2021 International Conference Engineering Technologies and Computer Science (EnT 2021)

Moscow, Russia 18 – 19 August 2021



IEEE Catalog Number: CFP21O02-POD ISBN: 978-1-6654-2675-6

Copyright © 2021 by the Institute of Electrical and Electronics Engineers, Inc. All Rights Reserved

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

*** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.

 IEEE Catalog Number:
 CFP21002-POD

 ISBN (Print-On-Demand):
 978-1-6654-2675-6

 ISBN (Online):
 978-1-6654-2674-9

Additional Copies of This Publication Are Available From:

Curran Associates, Inc 57 Morehouse Lane Red Hook, NY 12571 USA Phone: (845) 758-0400

Fax: (845) 758-2633

E-mail: curran@proceedings.com Web: www.proceedings.com



2021 International Conference Engineering Technologies and Computer Science (EnT)

EnT 2021

Table of Contents

Prefaceix
Conference Organization x
Plenary Reports
Artificial Intelligence as a Post-Stage of Natural Intelligence 3 Yuri M. Baturin (S.I. Vavilov Institute for History of Science and Technology)
Experience in Standardization of Programming Languages for mini- and Microcomputers 7 Sergei Prokhorov (Institute for the History of Science and Technology of Russian Academy of Sciences, Russia)
Women in Computer World of the USSR and Russia
About the Evolution of the Concept of "Artificial Intelligence"
Computer Science
Eligibility Analysis of Different Chaotic Systems Derived from Logistic Map for Design of Cryptographic Components
Limits of "the Self", Boundaries of Personal Space and IT
Forecasting Tools in Practical Applications: Selection and Evaluation Methodology
On Popularization of Scientific Developments and use of free and open Source Software

The Deficiency of "Redline/Greenline" Approach to Risk Management in AI Applications 49 Andrey Kuleshov (Moscow Institute of Physics and Technology), Andrey Ignatiev (MGIMO University; Center for Global IT Cooperation), and Anna Abramova (MGIMO University)
On Construction of bi-Regular Circulant Matrices, Relating to MDS Matrices
Applied Technologies: History and Modernity
Development of Microelectronics in the USA and Russia and Society
Whoever is not with us is Against us: (In commemoration of the 90th anniversary of the Case of the Industrial Party)
Software Localization: from the Past to the Present
The Creation of the Unified Power System of Russia: the Inception
How the Foundations of the Crypto-Economy Methodology were Formed
Virtual 3D Reconstruction of Historical Vehicles: Columbia Electric car and Kulibin's Pedal Carriage
Long-Tail Data-Driven Recommendations - Innovative Solutions for Financial Recommender Systems

Computing Dataflow Architectures: History and Implementation Perspectives Victor Zakharov (Institute of Informatics Problems Federal Research Center "Computer Science and Control" of the Russian Academy of Sciences, Russia), Yury Stepchenkov (Institute of Informatics Problems Federal Research Center "Computer Science and Control" of the Russian Academy of Sciences, Russia), Dmitry Khilko (Institute of Informatics Problems Federal Research Center "Computer Science and Control" of the Russian Academy of Sciences, Russia), and Yury Diachenko (Institute of Informatics Problems Federal Research Center "Computer Science and Control" of the Russian Academy of Sciences, Russia)	98
Social and Educational Aspects of Computer Technology Development	
User-Centred Design in Educational Applications: A Systematic Literature Review	. 105
Social Credit Systems: Prospects and Challenges of Overall Scoring	. 112
The Role of Industry Based Research in Advancing Thermionics Science	. 116
Zinc Electroplating Ekaterina Budreyko (S. I. Vavilov Institute for the History of Science and Technology of the Russian Academy of Sciences, Russian Federation)	. 119
Digital Technologies in Leasing – A new Development Direction of the Russian Market	. 125
Neural Networks as a Motivation for Humanity to Evolve and Survive	. 130
Smart Bracelet: With Handshake Recognition For Information Exchange Oluwatobi Oyinlola (African Center Of Excellence in Internet of Things (ACEIoT), University of Rwanda, Rwanda), Kayalvizhi Jayavel (SRM Institute of Science and Technology, India), and Didacienne Mukanyiligira (African Center Of Excellence in Internet of Things (ACEIoT), University of Rwanda, Rwanda)	. 133
Development of Technologies for using Carbon Dioxide Emissions by Producing Methanol as Prerequisite for the Transformation of Energy	
Improving the Tourists Experiences: Application of Firebase and Flutter Technologies in Mobile Applications Development Process	. 146

Author Index		
--------------	--	--