

PROGRAM

MMPE'21: MATHEMATICAL MODELING IN PHYSICS AND ENGINEERING

Thursday, 17th June

Conference participants presentations

APPROXIMATION OF THE RIESZ-CAPUTO FRACTIONAL DERIVATIVE OF VARIABLE ORDER

Tomasz Blaszczyk, Krzysztof Bekus, Krzysztof Szajek, Wojciech Sumelka

FAILURES IN OVERLOADED POWER GRIDS

Zbigniew Domanski

THE REWARD FOR A GOOD DECISION VS PUNISHMENT FOR THE WRONG ONE – HOW IT WORKS IN MACHINE LEARNING-BASED CLASSIFICATION

Andrzej Z. Grzybowski

SOLVING THE PROBLEM OF THERMAL CONTACT CONDUCTANCE WITH A TIME DERIVATIVE IN CONJUGATION CONDITION USING THE POTENTIAL METHOD

Bohdan Kopytko, Roman Shevchuk

FRACTIONAL HEAT CONDUCTION IN A COMPOSITE SOLID CYLINDER SUBJECTED TO A HEAT SOURCE

Stanisław Kukła, Urszula Siedlecka

MODELING ELECTRICAL ACTIVITY OF NEURONS

Frank Fernando Llovera Trujillo, Justyna Signerska-Rynkowska

VOLUME FORM, VECTOR PRODUCT AND THE DIVERGENCE THEOREM

Antoni Pierzchalski

YOUNG MEASURES ASSOCIATED WITH SEQUENCES OF A CERTAIN CLASS OF M-OSCILLATING FUNCTIONS

Piotr Puchała

EFFECT OF THROAT GEOMETRY ON MIXING PHENOMENON IN VENTURI GAS MIXER USING OPENFOAM

Mathias Romańczyk

AN EXACT SOLUTION OF FRACTIONAL EULER-BERNULLI EQUATION WITH DIFFERENT TYPES OF BOUNDARY CONDITIONS

Jaroslav Siedlecki, Tomasz Blaszczyk

SOME EXTENSIONS OF SEMANTIC MODELLING FOR SELECTED DOMAIN SPECIFIC LANGUAGES

William Steingartner, Valerie Novitzká

NUMERICAL SIMULATION OF THERMAL PHENOMENA DURING BUTT WELDING OF ALUMINUM ALLOY SHEETS

Jerzy Winczek, Mateusz Matuszewski

LOCALLY DEFINED OPERATORS IN THE SPACES OF FUNCTIONS OF BOUNDED JORDAN VARIATION

Małgorzata Wróbel

Friday, 18th June

Online meeting

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| 10:00 | Opening/Welcome
Katarzyna Freus |
| 10:05 | Panel discussion
Moderators: Andrzej Grzybowski, Tomasz Błaszczyk |
| 12:00 | Conference closing
Tomasz Błaszczyk |