

**Program of Indo-Russian conference on  
Algebraic Combinatorics, Number Theory & Applications to Information Security  
Machine Intelligence, Speech & Image Processing  
Cyber & Network Security**

**(May 29-31, 2017)**

**May 29, Monday, room 16-24**

10.00 – 10.15 Opening ceremony (V.A.Artamonov, A.V. Mikhalev, V.N. Latyshev, V.B.Kudryavcev, Dr. Anu Khosla)

**Chairman** V.T.Markov

10.15 – 10.45. Artamonov V.A. Polynomially complete quasigroups.

10.45 – 11.30. Dr. Anu Khosla - Network based security applications.

11.30 – 12.15. Dr. Girish Mishra - Machine intelligence for information security applications.

12.15 – 12.30 Break

**Chairman** V.A.Artamonov

12.30 – 13.45 Dr. Sucheta Chakrabarti - Algebraic combinatorial structures & its applications in cryptology.

12.45 – 14.15 Markov V.T. Embeddings of quasigroups.

14.15 – 15.15 Lunch

**Chairman** S. Chakrabarti

15.15 – 16.00 S. K. Pal - Public key cryptography design & analysis.

16.00 – 16.45 Nitin Sharma - Computer vision based security applications.

16.45 – 17.15 V.A. Vasenin, A.V. Galatenko "Relation-based access control models".

**May 30, 2014, Tuesday, room 16-24**

**Chairman** S.K.Pal

10.00 – 10.30 Arakelov G.G., Mikhalev A.V., Mikhalev A.A., Homomorphic cryptology and parallel computations.

10.30 – 11.00 Arakelov G.G., Mikhalev A.V. Linear algebra and algebraic aspects of cryptanalysis.

11.00 – 11.30 R.R.Aidagulov, S.T. Glavalsky , A.V.Mikhalev, On a method of clustering for big data

11.30 – 12.00 Krenkel T.E., Sylvester algebras and groups.

12.00 – 12.15 Break

**Chairman** Dr. Anu Khosla

12.15 – 12.45 Zobnin Alexei, Linear Algebra in Natural Language Processing

12.45 – 13.15 Dergach Petr "On alphabetical coding"

13.15 – 14.15 Break

**Room 13-02**

**Chairman** A.A. Mikhalev

14.15 – 14.45 Podkolsin A.S., Computer solving of mathematical problems

14.45 – 15.15 V.A . Artamonov, A. V. Galatenko, V.T. Markov, A. E. Pankratiev, Complexity of polynomial completeness verification.

15.15 – 15.45 S.K.Pal - "Steganalysis: Role of Computational Intelligence"

15.45 Discussions

**May 31, 2017, Wednesday, room 16-24**

**Chairman** V.N.Latyshev

10.00 – 10.45 Levin M., Advanced Machine Learning in Business

10.45 – 11.30 M. Vukovic, Paragraded rings and their radicals

11.30 – 12.00 Break

12.00 – 12.45. Vladimir Shpilrain (City University of New York) Yao's millionaires' problem and public-key encryption

12.45 **Closing ceremony**

15.00- 18.00 Discussions (room 1302)