

2021 International Symposium on Knowledge, Ontology, and Theory (KNOTH 2021)

**Akademgorodok, Novosibirsk, Russia
4 December 2021**



**IEEE Catalog Number: CFP21BP1-POD
ISBN: 978-1-6654-6720-9**

**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:	CFP21BP1-POD
ISBN (Print-On-Demand):	978-1-6654-6720-9
ISBN (Online):	978-1-6654-6719-3

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

CURRAN ASSOCIATES INC.
proceedings
.com



International Symposium “Knowledge – Ontology – Theory” (KNOTH-2021)

Dec 2021, Akademgorodok, Novosibirsk, Russia

12:00 – 12:15 — Lyudmila Massel, Aleksei Massel: <i>Ontologies as a Basis for Constructing Digital Twins In Energy.....</i>	1
12:15 – 12:30 — Ali Raheman, Anton Kolonin, Ben Goertzel, Gergely Hegyközi, Ikram Ansari: <i>Architecture of Automated Crypto-Finance Agent.....</i>	7
12:30 – 12:45 — Dmitry Palchunov: <i>Knowledge Transformation via Different Structures of Concepts and its Application in Argumentation Theory and Case-Based Reasoning.....</i>	11
12:45 – 13:00 — Dmitry Palchunov, Artem Tregubov: <i>Semantic methods of intelligent assistant developing....</i>	17
13:00 – 13:15 — Gulnara Yakhyaeva: <i>Application of the Case Models Restriction for Modeling Argumentation Reasoning.....</i>	23
13:15 – 13:30 — Aleksei Poletaikin, Sergey Sinitsa, Lubov Danilova, Yuliya Shevtsova, Nadezhda Dvurechenskaya: <i>Ontology approach for the intelligent analysis of labor market and educational content matching.....</i>	28
13:30 – 13:45 — Tatyana Krasnova, Alexander Dulesov, Alexander Pozdnyakov, Alexander Vilgelm: <i>Approach for Developing the Monitoring Large-Scale Digital Systems of the Regional Economy.....</i>	34
13:45 – 14:00 — Sergey Gorshkov, Constantin Kondratiev, Roman Shebalov: <i>Ontology-based Question Answering Over Corporate Structured Data.....</i>	39
14:00 – 14:15 — Waqas Ahmed Khan Afridi: <i>An Examination and Critique of the Use of Knowledge Management in Achieving Competitive Advantage in Business and Its Existence in The Middle East Airline Industry: A Case Study of Saudi Airline.....</i>	45
14:15 – 14:30 — Victor Trofimov, Tatiana V. Khranova: <i>Weakly Universal Encoding of Stationary Sources by Symbols of Unequal Durations.....</i>	51
14:30 – 14:45 — Vladimir Zyubin: <i>Software Psychology of Control Software Design and Development.....</i>	54
14:45 – 15:00 — Valeria Gribova, Elena Shalfeeva: <i>Ontological Approach for Creating Viable Intelligent Systems.....</i>	58