LOOPS'15 CONFERENCE PROGRAM (THIRD DAY)

03.07.2015
Morning session

Session chair: David Stanovský

Applications of quasigroups in cryptography and coding theory

9:00 - 9:40	Invited talk:	**Smile Markovski:** *Design of crypto primitives based on quasigroups*
9:40 - 9:50		D. Gligoroski, S. Markovski, Lj. Kocarev: *Edon family of stream ciphers defined by quasigroup*
10:00 - 10:20		H. Mihajloska, D. Gligoroski and S. Samardjiska: *π-Cipher from he Theory of Quasigroups Perspective*
10:20 - 10:40		V. Bakeva, V. Dimitrova and M. Kostadinoski: *Some Properties of PRNG based on the Parastrophic Quasigroup Transformation*
10:40 - 11:00		Z. Trajcheska and V. Dimitrova: *Using Quasigroups to Design Binary 8×8 Matrices with Branch Number 5*

Coffee break — 11:00 - 11:30

Session chair: Aleksandar Krapež

11:30 - 11:50	D. Mechkaroska, A. Popovska-Mitrovikj and V. Bakeva: *Performance of Random Codes Based on Quasigroups in Gaussian channel*
11:50 - 12:10	A. Popovska-Mitrovikj, S. Markovski and V. Bakeva: *New DecodingAlgorithms for Random Codes Based on Quasigroups*
12:10 - 12:30	V. Ilievski, A. Popovska-Mitrovikj and V. Bakeva: *Transmission of Audio Files using Random Codes Based on Quasigroups*
12:30 - 12:50	N. Ilievska and D. Gligoroski: *Impact of the quasigroup order on probability of undetected errors on a model of error-detecting linear code*
12:50 - 13:00	N. Ilievska and D. Gligoroski: *A model of error-detecting linear code with fixed length redundancy*
13:00 - 13:20	V. Dimitrievska Ristovska: *Results of testing an algorithm for constructing low-discrepancy sequences over F_b*

14:00 - 18:00	**EXCURSION TO ST. NAUM MONASTERY BY BOAT**
21:00 - 24:00	**BEER PARTY - COURTESY OF SKOPJE BREWARY "SKOPSKA PIVARA "**
	MUSIC ENSAMBLE "PORTAL" FROM "UGD" - ŠTIP

LAST CONFERENCE DAY, 4 JULY

10:00 - 12:00   **Round Table and Panel Discussion**