

# ICMRS 2023 PROGRAMME

## FIRST DAY 20 November 2023

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| 20.11.2023<br>MONDAY |   |   |
| 09.00-09.15          | <b>OPENING CEREMONY</b>   |   |
| 09.15-09.30          | Chair: Prof. Dr. Kashif Ali ABRO  | The Consistency and Efficiency of Regularization Methods for Factor Loading Estimation in Structural Equation Modeling<br><b>Nurul Raudhah ZULKIFLI</b> |
| 09.30-09.45          |   | Repel Effects of Heat Transference from Brinkman Fluid under Ferromagnet via Non-Singularized Differentials<br><b>Ms. Ambreen SIYAL</b>                 |
| 09.45-10.00          |   | Smoothing Chance constrained mixed integer nonlinear optimization problem<br><b>Agegehu TESFAYE</b>   |
| 10.00-10.15          |   | Quantitative Prediction of Effective Porous for Optimal Thermal Analysis Based on Fractional Analytical Model<br><b>Kashif Ali ABRO</b>                 |
| 10.20-11.00          | <b>Keynote Speaker: Prof. Dr. Miodrag SPALEVIC</b><br><b>"Numerical Computation of Generalized Averaged Gaussian and Anti-Gauss Quadrature Rules"</b><br><b>(Chair: Prof. Dr. Ahmet Ocak AKDEMİR)</b> |   |
| 11.15-11.30          | Chair: Prof. Dr. Mustafa Ali DOKUYUCU   | On the Other Forms of Near Perfect Number<br><b>Eman C. AHMAD</b>   |
| 11.30-11.45          |   | Stable Locating-Dominating Sets in Graphs<br><b>Eman C. AHMAD</b>   |
| 11.45-12.00          |   | Mathematical models for evaluation of students performance<br><b>Miloš VUCIC</b>  |
| 12.00-12.15          |   | Anisotropic elliptic problems involve two types of terms: a lower-order term and a Hardy potential<br><b>Riyadh NESRAOUI</b>                            |
| <b>BREAK</b>         |   |   |
| 13.00-13.15          | Chair: Prof. Dr. Mehmet Zeki SARIKAYA   | Application of general transform to Atangana-Baleanu fractional operators<br><b>Meryem MEDDAHI</b>  |
| 13.15-13.30          |   | Finite Element Method (FEM) for a Class of Nonlocal Elliptic and Parabolic Equations<br><b>Tahar BELHADI</b>  |
| 13.30-13.45          |   | Investigating the Dynamics of Fractional-Order Chaotic System and Its Application on Image Encryption<br><b>Hasna YOUSFI</b>                            |
| 13.45-14.00          |   | Isogeometric approximation of Newtonian incompressible fluid flow in a square medium<br><b>Ouadie KOUBAITI</b>  |
| <b>BREAK</b>         |   |   |
| 14.00-14.15          | Chair: Prof. Dr. Miodrag SPALEVIC   | Internality of averaged Gaussian quadrature rules<br><b>Rada Mutavdžić ĐJUKIC</b>   |
| 14.15-14.30          |   | On orthogonal and related polynomials with respect to the Abel weight<br><b>Dusan DJUKIC</b>  |
| 14.30-14.45          |   | Error estimates of Gauss-type quadrature rules for variable-sign weight functions<br><b>Jelena TOMANOVIC</b>  |
| 14.45-15.00          |   | Error estimates for Gaussian quadrature of analytic functions<br><b>Davorka JANDRLIC</b>  |
| <b>BREAK</b>         |   |   |
| 15.00-15.15          | Chair: Prof. Dr. Hanlar REŞİDOĞLU   | Uniqueness of the Solution of the Inverse Scattering Problem for a Discontinuity Sturm-Liouville Problem<br><b>Shabnur R. ALIZADEH</b>                  |
| 15.15-15.30          |   | On Recovering Nonselfadjoint Sturm-Liouville Operators on the Half-Line from the Scattering Data<br><b>Ramin G. FARZULLAZADEH</b>                       |
| 15.30-15.45          |   | On the Simulation of Shallow Water Confluences<br><b>Nuray ÖKTEM</b>  |
| 15.45-16.00          |   | On a differential game with players moving under undamped oscillations<br><b>Ulmasjon SOYIBBOEV</b>   |
| <b>BREAK</b>         |   |   |
| 16.00-16.15          | Chair: Prof. Dr. Canan ÇİFTÇİ   | New Estimations for P-Functions with the Help of Caputo-Fabrizio Fractional Integral Operators<br><b>Sinan ASLAN</b>                                    |
| 16.15-16.30          |   | Some Novel Integral Inequalities on the Co-ordinates for Log-Exponentially Convex Functions<br><b>Sinan ASLAN</b>                                       |
| 16.30-16.45          |   | Hadamard-Type Inequalities for m-Geometrically Convex Functions via Riemann-Liouville Integrals<br><b>Harun Emre SEYHAN</b>                             |
| 16.45-17.00          |   | Fault-tolerant Locating-Dominating Sets in Graphs<br><b>Eman C. AHMAD</b>   |

## SECOND DAY 21 November 2023

|                       |   |  |
|-----------------------|---|--|
| 21.11.2023<br>TUESDAY |   |  |
| 09.00-09.15           | Chair: Prof. Dr. Jehad<br>ALJARADEN         | Tutte Polynomials for Interval Graphs<br><b>Abdulgani ŞAHİN</b>  |
| 09.15-09.30           |   | Absolute Monotonicity Properties of the Generalized Elliptic Integral of the First Kind<br><b>Fei WANG</b>   |
| 09.30-09.45           |   | Strongly Nonlinear Coupled System in Orlicz-Sobolev Spaces without $\Delta_2$ -condition<br><b>Rabab ALARABI</b>   |
| 09.45-10.00           |   | The local linear estimation of the conditional distribution function for functional data<br><b>Bouanani OUSSAMA</b>  |
|                       |   | BREAK  |
| 10.15-10.30           | Chair: Prof. Dr.<br>Mehmet Zeki<br>SARIKAYA | On some inequalities for geometrically convex functions via Hadamard fractional integrals<br><b>Mehmet Zeki SARIKAYA</b>   |
| 10.30-10.45           |   | Novel Simpson Type Inequalities for Fractional Integrals with Respect to Another Function<br><b>Hüseyin BUDAK</b>  |
| 10.45-11.00           |   | On New Improvements of Hermite-Hadamard Inclusions through Interval-Valued Convex Functions<br><b>Hasan KARA</b>   |
| 11.00-11.15           |   | New Milne Type Inequalities in the Context of the Proportional Caputo-Hybrid Operator<br><b>Tuba TUNÇ</b>  |
|                       |   | BREAK  |
| 11.20-12.00           |   | <b>Keynote Speaker: Prof. Dr. Zakia HAMMOUCH</b><br><b>"The Impact of Vaccination on the Epidemiological Model of Meningitis with Diffuse Transmission"</b><br><b>(Chair: Prof. Dr. Ahmet Ocak AKDEMİR)</b>              |
|                       |   | BREAK  |
| 14.00-14.40           |   | <b>Keynote Speaker: Prof. Dr. Ali SHOKRI</b><br><b>"Non-Standard Finite Difference Method to Solve the Mathematical Model of Hepatitis B Epidemic Disease"</b><br><b>(Chair: Prof. Dr. Alper EKİNCİ)</b>                 |
| 15.00-15.15           | Chair: Prof. Dr.<br>Süleyman ŞENYURT        | From a general representation of spherical indicatrices to Sabban frame for helix curve<br><b>Süleyman ŞENYURT</b>   |
| 15.15-15.30           |   | Some Results on Radical Anti-Invariant Lightlike Hypersurfaces of Locally Product-like Manifolds<br><b>Esra ERKAN</b>  |
| 15.30-15.45           |   | On the biquadratic Bezier surfaces as paraboloids and parabolic cylinder<br><b>Şeyda KILIÇOĞLU</b>   |
| 15.45-16.00           |   | On the tangent and arctangent curves by modelling on the cubic, 5th, and 7th order Bézier curve in $E^2$<br><b>Şeyda KILIÇOĞLU</b>   |
|                       |   | BREAK  |
| 16.10-16.50           |   | <b>Keynote Speaker: Prof. Dr. Luca GRILLI</b><br><b>"On the efficacy of 'herd behavior' in the commodities market. A neuro-fuzzy agent 'herding' on deep learning traders"</b><br><b>(Chair: Prof. Süleyman ŞENYURT)</b> |
| 17.00-17.15           | Chair: Dr. Sinan ASLAN                      | On Some Integral Inequalities for s-logarithmically Convex Functions and Their Applications<br><b>Zuhal BAYRAM</b>   |
| 17.15-17.30           |   | The New Integral Inequalities for Geometrically Convex Functions via Conformable Fractional Integrals<br><b>Metin ERGÜL</b>  |
| 17.30-17.45           |   | Some New Inequalities for $(h - s)_{1,2}$ -Convex Functions via Further Properties<br><b>Ali ŞİMŞEK</b>  |
| 17.45-18.00           |   | Inequalities Involving Conformable Approach for Exponentially Convex Functions and Their Applications<br><b>Gözde DURAN</b>  |
|                       |   | A Note on Error Bounds of Gaussian Quadrature Formulae with Legendre Weight Function for Analytic Integrands<br><b>Alexandrev Pejcev</b>   |

## THIRD DAY 22 November, 2023

|                                 |   |   |
|---------------------------------|---|---|
| <b>22.11.2023<br/>WEDNESDAY</b> |   |   |
| 09.00-09.15                     | <b>Chair: Prof. Dr. Fulya YÖRÜK DEREN</b> | Reliability Assessment of Folded Divide-and-Swap Cube in terms of Structure and Substructure Connectivity<br><b>Muhammed TÜRKMEN</b>  |
| 09.15-09.30                     |   | Frequency Analysis of Moderately Thick Composite Panels with Negative Gaussian Curvature<br><b>İlke ALGÜL</b>   |
| 09.30-09.45                     |   | Riemann-Liouville Fractional Differential Equations with Three Point Boundary Conditions<br><b>Fulya YÖRÜK DEREN</b>  |
| 09.45-10.00                     |   | Star-Structure Connectivity and Star-Substructure Connectivity of Generalized and Double Generalized Petersen Graphs<br><b>Canan ÇİFTÇİ</b>   |
|                                 |   | <b>BREAK</b>  |
| 10.15-10.30                     | <b>Chair: Prof. Dr. Zakiya HAMMOUCH</b>   | Compactness of Sum of Generalized Weighted Composition Operators between Weighted Spaces of Analytic Functions<br><b>Jasbir S. MANHAS</b>   |
| 10.30-10.45                     |   | Analyzing Stochastic Dynamics in Dispersed Polluted Environments: A Study of the Gilpin-Ayala Model<br><b>Abdeladim Nait BRAHIM</b>   |
| 10.45-11.00                     |   | Dynamic Analysis of a Stochastic SIR Epidemic Model Incorporating Non-linear Power Functions and Logistic Growth<br><b>Soulaimane AZNAGUE</b>   |
| 11.00-11.15                     |   | Decay of a porous thermoelastic system of type III with distributed delay<br><b>Zineb NID</b>   |
|                                 |   | <b>BREAK</b>  |
| 11.20-12.00                     |   | <b>Keynote Speaker: Prof. Dr. Jehad Al JARADEN</b><br><b>"The influence of c-subnormality of subgroups on the structure of finite groups"</b><br><b>(Chair: Prof. Dr. Ahmet Ocak AKDEMİR)</b>             |
| 13.00-13.15                     | <b>Chair: Prof. Dr. Şeyda KILIÇOĞLU</b>   | Analysis mathematical of an anomalous reaction diffusion system<br><b>Maroua MEBARKI</b>  |
| 13.15-13.30                     |   | Elliptic systems without divergence constraint<br><b>Saliha BOUKASSA</b>  |
| 13.30-13.45                     |   | Some applications on the Darboux Vector of Viviani's Curve<br><b>Süleyman ŞENYURT</b>   |
| 13.45-14.00                     |   | On a Necessary Condition for an Optimal Control Problem in a Parabolic System<br><b>Yeşim AKBULUT</b>   |
|                                 |   | <b>BREAK</b>  |
| 14.00-14.15                     | <b>Chair: Prof. Dr. Abdullah ÇAĞMAN</b>   | Gröbner bases and applications of Toric ideals<br><b>Merve EKER</b>   |
| 14.15-14.30                     |   | Some cryptographic applications of hash functions<br><b>Ömer Faruk ÇETİN</b>  |
| 14.30-14.45                     |   | Summary Functions and Key Agreement Protocols<br><b>Merve Beyza ÇUBUK</b>   |
| 14.45-15.00                     |   | Some Analysis for the Maximal $C_{\infty}$ Class of Classical Groups with Dimensions 6 and 8<br><b>Zehra ÇELİK ÇÖP</b>  |
|                                 |   | <b>BREAK</b>  |
| 15.15-15.30                     | <b>Chair: Prof. Dr. Ertan SET</b>         | Milne-type Inequalities for Various Function Classes<br><b>Fatih HEZENCI</b>  |
| 15.30-15.45                     |   | Generalizations of different type inequalities for $\eta$ -convex function<br><b>Barış ÇELİK</b>  |
| 15.45-16.00                     |   | Some integral inequalities for different classes of functions via Atangana-Baleanu fractional integral operators<br><b>Ali KARAOĞLAN</b>  |
| 16.00-16.15                     |   | Ostrowski and Hermite-Hadamard Type Inequalities Involving Quantum Symmetric Integrals<br><b>Ammara NOSHEEN</b>   |
|                                 |   | <b>BREAK</b>  |
| 16.15-16.30                     | <b>Chair: Prof. Dr. Hüseyin BUDAK</b>     | $W_s$ Irresolute Mappings in topological spaces<br><b>Raja Mohammad LATIF</b>   |
| 16.30-16.45                     |   | $Z_s$ -Compact topological spaces<br><b>Raja Mohammad LATIF</b>   |
| 16.45-17.00                     |   | Almost $g_0$ topological vector spaces<br><b>Raja Mohammad LATIF</b>  |
|                                 |   | <b>BREAK</b>  |
| 17.10-17.50                     |   | <b>Keynote Speaker: Prof. Dr. Leo REBHOLZ</b><br><b>"Anderson acceleration and how it speeds up convergence in fixed point iterations"</b><br><b>(Chair: Prof. Dr. Mehmet Zeki SARIKAYA)</b>              |
| 17.50                           |   | <b>CLOSING CEREMONY</b>   |
|                                 |   | <b>ZOOM CONNECTION LINKS</b>  |
| <b>FIRST DAY</b>                |   | <a href="https://us06web.zoom.us/j/9566895657?pwd=3Mw8ruUu82rWxD1xHkWKrgzNaArcdS.1&amp;omn=87320616563">https://us06web.zoom.us/j/9566895657?pwd=3Mw8ruUu82rWxD1xHkWKrgzNaArcdS.1&amp;omn=87320616563</a> |
| <b>SECOND DAY</b>               |   | <a href="https://us06web.zoom.us/j/9566895657?pwd=3Mw8ruUu82rWxD1xHkWKrgzNaArcdS.1&amp;omn=89964330653">https://us06web.zoom.us/j/9566895657?pwd=3Mw8ruUu82rWxD1xHkWKrgzNaArcdS.1&amp;omn=89964330653</a> |
| <b>THIRD DAY</b>                |   | <a href="https://us06web.zoom.us/j/9566895657?pwd=3Mw8ruUu82rWxD1xHkWKrgzNaArcdS.1&amp;omn=89297670040">https://us06web.zoom.us/j/9566895657?pwd=3Mw8ruUu82rWxD1xHkWKrgzNaArcdS.1&amp;omn=89297670040</a> |
|                                 |   | <b>MEETING ID: 956 689 5657</b>   |
|                                 |   | <b>PASSWORD: icmrs</b>  |