

## 2nd INTERNATIONAL CONFERENCE ON "MATHEMATICAL MODELLING IN APPLIED SCIENCES"

http://icmmas19.alpha-publishing.net/



Belgorod State University, Belgorod, Russia August 20 – 24, 2019

## **Conference Program**

| 08h00-10h00 Registration BSU University Meeting Hall, 1s 10h00-10h30 Opening Ceremony BSU Big Conference Hall, Hall A  First Plenary Sessions 10h30 - 12h3 10h30-11h10 D. Baleanu, Which classification of fractional oper 11h10-11h50 V. Romanovski, Hopf Bifurcations and Integrabilit V. Kravchenko, Transmutation operator method for spectral problems  12h30-14h00 Luncl First Contributed Talks (SS: 1) 14h00 - 15h40 V. Fedorov, Degenerate distributed order different applications  14h20-14h40 I. Polovinkin, On Properties of Mean Values of Sol | 3rd Floor  Chair: S. Sitnik  ators is the best?  y in Some Biochemical Models  or practical solution of forward and inverse  Chairs: V. Fedorov and E. Shishkina |
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| Hall A  First Plenary Sessions 10h30 - 12h3  10h30-11h10 D. Baleanu, Which classification of fractional oper 11h10-11h50 V. Romanovski, Hopf Bifurcations and Integrabilit  11h50-12h30 V. Kravchenko, Transmutation operator method for spectral problems  12h30-14h00 Luncl  First Contributed Talks (SS: 1) 14h00 - 15h40 V. Fedorov, Degenerate distributed order different applications   | Chair: S. Sitnik ators is the best? y in Some Biochemical Models or practical solution of forward and inverse  Chairs: V. Fedorov and E. Shishkina               |
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| 11h10-11h50 V. Romanovski, Hopf Bifurcations and Integrabilit  11h50-12h30 V. Kravchenko, Transmutation operator method for spectral problems  12h30-14h00 Luncl  First Contributed Talks (SS: 1) 14h00 – 15h40 V. Fedorov, Degenerate distributed order different applications  | y in Some Biochemical Models or practical solution of forward and inverse h Chairs: V. Fedorov and E. Shishkina  |
| 11h50-12h30  V. Kravchenko, Transmutation operator method for spectral problems  12h30-14h00  First Contributed Talks (SS: 1) 14h00 – 15h40  V. Fedorov, Degenerate distributed order different applications   | or practical solution of forward and inverse  Chairs: V. Fedorov and E. Shishkina  |
| spectral problems  12h30-14h00  First Contributed Talks (SS: 1) 14h00 - 15h40  V. Fedorov, Degenerate distributed order different applications   | h<br>Chairs: V. Fedorov and E. Shishkina   |
| First Contributed Talks (SS: 1) 14h00 – 15h40 ( 14h00-14h20 V. Fedorov, Degenerate distributed order differen applications   | Chairs: V. Fedorov and E. Shishkina  |
| 14h00-14h20 V. Fedorov, Degenerate distributed order different applications  |  |
| applications   | tial equations in Banach spaces and  |
| 14h20-14h40   I. Polovinkin, On Properties of Mean Values of Sol   |  |
|  |  |
| 14h40-15h00 V. Polunin, The Moisil-Theodorescu system in com   |  |
| 15h00-15h20 N. Uskova, On diagonalization of some class matr   | ices   |
| 15h20-15h40 D. Zirem, Learning in the Hidden Markov Chain  |  |
| 15h40-16h10 Coffee Break & Po  |  |
|  | Chairs: V. Fedorov and E. Shishkina  |
| 16h10-16h30 E. Raetskaya, Solution of a multipoint control proderivatives  |  |
| 16h30-16h50 M. Shevtsova, Geometric Interpretation of Solution Thermodynamics  | on of Differential Equation in   |
| 16h50-17h10 A. Makovetskii, A generalized variational problem  | of point-to-point ICP  |
| 17h10-17h30 M. Dyshaev, Study of option pricing models with i  | nsufficient liquidity and transaction costs  |
| 17h30-17h50   E. Shishkina, Hyperbolic potentials generated by   | the Bessel operator  |
| Hall B   |  |
| First Contributed Talks 14h00 - 15h40  |  |
| 14h00-14h20 N. Levashova, Propagation and Stabilizing of a Fro<br>Characteristics  |  |
| 14h20-14h40 V. Saenko, Integral representation of the Mittag-l   |  |
| 14h40-15h00 A. Melnikova, Boundary Layer Solution for an Ellip Boundary Condition  | otic Problem with a Singular Neumann   |
| 15h00-15h20 L. Britvina, Generalized Hankel convolution with t   |  |
| 15h20-15h40 A. Kulikov, Local dynamics of the dispersion versi   |  |
| 15h40-16h10 Coffee Break & Po  |  |
| Second Contributed Talks 16h10 – 17h50   |  |
| 16h10-16h30 V. Vasilyev, Fredholm properties of elliptic operations  |  |
| 16h30-16h50 V. Beloshapko, Peculiarities of nonlinear system of differential equations. Time-periodic problem  | f two-dimensional singularly perturbed   |
| 16h50-17h10 E. Burlakov, On Volterra-Hammerstein Integral Ir   | clusions and Their Applications  |
| 17h10-17h30 V. Sidoryakina, The study of the correctness of the and suspended matter transport   |  |

| 17h30-17h50 Y. Virchenko, Divergent second order evolution equations of solenoidal vector field on R^3 |   |  |  |
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| Hall C   |   |  |  |
| First Contributed Talks (SS: 2 & 4) 14h00 - 15h40 Chairs: A. Khastan et al.                            |   |  |  |
| 14h00-14h20  | A. Khastan, Linear dynamical equations with uncertainty on time Scales  |  |  |
| 14h20-14h40  | Z. Alijani, A Chebyshev based numerical methods for solving fractional fuzzy differential   |  |  |
| 141120-141140  | equations   |  |  |
| 14h40-15h00  | S.S.A. Yazdi, Full Fuzzy function Approximation by using Radial Basis Function interpolation  |  |  |
| 15h00-15h20  | B. Takhedmit, Uncertainty Quantification in M/G/1/N Queue with Dependent Breakdowns   |  |  |
| 15h20-15h40  | S. Rathinasamy, UDE-based robust tracking control for uncertain dynamical systems   |  |  |
| 15h40-16h10  | Coffee Break & Poster Session 1   |  |  |
| Second Contributed Talks (SS: 2 & 4) 16h10 - 17h50 Chairs: A. Khastan et al.                           |   |  |  |
| Secon  | d Contributed Talks (SS: 2 & 4) 16h10 - 17h50 Chairs: A. Khastan et al.   |  |  |
| <b>Secon</b> 16h10-16h30   | d Contributed Talks (SS: 2 & 4) 16h10 – 17h50 Chairs: A. Khastan et al.  M. Panchenko, Fuzzy inference methods for flexible neuro-fuzzy systems   |  |  |
|  |   |  |  |
| 16h10-16h30  | M. Panchenko, Fuzzy inference methods for flexible neuro-fuzzy systems  |  |  |
| 16h10-16h30<br>16h30-16h50   | M. Panchenko, Fuzzy inference methods for flexible neuro-fuzzy systems  E. Can, Numerical Solution for a Fuzzy Fractional Population Growth   |  |  |
| 16h10-16h30<br>16h30-16h50<br>16h50-17h10  | M. Panchenko, Fuzzy inference methods for flexible neuro-fuzzy systems  E. Can, Numerical Solution for a Fuzzy Fractional Population Growth  F. Cheurfa, P-boxes for uncertainty analysis of classic risk model |  |  |

| August 21, 2019  |  |  |
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| Hall A   |  |  |
|  | Second Plenary Sessions 09h00 - 11h00 Chair: D. Baleanu  |  |
| 09h00-09h40  | J.C. Cortés, Computing the probability density function of non-stationary solutions for some significant random differential equations: Beyond means and variances |  |
| 09h40-10h20  | S. Sitnik, Integral Transforms Composition Method (ITCM) in Transmutation Theory   |  |
| 10h20-11h00  | I. Perfilieva, Fuzzy Transforms Through the Prism of Galerkin Methods  |  |
| 11h00-11h30 Coffee Break   |  |  |
| Third Contributed Talks (SS: 5) 11h30 - 12h50 Chairs: I. Dassios & I.L. Popa |  |  |
| 11h30-11h50  | I.L. Popa, Generalized Stability for Linear Time-Varying Discrete-time Systems   |  |
| 11h50-12h10  | D. Bukahnov, Detecting Malware Software using Articial Neural Network based on Adaptive Resonance Theory with a Hierarchical Structure of Memory                   |  |
| 12h10-12h30  | F. Boulahia, Existence and uniqueness of asymptotically w-periodic solutions of recurrent neural networks with time-varying coefficients and mixed delays          |  |
| 12h30-12h50  | S. Dhama, Pseudo Almost Automorphic solution of a Leslie-Gower Predator Prey model on time scales  |  |
| 12h50-14h20  | Lunch  |  |
| Fourth   | Contributed Talks (SS: 5) 14h20 - 15h40 Chairs: I. Dassios & I.L. Popa   |  |
| 14h20-14h40  | I. Dassios, Methods in system theory, differential equations & networks for mathematical modelling   |  |
| 14h40-15h00  | A. Jawad, Chirped bright Solitons of nonlinear Schrödinger models in optical fibers using Sech Scheme  |  |
| 15h00-15h20  | S. Zuev, Numerical path integration and probability modelling of chaotic systems   |  |
| 15h20-15h40  | V. Egorova, Multi-scale modelling for wildfire propagation: interplay between meso- and macro-scale factors  |  |
| 15h40-16h00  | P. Kabalyants, Application of discrete models of dynamic systems for remote detection of cyanotoxin sources on aquatories  |  |
|  | Hall B   |  |
|  | Third Contributed Talks 11h30 - 12h50 Chair: P. Surkov   |  |
| 11h30-11h50  | M. Al Khaleel, Nonlinear type contraction in \$G\$-metric spaces   |  |
| 11h50-12h10  | V. Makovetsky, The constructions of transmutations for hypergeometric differential operators of higher order   |  |
|  |  |  |
| 12h10-12h30  | S. Guenfoud, Evaluation of the Integrals of the Green's Function of the Lamb's Model Entering in the Contact Problems  |  |

| 12h50-14h20   |  |  |  |
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| Fourth Contributed Talks 14h20 - 15h40 Chair: A. Soldatov |  |  |  |
| 14h20-14h40   | A. Setukha, Numerical Simulation of Electromagnetic Scattering Using Boundary Hypersingular Integral Equations Method    |  |  |
|   | B. Tishchenko, Existence and Stability of the Solution of the Two Stationary Diffusion                                   |  |  |
| 14h40-15h00   | Equation System With Internal Transition Layer in a Medium with Discontinuous  |  |  |
|   | Characteristics  |  |  |
| 15h00-15h20   | L. Kovaleva, The Dirichlet problem on two-dimensional stratified sets  |  |  |
| 15h20-15h40   | O. Tarasova, On some estimates for discrete boundary value problems  |  |  |
| 15h40-16h00   | A. Meirmanov, Free boundary problems and homogenization on non-periodic structures                                       |  |  |
| Hall C  |  |  |  |
| Third Contributed Talks 11h30 - 12h50 Chair: Y. Virchenko |  |  |  |
| 11h30-11h50   | K. Mecheri, Econometric modeling of Bejaia's citrus production from 1983 to 2018   |  |  |
| 11h50-12h10   | O. Chernova, Integral representation of solutions of an elliptic system  |  |  |
| 12h10-12h30   | V. Devi, The application of Lagrange's operational matrix method for two-dimensional hyperbolic telegraph equation       |  |  |
| 12h30-12h50   | F. Soleyman, On the finite orthogonality of q-classical polynomials  |  |  |
| 12h50-14h20   | Lunch  |  |  |
|   | Fourth Contributed Talks 14h20 - 15h40 Chair: V. Vasilyev  |  |  |
| 14h20-14h40   | G. Alexander, Bessel family of operator functions  |  |  |
| 14h40-15h00   | D. Demskoi, On non-steady solutions of ideal fibre-reinforced fluids on the plane  |  |  |
| 15h00-15h20   | B.S. Bigham, Two Disjoint Convex Hulls   |  |  |
| 15h20-15h40   | M.F. Teodoro, Approximating the Solution of Some Advanced-Retarded Differential Equations Using a Technique Based on HAM |  |  |
| 15h40-16h00   | V. Nikolaev, On a Condition for the Existence of Solutions to the Homogeneous Schwarz<br>Problem                         |  |  |

| August 21, 2019                                |                                    |  |
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| August 21, 2019                                |                                    |  |
| 16h00-19h00 Social Program 1: Evening Bus Tour |                                    |  |
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| August 22, 2019  |   |  |
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| Hall A   |   |  |
| Third Plenary Sessions 09h00 - 11h00 Chair: J.C. Cortés  |   |  |
| 09h00-09h40  | A. Atangana, Fractional differentiation and integration above power law                           |  |
| 09h40-10h20  | R. Hilfer, Local Equilibrium in Time  |  |
| 10h20-11h00  | H. Jafari, A numerical method for solving a type of variable order partial differential equations |  |
| 11h00-11h30 Coffee Break                                 |   |  |
| Fifth Contributed Talks 11h30 - 12h50 Chair: S.M. Sitnik |   |  |
| 11h30-11h50  | M.V. Shamolin, Integrable Dissipative Dynamical Systems: Approach and Applications                |  |
| 11h50-12h10  | V. Orlov, On strong solutions of a fractional nonlinear viscoelastic model of Voigt type          |  |
| 12h10-12h30  | V. Kandu, On Nonlinear Vibrations of an Elastic Plate on a Fractional Viscoelastic Foundation     |  |
| 12h30-12h50  | S. Pisareva, Correct solvability of nonstationary problems in Stepanov spaces                     |  |
| 12h50-14h20  | Lunch   |  |
|  | Hall B  |  |
|  | Fifth Contributed Talks 11h30 - 12h50 Chair: A. Meirmanov   |  |
| 11h30-11h50  | M.L. Thivagar, A Computational Technique of Nano Topological Model via Graphs                     |  |
| 11h50-12h10  | M.D. Christober, On Nano Topological Model Induced by New Class of Generalized Closed sets        |  |
| 12h10-12h30  | A. Soldatov, Linear Conjugation Problem for Bi-Analytic Functions in the Weighted Holder Spaces   |  |
| 12h30-12h50  | N. Mahmudov, Ulam-Hyers stability for impulsive nonlinear time-delay systems                      |  |
| 12h50-14h20  | Lunch   |  |
|  | Hall C  |  |
|  | Fifth Contributed Talks 11h30 - 12h50 Chair: V. Polunin   |  |

| 11h30-11h50   | R. Bourguiba, Positve iterative solutions for nonlinear fractional differential equations |  |
|---------------|---|--|
| 11h50-12h10   | Z. Hammouch, Mathematical modeling and analysis of some reaction-diffusion problems with  |  |
| 111130-121110 | nonsingular-kernel derivatives  |  |
| 12h10-12h30   | D. Batishchev, Methods for calculating the quality criteria of medical images             |  |
| 12h30-12h50   | A. Tiukhtina, Mathematical Problems of Atmospheric Electricity                            |  |
| 12h50-14h20   | Lunch   |  |

| August 22, 2019 |  |  |
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| 15h00-21h00     | 15h00-21h00   Social Program 2: Excursion to Belgorod region and historical places |  |

| August 23, 2019 |  |  |  |
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| Hall A          |  |  |  |
|                 | Contributed Talks (SS: 3) 09h00 - 10h40 Chairs: A. Debbouche & C. Pinto  |  |  |
| 09h00-09h20     | I. Talib, A generalized operational matrix: An application to fractional Differential Equations  |  |  |
| 09h20-09h40     | Z. Hussain, An optimized Stability model for Magnetohydrodynamic Fluid   |  |  |
| 09h40-10h00     |  |  |  |
| 10h00-10h20     | M. Plekhanova, Strong solutions for a class of semilinear equations with lower fractional derivatives  |  |  |
| 10h20-10h40     | A. Avilovich, Degenerate fractional order differential equations in Banach spaces and applications   |  |  |
| 10h40-11h20     | Coffee Break & Poster Session 2  |  |  |
| Seventh         | Contributed Talks (SS: 3) 11h20 – 12h40 Chairs: A. Debbouche & C. Pinto  |  |  |
| 11h20-11h40     | A. Debbouche, Mathematical model involving time-fractional partial differential equations  |  |  |
| 11h40-12h00     | A. Nagumanova, Linear Inverse Problems for a Class of Degenerate Fractional Differential Equations in Banach Spaces                          |  |  |
| 12h00-12h20     | E. Guariglia, Fractional derivative of the Lerch zeta function and Banach algebras   |  |  |
| 12h20-12h40     | R.K. Maurya, Stable numerical scheme for two dimensional quasilinear fractional waves model  |  |  |
| 12h40-14h00     | Lunch  |  |  |
| Eighth (        | Contributed Talks (SS: 3) 14h00 - 15h40 Chairs: A. Debbouche & C. Pinto  |  |  |
| 14h00-14h20     | R. Kalantari, A Stable and Convergent Non-Standard Finite Difference Method for Fractional Black-Scholes Model of Digital Put Option Pricing |  |  |
| 14h20-14h40     | V. Kumar, Controllability Results for Fractional Damped Dynamical Equation with Non-instantaneous Impulses                                   |  |  |
| 14h40-15h00     | N. Belevtsov, The general solution of a fractional Bessel equation   |  |  |
| 15h00-15h20     | S. Al-Sharif, On Compact Fractional Semigroup of Bounded Linear Operators  |  |  |
| 15h20-15h40     | A. Nuseir, Exact solutions for generalized Benjamin-Bona-Mahony equation using direct methods  |  |  |
| 15h40-16h10     | Coffee Break   |  |  |
| Ninth C         | Contributed Talks (SS: 3) 16h10 - 17h50 Chairs: A. Debbouche & C. Pinto  |  |  |
| 16h10-16h30     | C. Pinto, Autoimmune diabetes in HIV infected patients: insights from a mathematical model   |  |  |
| 16h30-16h50     | P. Surkov, On the Solution Tracking Problem with Incomplete Information for the System of Nonlinear Fractional Differential Equations        |  |  |
| 16h50-17h10     | R. Sibatov, Tempered fractional equation for electron transport in quantum wires with fractal disorder                                       |  |  |
| 17h10-17h30     | T. Abdeljawad, The discrete counterpart of fractional operators with generalized Mittag-Leffler kernels                                      |  |  |
|                 | Hall B   |  |  |
|                 | Sixth Contributed Talks 09h00 - 10h40 Chair: V. Vasilyev   |  |  |
| 09h00-09h20     | M. Chebbah, Simulation Improvements for efficient combination of two lower bound functions in univariate global optimization                 |  |  |
| 09h20-09h40     | A. Ferrag, Approximate and complete controllability of stochastic systems with impulsive effects in infinite dimension                       |  |  |
| 09h40-10h00     | R.A. Yahia, Quasi-boundary value method for a linear ill-posed parabolic problem   |  |  |

| 10h00-10h20 Ali Akgül, A novel method for boundary layer ow of a Powell-Eyring non-Newtonian fluid |   |  |  |
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| 10h20-10h40  |   |  |  |
| 10h40-11h20  | Coffee Break & Poster Session 2   |  |  |
|  | Seventh Contributed Talks 16h10 – 17h50 Chair: S.M. Sitnik  |  |  |
| 11h20-11h40  | ,   |  |  |
| 11h40-12h00  | S. Hamani, Impulsive fractional differential inclusions involving Liouville-Caputo-Hadamard fractional derivatives  |  |  |
| 12h00-12h20  | A. Sahari, Nucleation and growth of metallic ions onto surfaces: Mathematic view  |  |  |
| 12h20-12h40  | H. Benseridi, Study of an evolution problem in a thin domain with Fourier and Tresca boundary conditions  |  |  |
| 12h40-14h00  | Lunch   |  |  |
|  | Eighth Contributed Talks 14h00 - 15h40 Chair: V. Fedorov  |  |  |
| 14h00-14h20  | M. Tilioua, Control of ferromagnetic structures at elevated temperature   |  |  |
| 14h20-14h40  | M.R.S. Ammi, Optimal control of a nonlocal thermistor problem with with nonlocal and nonsingular Mittag-Leffler kernel  |  |  |
| 14h40-15h00  | S. Himri, The encapsulation of some derivatives of Anilinonaphthalene sulfonate by β-Cyclodextrin: A DFT investigation  |  |  |
| 15h00-15h20  | S. Lamari, Efficient basis set for the bound states of the Kane Hamiltonian in the MOSFET device geometry   |  |  |
| 15h20-15h40  | N. Kribes, Surface roughness modeling by using Taguchi method on hard tuning  |  |  |
| 15h40-16h10  | Coffee Break  |  |  |
| N  | linth Contributed Talks (SS: 1) 16h10 - 17h50 Chair: A. Meirmanov   |  |  |
| 16h10-16h30  | I. Touil, A primal-dual interior point algorithm for semidefinite programming based on a new barrier function   |  |  |
| 16h30-16h50  | W. Chikouche, The transmission problem for the Laplace operator on a domain with a cuspidal point   |  |  |
| 16h50-17h10  | S. Lounis, Second order differential inclusion governed by sweeping process in Hilbert spaces   |  |  |
| 17h10-17h30  | L. Menniche, A logarithmic barrier method for linear programming using a new minorant function  |  |  |
|  | Hall C  |  |  |
|  | Sixth Contributed Talks 14h00 - 15h40 Chair: Y. Virchenko   |  |  |
| 09h00-09h20  | S. Lingeshwaran, Analysis of solutions of p-Laplacian parabolic system with integrable data   |  |  |
| 09h20-09h40  | H. Boulares, Stability analysis for fractional differential equations in Weighted Sobolev spaces M. Dalah, Existence and Uniqueness of the Weak Solution for an Antiplane Contact Problem |  |  |
| 09h40-10h00  | with Friction   |  |  |
| 10h00-10h20  | J.R. Wang, Controllability of Conformable Fractional Differential Systems   |  |  |
| 10h20-10h40  | F. Nouioua, Periodic Solutions for a Third-Order Nonlinear Delay Differential Equation with Variable Coefficients   |  |  |
| 10h40-11h20  | Coffee Break & Poster Session 2   |  |  |
|  | Seventh Contributed Talks 16h10 - 17h50 Chair: A. Soldatov  |  |  |
| 11h20-11h40  | N. Touafek, On a higher-order nonautonomous rational difference equation with periodic coefficients   |  |  |
| 11h40-12h00  | N. Boussetila, An iterative regularization method for fractional inverse problems   |  |  |
| 12h00-12h20  | R. Boukoucha, Coexistence of algebraic and non-algebraic limit cycles of a family of polynomial differential systems  |  |  |
| 12h20-12h40  | I. Area, Some open problems on multivariate orthogonal polynomials on nonuniform lattices   |  |  |
| 12h40-14h00  | Lunch   |  |  |
|  | Eighth Contributed Talks 14h00 - 15h40 Chair: O. Chernova   |  |  |
| 14h00-14h20  | Ekaterina Kisileva, Mathematical model of learning system   |  |  |
| 14h20-14h40  | /   |  |  |
| 14h40-15h00  |   |  |  |
| 15h00-15h20  |   |  |  |
| 15h20-15h40  |   |  |  |
| 15h40-16h10  | Coffee Break  |  |  |
|  | Ninth Contributed Talks 14h00 - 15h40 Chair:  |  |  |

| 16h10-16h30 | / |  |
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| 16h30-16h50 |   |  |
| 16h50-17h10 |   |  |
| 17h10-17h30 |   |  |

| August 23, 2019 |  |
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| 19h00-23h00     | Social Program 3: Conference dinner/Banquet  |
| 171100 231100   | Social Frogram 5: conference annier/ banquet |

| August 24, 2019 |  |
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| 09h00-11h00     | Scientific Meeting & Closing Ceremony BSU Big Conference Hall, 3rd Floor |