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Sarah A. Obead, New Jersey Institute of Technology, United States; Hsuan-Yin Lin, Eirik Rosnes, Simula UiB, Norway; Joerg Kliewer, New Jersey Institute of Technology, United States

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Shuqing Chen, Michelle Effros, Victoria Kostina, California Institute of Technology, United States

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Yonatan Gutman, Polish Academy of Sciences, Poland; Adam Śpiewak, University of Warsaw, Poland

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Enrico Paolini, University of Bologna, Italy; Gianluigi Liva, German Aerospace Center, Germany

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Han Mao Kiah, Nanyang Technological University, Singapore; Anshoo Tandon, Mehul Motani, National University of Singapore, Singapore

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Jinming Wen, Jinan University, China; Xiao-Wen Chang, McGill University, Canada; Jian Weng, Jinan University, China

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Peter Boyvalenkov, Institute of Mathematics and Informatics, Bulgarian Academy of Sciences, Bulgaria; Peter Dragnev, Purdue University Fort Wayne, United States; Douglas Hardin, Edward Saff, Vanderbilt University, United States; Maya Stoyanova, Sofia University, Bulgaria

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Jaume del Olmo Alos, Javier R. Fonollosa, Universitat Politècnica de Catalunya, Spain

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Min Jang, Samsung Electronics, Korea (South); Seok-Ki Ahn, Electronics and Telecommunications Research Institute (ETRI), Korea (South); Hongsil Jeong, Kyung-Joong Kim, Seho Myung, Samsung Electronics, Korea (South); Sang-Hyo Kim, Sungkyunkwan University, Korea (South); Kyeongcheol Yang, Pohang University of Science and Technology (POSTECH), Korea (South)

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Aditya Ramamoorthy, Li Tang, Iowa State University, United States; Pascal Olivier Vontobel, The Chinese University of Hong Kong, Hong Kong SAR of China

TH1-R2.2: IRREGULAR PRODUCT CODED COMPUTATION FOR HIGH-DIMENSIONAL MATRIX MULTIPLICATION 1782

Hyeyyeong Park, Jaekyun Moon, Korea Advanced Institute of Science and Technology (KAIST), Korea (South)

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Longyun Guo, Jean Honorio, John Morgan, Purdue University, United States

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Vinay Anant Vaishampayan, City University of New York, United States

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Youngjae Min, Hye Won Chung, Korea Advanced Institute of Science and Technology (KAIST), Korea (South)

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Omer Bilgen, Aaron B. Wagner, Cornell University, United States

TH1-R4.3: TOWARDS AN ALGEBRAIC NETWORK INFORMATION THEORY: DISTRIBUTED LOSSY COMPUTATION OF LINEAR FUNCTIONS 1827

Sung Hoon Lim, Korea Institute of Ocean Science and Technology (KIOST), Korea (South); Chen Feng, University of British Columbia, Canada; Adriano Pastore, CTTC, Canada; Bobak Nazer, Boston University, United States; Michael Gastpar, École polytechnique fédérale de Lausanne (EPFL), Switzerland

TH1-R4.4: VECTOR GAUSSIAN SUCCESSIVE REFINEMENT WITH DEGRADED SIDE INFORMATION 1832

Yinfei Xu, Southeast University, China; Xuan Guang, Nankai University, China; Jian Lu, Southeast University, China

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Mokshay Madiman, University of Delaware, United States; Piotr Nayar, University of Warsaw, Poland; Tomasz Tkocz, Carnegie Mellon University, United States

TH1-R5.2: EQUALITY IN THE MATRIX ENTROPY-POWER INEQUALITY AND BLIND 1842 SEPARATION OF REAL AND COMPLEX SOURCES

Olivier Rioul, Telecom ParisTech, France; Ram Zamir, Tel Aviv University, Israel

TH1-R5.3: UNIFYING THE BRASCAMP-LIEB INEQUALITY AND THE ENTROPY 1847 POWER INEQUALITY

Venkat Anantharam, University of California, Berkeley, United States; Varun Jog, University of Wisconsin - Madison, United States; Chandra Nair, The Chinese University of Hong Kong, Hong Kong SAR of China

TH1-R5.4: EXPONENT TRADE-OFF FOR HYPOTHESIS TESTING OVER NOISY 1852 CHANNELS

Nir Weinberger, Massachusetts Institute of Technology, United States; Yuval Kochman, Hebrew University of Jerusalem, Israel; Michèle Wigger, Telecom ParisTech, France

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Hang Zhang, Georgia Institute of Technology, United States; Martin Slawski, George Mason University, United States; Ping Li, Baidu Inc, United States

TH1-R6.2: CONCENTRATION AND TAIL BOUNDS FOR MISSING MASS 1862

Prafulla Chandra, Andrew Thangaraj, Indian Institute of Technology, Madras, India

TH1-R6.3: PROVABLE SUBSPACE TRACKING WITH MISSING ENTRIES..... 1867

Praneeth Narayanamurthy, Vahid Daneshpajoo, Namrata Vaswani, Iowa State University, United States

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Emanuele Bellini, Florian Caullery, Darkmatter LLC, United Arab Emirates; Philippe Gaborit, Université de Limoges, France; Marc Manzano, Victor Mateu, Darkmatter LLC, United Arab Emirates

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Haoyu Li, Academy of Mathematics and Systems Science, Chinese Academy of Sciences; State Key Laboratory of Cryptology; University of Chinese Academy of Sciences, China; Renzhang Liu, Westone Information Industry INC, China; Qutaibah M. Malluhi, Qatar University, Qatar; Yanbin Pan, Academy of Mathematics and Systems Science, Chinese Academy of Sciences; University of Chinese Academy of Sciences, China; Yongge Wang, University of North Carolina at Charlotte, United States; Tianyuan Xie, Academy of Mathematics and Systems Science, Chinese Academy of Sciences; University of Chinese Academy of Sciences, China

TH1-R7.3: IMPROVED ITERATIVE DECODING OF QC-MDPC CODES IN THE 1882 MCCELIECE PUBLIC KEY CRYPTOSYSTEM

Irina Bocharova, ITMO University, Russia; Thomas Johansson, Lund University, Sweden; Boris Kudryashov, ITMO University, Russia

TH1-R7.4: ON DECODING AND APPLICATIONS OF INTERLEAVED GOPPA CODES..... 1887

Lukas Holzbaur, Hedongliang Liu, Technical University of Munich, Germany; Sven Puchinger, Technical University of Munich, Germany; Antonia Wachter-Zeh, Technical University of Munich, Germany

TH1-R8: CAPACITY COMPUTATION

TH1-R8.1: COMPUTABLE UPPER BOUNDS FOR UNIFILAR FINITE-STATE CHANNELS 1892

Bashar Huleihel, Oron Sabag, Haim Henry Permuter, Ben-Gurion University of the Negev, Israel; Navin Kashyap, Indian Institute of Science, India; Shlomo Shamai (Shitz), Technion - Israel Institute of Technology, Israel

TH1-R8.2: A DETERMINISTIC ALGORITHM FOR THE CAPACITY OF FINITE-STATE CHANNELS 1897

Chengyu Wu, Guangyue Han, University of Hong Kong, Hong Kong SAR of China; Brian Marcus, University of British Columbia, Canada

TH1-R8.3: AN ITERATIVE ALGORITHM TO OPTIMIZE THE AVERAGE PERFORMANCE OF MARKOV CHAINS WITH FINITE STATES 1902

Ryusei Fujita, Ken-ichi Iwata, University of Fukui, Japan; Hirosuke Yamamoto, University of Tokyo, Japan

TH1-R8.4: AN UPPER BOUND ON THE NUMBER OF MASS POINTS IN THE CAPACITY ACHIEVING DISTRIBUTION FOR THE AMPLITUDE CONSTRAINED ADDITIVE GAUSSIAN CHANNEL 1907

Semih Yagli, Alex Dytso, H. Vincent Poor, Princeton University, United States; Shlomo Shamai (Shitz), Technion - Israel Institute of Technology, Israel

TH1-R9: ALGEBRAIC CODING THEORY

TH1-R9.1: THE PUNCTURED DODECACODE IS UNIFORMLY PACKED 1912

Denis S. Krotov, Sobolev Institute of Mathematics, Russia; Patrick Solé, CNRS / Aix-Marseille University, France

TH1-R9.2: ON DUAL CODES IN THE DOOB SCHEMES 1917

Denis S. Krotov, Sobolev Institute of Mathematics, Russia

TH1-R9.3: SPECTRAL BOUNDS FOR QUASI-TWISTED CODES 1922

Martianus Frederic Ezerman, San Ling, Buket Özkaya, Jareena Tharnnukhroh, Nanyang Technological University, Singapore

TH1-R9.4: SPEEDING UP DECODING A CODE WITH A NON-TRIVIAL AUTOMORPHISM GROUP UP TO AN EXPONENTIAL FACTOR 1927

Rodolfo Canto-Torres, Jean-Pierre Tillich, INRIA, France

TH2-R1: POLAR CODES III

TH2-R1.1: ON CONSTRUCTION OF POLAR SUBCODES WITH LARGE KERNELS 1932

Peter Trifonov, ITMO University, Russia

TH2-R1.2: ON THE POLARIZATION LEVELS OF AUTOMORPHIC-SYMMETRIC CHANNELS 1937

Rajai Nasser, American University of Beirut, Lebanon

TH2-R1.3: DESIGN OF POLAR CODES FOR PARALLEL CHANNELS WITH AN AVERAGE POWER CONSTRAINT 1942

Thomas Wiegart, Tobias Prinz, Fabian Steiner, Peihong Yuan, Technical University of Munich, Germany

TH2-R1.4: IMPROVED HYBRID DESIGN OF POLAR CODES AND MULTI-KERNEL POLAR CODES 1947

Valerio Bioglio, Ingmar Land, Carlo Condo, Huawei Technologies SASU, France

TH2-R2: NETWORK CODING AND BROADCASTING

TH2-R2.1: PROBABILISTIC FORWARDING OF CODED PACKETS ON NETWORKS 1952

B. R. Vinay Kumar, Navin Kashyap, Indian Institute of Science, India

TH2-R2.2: ON THE MINIMUM DELAY OF BLOCK INTERLEAVER FOR BATCHED NETWORK CODES 1957

Hoover H.F. Yin, Ka Hei Ng, Xishi (Nicholas) Wang, Qi Cao, The Chinese University of Hong Kong, Hong Kong SAR of China

TH2-R2.3: A UNIFIED ADAPTIVE RECODING FRAMEWORK FOR BATCHED NETWORK CODING 1962

Hoover H.F. Yin, The Chinese University of Hong Kong, Hong Kong SAR of China; Bin Tang, Nanjing University, China; Ka Hei Ng, The Chinese University of Hong Kong, Hong Kong SAR of China; Shenghao Yang, The Chinese University of Hong Kong, Shenzhen, China; Xishi (Nicholas) Wang, Qiaoqiao Zhou, The Chinese University of Hong Kong, Hong Kong SAR of China

TH2-R2.4: PACKET EFFICIENCY OF BATS CODING ON WIRELESS RELAY NETWORK WITH OVERHEARING 1967

Hoover H.F. Yin, The Chinese University of Hong Kong, Hong Kong SAR of China; Xiaoli Xu, University of Sydney, Australia; Ka Hei Ng, The Chinese University of Hong Kong, Hong Kong SAR of China; Yong Liang Guan, Nanyang Technological University, Singapore; Raymond W. Yeung, The Chinese University of Hong Kong, Hong Kong SAR of China

TH2-R3: NEURAL NETWORKS AND AI

TH2-R3.1: LOCAL GEOMETRY OF CROSS ENTROPY LOSS IN LEARNING ONE-HIDDEN-LAYER NEURAL NETWORKS 1972

Haoyu Fu, The Ohio State University, United States; Yuejie Chi, Carnegie Mellon University, United States; Yinbin Liang, The Ohio State University, United States

TH2-R3.2: AN INFORMATION-THEORETIC EXPLANATION FOR THE ADVERSARIAL FRAGILITY OF AI CLASSIFIERS 1977

Hui Xie, Jirong Yi, Weiyu Xu, Raguh Mudumbai, University of Iowa, United States

TH2-R3.3: DEEP LEARNING AND MARS: DIMENSIONALITY REDUCTION AND RATES OF CONVERGENCE N/A

Michael Kohler, Darmstadt Technical University, Germany; Adam Krzyzak, Concordia University, Canada

TH2-R3.4: AN INFORMATION THEORETIC INTERPRETATION TO DEEP NEURAL NETWORKS 1984

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