



The Fifth Conference on
Information Theory and Complex Systems TINKOS 2017,
November 9-10, 2017



Book of abstracts

(ISBN: 978-86-80593-61-6)

Table of contents

Complexity Research in the Humanities - Recent Examples

Bojan M. Tomić, Milica M. Tomić

1

[\[abstract\]](#)[\[presentation\]](#)

Mitotic Spindle as Complex Structure: Relation Between Spindle Size and Energy Distribution

Andjelka Hedrih, Katica (Stevanović) Hedrih

3

[\[abstract\]](#)[\[presentation\]](#)

Bifurcation in the Complex Bray-Liebhafsky Oscillatory Reaction

as a Function of the Hydrogen-peroxide Concentration

Kristina Stevanović, Itana Nuša Bujanja, Jelena Maksimović, Branislav Stanković,

4

Maja Pagnacco, Stevan Maćešić, Željko Čupić, Ljiljana Kolar-Anić

[\[abstract\]](#)[\[presentation\]](#)

Algebraicity of the Co-domain Lattice and Related Results on Fuzzy Set Equations and Inequations

Vanja Stepanović

6

[\[abstract\]](#)[\[presentation\]](#)

Kraus Operators for a Pair of Interacting Qubits: a Case Study

Momir Arsenijević

7

[\[abstract\]](#)[\[presentation\]](#)

On the Concept of Local Time in Quantum Mechanics

J. Jeknić-Dugić, M. Dugić

8

[\[abstract\]](#)[\[presentation\]](#)

Dynamical Identity of the Brouwer Continuum

Miloš Milovnović

9

[\[abstract\]](#)[\[presentation\]](#)

Some Recent Results Concerning Rényi Entropy

Velimir Ilić, Ivan Djordjević, Miomir Stanković

11

[\[abstract\]](#)[\[presentation\]](#)



The Fifth Conference on
Information Theory and Complex Systems TINKOS 2017,
November 9-10, 2017



Book of abstracts

(ISBN: 978-86-80593-61-6)

Table of contents

GNN Models for Solving Matrix Equations

Predrag Stanimirović, Marko Petković, Miroslav Ćirić

12

[\[abstract\]](#)[\[presentation\]](#)

Error Analysis of a Kernel Regression Based on a Randomized Matrix Approximation

Aleksandar Trokicić, Branimir Todorović

14

[\[abstract\]](#)[\[presentation\]](#)

Sequential Adaptation of Recurrent NARX Neural Network Structure Using Derivative free Bayesian Filters

Branimir Todorović

15

[\[abstract\]](#)[\[presentation\]](#)

Optimal Slicing in Wireless 5G Networks

Zoran Bojković, Dragorad Milovanović

16

[\[abstract\]](#)[\[presentation\]](#)

Positional Analysis of Multi-mode Fuzzy Networks

Miroslav Ćirić, Jelena Ignjatović, Ivan Stanković

18

[\[abstract\]](#)[\[presentation\]](#)

Topological Counterpart for Integration and Differentiation in Complex Networks

Slobodan Maletić, Miroslav Andjelković, Milan Rajković

20

[\[abstract\]](#)[\[presentation\]](#)

High-dimensional Structure Phenomenon in Social Brain

Miroslav Andjelković, Bosiljka Tadić, Zoran Levnajić, Biljana Mileva Boshkoska

21

[\[abstract\]](#)[\[presentation\]](#)

Structure and Dynamics of Event-driven Social Groups

Marija Mitrović Dankulov, Jelena Smiljanić

22

[\[abstract\]](#)[\[presentation\]](#)