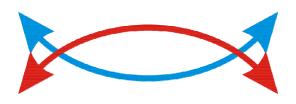
ITHEA International Scientific Society



ITA 2012

Joint International Scientific Events on Informatics



MDA 2012

International Conference Mathematics of Distances and Applications July 02 - 05, 2012, Varna (Bulgaria)

PROGRAMME

ITHEA Varna, 2012







ITA 2012 Main Scientific Events www.ithea.org

i i i 2012	iİi	Third International Conference Information - Interaction - Intellect
CFDM 2012		IV-th International Conference Classification, Forecasting, Data Mining
i.Tech 2012	iltech	X-th International Conference Information Research and Applications
GIT 2012		X-th International Conference General Information Theory
ISK 2012		IV-th International Conference Information in Scientific Knowledge
IM 2012		International Conference Informational Modelling
MDA 2012		International Conference Mathematics of Distances and Applications
MeL 2012	- 3V	VII-th International Conference Modern (e-) Learning
KDS 2012	\$	XVIII-th International Conference Knowledge - Dialogue - Solution
INFOS 2012	0	V-th International Conference on Intelligent Information and Engineering Systems
NIT 2012	R	Third International Conference Natural Information Technologies
ISSI 2012	ISZI	VI-th International Summer School on Informatics



Joint International Conferences ITA 2012 International Conference Mathematics of Distances and Applications (MDA 2012)



July 02 - 05, 2012, Varna (Bulgaria)

	Sunday	01.07.2012
Registration on arrival		

	Monday 02.07.2012
09:00-09:30	Opening
09:30-13:00	Session 1 "Geometric complexity in aperiodic order", part 1
09:30-10:20	Differential geometry derived from divergence functions: information geometry approach
10:20-10:50	S. AmariTiling vertices and the spacing distribution of its radial projectionsT. Jakobi
10:50-11:30	Break
11:30-12:00	Complexity of some remarkable aperiodic patterns: Kolakoski sequences, visible Ammann-Beenker points etc. B. Sing
12:00-12:30	Bi-Lipschitz equivalence and wobbling equivalence of Delone sets D. Frettloeh
12:30-13:00	An ergodic theorem for generalized random Fibonacci substitutions M. Moll
13:00-14:30	Lunch Break
14:30-19:00	Session 2 "Distances in probability, statistics and data analysis"
14:30-15:20	Aperiodic order in self-assembly with anisotropic particles and competing distances M. Engel
15:20-15:50	Some results on INDSCAL dimension V. Choulakian
15:50-16:20	Intervals as ultrametric approximations according to the supremum norm <u>B. Fichet</u>
16:20-17:00	Break
17:00-17:30	Construction of geometric divergence on q-exponential family H. Matsuzoe
17:30-18:00	Geometrical tools for alpha-Voronoi partitions A. Ohara, Y. Nagatani
18:00-18:30	Informational geometric properties of escort transformation on exponential models P. Regnault
18:30-19:00	Distances in the pyramidal hyper clustering high-dimensional data K. Ivanova, K. Vanhoof, <u>K. Markov</u>





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	Tuesday - 03.07.2012			
9:00-13:00	Session 3 "Geometric complexity in aperiodic order", part 2			
9:00-9:50	Distances in N-fold rhombic quasicrystals			
	<u>J. Roth</u>			
9:50-10:20	On covering properties of the icosahedral tiling T*(2F)			
	G. Kasner			
10:20-10:50	Magnetic currents in aperiodic tilings			
	<u>E. Vedmedenko</u> , U. Grimm			
10:50-11:30	Break			
11:30-12:00	Scaling properties of the Fibonacci trace-map stable set			
	L. Raymond			
12:00-12:30	Distance between objects described by predicate formulas			
	T. Kosovskaya			
12:30-13:00	Cones of weighted quasimetrics, weighted quasihypermetrics and of oriented cuts			
	V. Grishukin, E. Deza, M. Deza			
13:00-14:30	Lunch Break			
14:30-19:00	Session 4 "Distances in behavioral, life, and physical sciences"			
14.20 45.20	Discipuling the consequent on the consequence			
14:30-15:20	Dissimilarity cumulation theory			
45.30 45.50	E. Dzhafarov			
15:20-15:50	Ultrametric Fechnerian scaling of discrete object sets			
15.50 16.30	H. Colonius, E. Dzhafarov			
15:50-16:20	Pseudo-quasi metrics on jointly distributed random variables			
16:20-17:00	J. Kujala, E. Dzhafarov Break			
17:00-17:30	Metric tensor as degree of coherence in the dynamical organization of the central			
17.00-17.30				
	nervous system <u>S. Roy</u> , R. Llinas			
17:30-18:00	The generalization of matrix multiplication			
17.30-18.00	A. Simonov			
18:00-18:30	Physical structures theory and measurement theory			
10.00-10.30	E. Vityaev			
18:30-19:00	Symmetrization: ranking and clustering in protein interfaces			
10.50-15.00	G.Feverati, C.Lesieur, L.Vuillon			
20:00				
20.00	Banquet			







	Wednesday - 04.07.2012		
9:00-13:00	Session 5 "Discrete geometry, combinatorics, and distances", part 1		
9:00-9:50	External symmetries of regular embeddings of graphs		
	<u>J. Siran</u>		
9:50-10:20	Distances on antimatroids		
	Y. Kempner, V. Levit		
10:20-10:50	On the split structure of lifted groups, I		
	A. Malnic		
10:50-11:30	Break		
11:30-12:00	An infinite family of half-arc-transitive graphs with universal reachability relation		
	D. Marusic		
12:00-12:30	Acute triangulations of surfaces		
	<u>C. Zamfirescu</u>		
12:30-13:00	Hereditary polytopes		
	A. Weiss		
	Lunch Break		
14:30-19:00	Session 6 "Distances in graphs"		
14:30-15:20	Distance-transitive graphs admit semiregular automorphisms		
14.50-15.20	K. Kutnar		
15:20-15:50	How the minimum number of cycles of length m in a strongly connected tournament		
13.20-13.30	of order n depends on the maximum distance between two vertices		
	S. Savchenko		
15:50-16:20	Logarithmic distances in graphs		
13.30 10.20	P. Chebotarev		
16:20-17:00	Break		
17:00-17:30	The L-eccentricity and the exchange property of least central subtrees		
	M. Hamina, A. Lankinen, M. Peltola		
17:30-18:00	On the discretization of distance geometry problems		
	A. Mucherino, C. Lavor, L. Liberti, N. Maculan		
18:00-18:30	Distance based indicesGutman index		
	<u>V. Andova</u>		
18:30-19:00	Some results on fullerene graphs		
10.50 15.00	Some results on functione graphs		







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	Thursday - 05.07.2012			
9:00-13:00	Session 7 "Coding theory"			
9:00-9:50	A brief survey of metrics in coding theory			
0.50.40.20	E. Gabidulin			
9:50-10:20	Metric based recommender systems			
10:20-10:50	A. Akhtarzada, C. Calude, J. Hosking			
10.20-10.30	Rank codes over Gaussian integers and space time block codes <u>H. Asif</u> , E. Gabidulin, B. Honary			
10:50-11:30	Break			
11:30-12:00	Classification results for (v,k,1) cyclic difference families with small parameters			
	T. Baicheva, S. Topalova			
12:00-12:30	New classes of metric spaces of measurable multisets and sets			
	A. Petrovsky			
12:30-13:00	Hardware implementation of rank codec			
	<u>I. Sysoev</u> , E. Gabidulin			
13:00-14:30	Lunch Break			
14:30-19:00	Session 8 "Discrete geometry, combinatorics, and distances", part 2			
14-20 45-20	Counting area and values for your Fuelideen not be due through side longths			
14:30-15:20	Counting area and volume for non-Euclidean polyhedra through side lengths A. Mednykh			
15:20-15:50	Regular inversive polytopes			
13.20 13.30	N. Johnson			
15:50-16:20	Several distance problems in proverb classification			
	D. Bokal, J. Jerebic, <u>A. Taranenko</u>			
16:20-17:00	Break			
17:00-17:30	Translational and geodesic distances and spheres in the 8 homogeneous 3-			
	geometries			
	E. Molnar			
17:30-18:00	On t-path closed graphs			
40.00.40.33	J. Koolen			
18:00-18:30	Non-concurrent longest cycles in lattice graphs			
18:30-19:00	T. Zamfirescu Cuba like polytopes and complexes			
10.30-19.00	Cube-like polytopes and complexes E. Schulte			
	<u>L. Schuite</u>			

	Friday	-	06.07.2012
Excursion			
Departures			



Mathematics of Distances and Applications (MDA 2012)

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Important information for participants in ITA 2012, Varna, Bulgaria Please read carefully!

1. Contacts

Mobile numbers of the members of the committee: +359 878 89 07 07, +359 878 89 07 08, +359 878 89 07 25 Panorama hotel: (+359 52) 36 28 98 www.panoramahotel.bg

2. Travel to the conference

1.1. From Varna

The PANORAMA HOTEL is located less than 10 km by the way from Varna to the Golden Sands resort. Please, see the map http://www.panoramahotel.bg/get eng.html .

The busses from Varna to Golden Sands (Zlatni pyasatsi): 9, 109, 209, 309, 409.

The name of the bus stop is "PANORAMA".

1.2. From Sofia

Besides the direct flight to Varna and/or the transfer flight from Sofia, there are two possible variants to get from Sofia to Varna:

- by train from the Central Railway Station: www.bdz.bg
- by bus from the Central Bus Station (right beside the Central Railway Station:

www.centralnaavtogara.bg.)

1.3. In Sofia

The transportation from the Sofia Airport to the Central Railway Station and the Central Bus Station can be as follows: By bus – 84 or 284 from the Airport to "Hotel Pliska" stop, and then 213 or 214 to the Central Station.

Note: Luggage bigger than the average will require an extra ticket as well.

- shuttle-bus from the airport to the station. The price is 1.50 BGN (possible additional taxes for the luggage).
- taxicab: **we do not recommend** to use this transport, or in case you do always check the prices on the stickers on the windows, because the foreigners especially are often offered incredibly high prices.

2. Medicines

We want to remind if you use some special medicines not to forget them.

3. Currency

The fixed official exchange rate: 1 EUR = 1.95583 BGN (leva).

In the change offices the exchange rate may vary from 1.9 to 1.95.

When you change money, please be careful when choosing the change office. At the airport usually the rates are not preferable.

Some change offices use on their front tables fixings which aren't used for the standard procedures – it might be for write the fixing on the front table, which is not the real rate for usual exchange (it may be the rate for checks or for exchanged amount more than 10,000 lv.). Please, always read the all the notices (usually written with smaller letters) and ask the clerk for the exact total you'll receive from the exchange.

We recommend exchanging not more than 50 EUR or USD at a time.

Caution!

Be careful with your money, documents and other important personal belongings.

Make sure you keep them safe with yourself, not putting them in your luggage, as you can easily become a victim of pickpockets or thieves otherwise.

Please be alert in the city public transport as well as in the bus/train when approached by strangers and never leave your baggage unattended.



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