An Eoq Model For Deteriorating Products With Backorder And Fixed Transportation Cost <i>Kaviya D, DrMuniappan P</i>
12	OR-109	Implementation of an optimization model for allocating the upcoming trains to the platforms <i>Keerthi.S,Dr.S.Maheswari,Dr.M.Nirmala</i>
13	OR-112	Computational Fluid Dynamic Analysis Of Flow Around Mangrove Roots <i>SiniRahuman,A.Mohamed Ismail,ShylaManavalan Varghese,</i>
14	OR-111	An optimum production inventory model for deteriorating product with price breaks <i>C.K.Kirubhashankar, P.Muniappan,A.Mohamed Ismail</i>