

Edge-Centric Video Data Analytics for Smart Assistance Services in Industrial Systems *Nikita Bazhenov, Artur Harkovchuk, Dmitry Korzun*

- <u>presentation slides</u> / video / <u>full article in Thinkmind Digital Library</u> Automated Code Generation of Multi-Agent Interaction for Constructing Semantic Services

Sergei Marchenkov - <u>presentation slides</u> / video / <u>full article in Thinkmind Digital Library</u>

SEMAPRO 2020 SemaNLP Special Track: Semantic Methods for Natural Language Processing Chairs and Coordinators: Claudia Lanza, PhD student and research associate at University of Calabria, Italy | PhD visiting student at Université de Nantes, France Dr. Tim vor der Brück, Lecturer at FFHS (Swiss Distance University of Applied Sciences) | Senior researcher at HSLU

Introduction Claudia Lanza, Tim vor der Brück

- presentation slides / editorial

Introduction Navid Shaghaghi

(Lucerne University of Applied Sciences and Arts)

Word Sense Disambiguation Using Graph-based Semi-supervised Learning *Rie Yatabe, Minoru Sasaki* - <u>presentation slides</u> / video / <u>full article in Thinkmind Digital Library</u> Large Scale Legal Text Classification Using Transformer Models

Zein Shaheen, Gerhard Wohlgenannt, Erwin Filtz - <u>presentation slides</u> / video / <u>full article in Thinkmind Digital Library</u>

Towards Using Logical Reasoning for Assessing the Structure and State of a Human Debate Helmut Horacek - <u>presentation slides</u> / <u>video</u> / <u>full article in Thinkmind Digital Library</u> Employing Bert Embeddings for Customer Segmentation and Translation Matching *Tim vor der Brück*

 <u>presentation slides</u> / <u>video</u> / <u>full article in Thinkmind Digital Library</u>
 AMBIENT 2020 ACRE Special Track: Ambient Computing for Rural Environments Chair and Coordinator: Professor Dr. Navid Shaghaghi, Santa Clara University, USA

presentation slides / editorial
 Long-Range Data Transmission for Online Water Quality Monitoring at Rural Area in Sg. Tembeling, Pahang [PRESENTATION]
 Norashikin M. Thamrin, Nik Nor Liyana Nik Ibrahim, Mohamad Farid bin Misnan, Navid Shaghaghi
 presentation slides / video

Beau Hsia, Derrick Wang, Navid Shaghaghi, Zhiwen Zhang - <u>presentation slides</u> / <u>video</u> / <u>full article in Thinkmind Digital Library</u> SU 2.0: A Marketable Low-Power Wireless Sensing Unit for Hydration Automation [PRESENTATION]

Navid Shaghaghi, Nicholas Kniveton, Jesse Mayer, Will Tuttle, Peter Ferguson

<u>presentation slides</u> / <u>video</u>
 GluMo: A Noninvasive Blood Glucose Monitor
 Ben Tan, Peter Ferguson, Teddy Nguyen, Hannah Albright, Navid Shaghaghi, Zhiwen Zhang

<u>presentation slides</u> / <u>video</u> / <u>full article in Thinkmind Digital Library</u>
 DATA ANALYTICS 2020 FTRM Special Track: FinTech Risk Management
 LIVE Zoom Presentation
 Monday, October 26, 2020 at 4:00pm Rome Time

Meeting ID: <u>https://us02web.zoom.us/j/87321587918?pwd=Q2htYmpGZENCSVhaekFrOEVPakp3Zz09</u> Chairs and Coordinators: Dr. Arianna Agosto, Post-doctoral Researcher, Department of Economics and Management, University of Pavia, Italy Dr. Paolo Giudici, Professor of Statistics, FinTech laboratory, University of Pavia, Italy

Introduction Arianna Agosto, Paolo Giudici - <u>presentation slides</u> / <u>editorial</u>

BOxy: A Cost-Effective Blood Oximeter

A New Proposal to Improve Credit Scoring Model Predictive Accuracy Arianna Agosto, Paolo Giudici, Emanuela Raffinetti - presentation slides / video / <u>full article in Thinkmind Digital Library</u>

A Data-driven Approach to Measuring Financial Soundness Throughout the World [PRESENTATION] Alessandro Bitetto, Paola Cerchiello, Charilaos Mertzanis, Ernst Wit - presentation slides / video

Seasonality Modeling Tthrough LSTM Network in Inflation-Indexed Swaps Pier Giuseppe Giribone - presentation slides / video / full article in Thinkmind Digital Library Lost in Translation: Soft Information, Sentiment and Lending Decisions [PRESENTATION] Paola Cerchiello, Stefano Filomeni, Alessandra Tanda, Anca Mirela Toma - presentation slides / video Unity is Strength? Credit Risk in Corporate Networks [PRESENTATION] Arianna Agosto, Alessandra Tanda - presentation slides / video GLOBAL HEALTH 2020 eHEALTH Special Track: Patient-centric eHealth Services Chair: Prof. Dr. Dimitar Tcharaktchiev, Department of Medical Informatics, Medical University-Sofia, University Hospital of Endocrinology, Bulgaria Coordinator: Prof. Dr. Evgeniy Krastev, Faculty of Informatics and Informatics, Sofia University St. Kliment Ohridsky, Bulgaria Introduction Dimitar Tcharaktchiev, Evgeniy Krastev - presentation slides / editorial Semantic Interoperability of Medical Information Systems and Scientific Repositories Dimitar Tcharaktchiev, Evgeniy Krastev, Emanuil Markov, Ivan Ivanov - presentation slides / video / full article in Thinkmind Digital Library Management of Clinical Concepts in Bulgarian Healthcare Using openEHR Specifications Simeon Abanos, Evgeniy Krastev, Dimitar Tcharaktchiev - presentation slides / demo video / full article in Thinkmind Digital Library Modelling and Management of ePrescriptions on openEHR Platform in Bulgarian eHealth Petko Kovachev, Evgeniy Krastev - presentation slides / demo video 1 / demo video 2 / full article in Thinkmind Digital Library Medical Requirements for Selecting Local Picture Archiving and Communications Systems Influences from Information Technologies and Business Models Ivan Ivanov, Vesselin Gueorguiev, Dimitar Tcharaktchiev, Desislava Georgieva - presentation slides / video / full article in Thinkmind Digital Library CYBER 2020 SCADD Special Track: Side Channel Attacks, Detection & Defenses Chairs and Coordinators: Prof. Dr. Khurram Bhatti, Associate Professor, Information Technology University (ITU), Lahore, Pakistan Dr. Maria Mushtaq, Scientific Researcher, LIRMM -CNRS, University of Montpellier, France Introduction Khurram Bhatti, Maria Mushtaq - presentation slides / editorial PCache: Permutation-based Cache to Counter Eviction-based Cache-based Side-Channel Attacks Muhammad Asim Mukhtar, Muhammad Khurram Bhatti, Guy Gogniat - presentation slides / video / full article in Thinkmind Digital Library Efficient AES Implementation for Better Resource Usage and Performance of IoTs Umer Farooq, Maria Mushtaq, Muhammad Khurram Bhatti - presentation slides / video / full article in Thinkmind Digital Library Challenges of Using Performance Counters in Security Against Side-Channel Leakage Maria Mushtaq, Pascal Benoit, Umer Farooq

Regular Tracks

- presentation slides / video / full article in Thinkmind Digital Library

- presentation slides / video / full article in Thinkmind Digital Library

Faiq Khalid, Muhammad Abdullah Hanif, Muhammad Shafique - presentation slides / video / <u>full article in Thinkmind Digital Library</u>

Mahya Morid Ahmadi, Faiq Khalid, Muhammad Shafique

Side Channel Attacks on RISC-V Processors: Current Progress, Challenges, and Opportunities

Exploiting Vulnerabilities in Deep Neural Networks: Adversarial and Fault-Injection Attacks

UBICOMM 2020, The Fourteenth International Conference on Mobile Ubiquitous Computing, Systems, Services and Technologies Status-aware and SLA-aware QoS Routing Model for SDN Transport Network Atefeh Meshinchi, Ranwa Al Mallah, Alejandro Quintero - presentation slides / video / full article in Thinkmind Digital Library QoS-Aware Adaptive Resource Allocation Framework in the Integrated SDN Transport and IoT Atefeh Meshinchi, Ranwa Al-Mallah, Alejandro Quintero - presentation slides / video / full article in Thinkmind Digital Library Identifying Long-Term Risks of the Internet of Things Erik Buchmann, Andreas Hartmann - presentation slides / video / full article in Thinkmind Digital Library The Need of Proper Programming Models for CPS Martin Richter, Christine Jakobs, Matthias Werner - presentation slides / video / full article in Thinkmind Digital Library RefRec: Indoor Positioning Using a Camera Recording Floor Reflections of Lights Shota Shimada, Hiromichi Hashizume, Masanori Sugimoto - presentation slides / video / full article in Thinkmind Digital Library A Handover Algorithm based on Collaboration for New Mobile Communications Ying-Hong Wang, Yi-Chia Tung - presentation slides / video / full article in Thinkmind Digital Library A Study on the Security of Authentication Systems Otuekong Umoren, Hector Marco-Gisbert - presentation slides / video / full article in Thinkmind Digital Library Security of Blockchain Consensus Protocols Austine Onwubiko, Sarwar Sayeed, Hector Marco-Gisbert - presentation slides / video / full article in Thinkmind Digital Library

ADVCOMP 2020, The Fourteenth International Conference on Advanced Engineering Computing and Applications in Sciences The F-Measure Paradox *Tim vor der Brück* - presentation slides / video / full article in Thinkmind Digital Library Detecting Suicide Risk Through Twitter Javier Fabra, Ana Belén Martínez-Martínez, Yolanda López-Del-Hoyo, María Cruz Pérez-Yus, Bárbara Oliván-Blázquez - presentation slides / video / full article in Thinkmind Digital Library Adaptive Multimedia Indexing Using Naïve Bayes Classification *R. F. Ma, Clement Leung, Jiayan Zhang* - presentation slides / video / full article in Thinkmind Digital Library

SEMAPRO 2020, The Fourteenth International Conference on Advances in Semantic Processing

Performance Analysis and Optimization of Semantic Queries Philipp Hertweck, Erik Kristiansen, Tobias Hellmund, Jürgen Moßgraber - presentation slides / video / full article in Thinkmind Digital Library Enabling System Artifacts Reuse Through the Semantic Representation of EngineeringModels: a Case Study of Simulink Models Roy Mendieta, Eduardo Cibrián, Jose María Álvarez-Rodríguez, Juan Llorens - presentation slides / video / full article in Thinkmind Digital Library Properties of Semantic Coherence Measures - Case of Topic Models Pirkko Pietiläinen - presentation slides / video / full article in Thinkmind Digital Library Pynsett: a Programmable Relation Extractor Alberto Cetoli - presentation slides / video / full article in Thinkmind Digital Library Querying the Semantic Web for Concept Identifiers to Annotate Research Datasets André Langer, Christoph Göpfert, Martin Gaedke - presentation slides / video / full article in Thinkmind Digital Library Using RESTFul API and SHACL to Invoke Executable Semantics in the Context of Core Software Ontology Xianming Zhang - presentation slides / video / full article in Thinkmind Digital Library Toward a Semantic Representation of the Joconde Database Jean-Claude Moissinac, Bastien Germain, Piyush Wadhera, François Rouzé - presentation slides / video / full article in Thinkmind Digital Library The Semantic Web in the Internet of Production: A Strategic Approach with Use-Case Examples Johannes Lipp, Katrin Schilling - presentation slides / video / full article in Thinkmind Digital Library

AMBIENT 2020, The Tenth International Conference on Ambient Computing, Applications, Services and Technologies A Systematic Review of Ambient Display Modalities, Physical Forms and Interactivity Ben Shelton, Keith Nesbitt - <u>presentation slides</u> / video / <u>full article in Thinkmind Digital Library</u> Social Interactions of Artificial Ventilated Patients in Intensive Care – an Example of a Monitoring System Jan Hendrik Röhl, Alexander Gerka, Rebecca Diekmann, Andreas Hein - <u>presentation slides</u> / video / <u>full article in Thinkmind Digital Library</u> Effects of Indoor Environmental Quality on Concentration

EMERGING 2020, The Twelfth International Conference on Emerging Networks and Systems Intelligence Dynamic Content Adaptation for Timely Delivery of Critical Data under Network Congestion Jia Lei Du, Stefan Linecker, Rodrigo Pommot, Reinhard Mayr - presentation slides / video / full article in Thinkmind Digital Library Semiconductor Defect Classification

Terence Sweeney, Sonya Coleman, Dermot Kerr - <u>presentation slides</u> / <u>video</u> / <u>full article in Thinkmind Digital Library</u>

Salla Muuraiskangas, Heidi Similä, Johanna Kallio, Pauli Räsänen, Kaisa Vehmas

- presentation slides / video / full article in Thinkmind Digital Library

DATA ANALYTICS 2020, The Ninth International Conference on Data Analytics
Breast Cancer Dataset Analytics *Kevin Diami, Noha Hazzazi*presentation slides / video / full article in Thinkmind Digital Library

A Data-Driven Approach for Eye Disease Classification in Relation to Demographic and Weather Factors Using Computational Intelligence Software
Amna Alalawi, Les Sztandera, Parth Lalakia, Anthony Vipin Das, Gumpili Prashanthi

presentation slides / video / full article in Thinkmind Digital Library

Comparing Variable Importance in Prediction of Silence Behaviours Between Random Forest and Conditional Inference Forest Models.
Stephen Barrett, Geraldine Gray, Colm McGuinness, Michael Knoll

presentation slides / video / full article in Thinkmind Digital Library

Detecting Users from Website Sessions: A Simulation Study *Corné de Ruijt, Sandjai Bhulai* - <u>presentation slides</u> / <u>video</u> / <u>full article in Thinkmind Digital Library</u> Online Feature Selection for Semantic Image Segmentation *Rishav Rajendra, Chris J. Michael, Elias Ioup, Md Tamjidul Hoque, Mahdi Abdelguerfi*

 <u>presentation slides</u> / video / <u>full article in Thinkmind Digital Library</u>
 DCGAN-Based Data Augmentation for Enhanced Performance of Convolution Neural Networks Christian Reser, Christoph Reich
 <u>presentation slides</u> / video / <u>full article in Thinkmind Digital Library</u>
 Big Data Monetization: Discoveries from a Systematic Literature Review

Domingos S. M. P. Monteiro, Luciano de A. Monteiro, Felipe S. Ferraz, Silvio R. L. Meira
<u>presentation slides</u> / video / <u>full article in Thinkmind Digital Library</u>
Hotel Quality Evaluation from Online Reviews Using Fuzzy Pattern Matching and Fuzzy Cognitive Maps Alexandros Bousdekis, Dimitris Kardaras, Stavroula Barbounaki
<u>presentation slides</u> / video / <u>full article in Thinkmind Digital Library</u>
Gendered Data in Falls Prediction Using Machine Learning

Leeanne Lindsay, Sonya Coleman, Dermot Kerr, Brian Taylor, Anne Moorhead - <u>presentation slides</u> / <u>video</u> / <u>full article in Thinkmind Digital Library</u> Technical Indicators for Hourly Energy Market Trading Catherine McHugh, Sonya Coleman, Dermot Kerr

<u>presentation slides</u> / <u>video</u> / <u>full article in Thinkmind Digital Library</u>
 A Comprehensive Study of Recent Metadata Models for Data Lake
 Redha Benaissa, Omar Boussaid, Aicha Mokhtari, Farid Benhammadi
 <u>presentation slides</u> / video / <u>full article in Thinkmind Digital Library</u>

An Intelligent Recommender System for E-learning Process Personalization: A Case Study in Maritime Education Stefanos Karnavas, Alexandros Bousdekis, Stavroula Barbounaki, Dimitris Kardaras - <u>presentation slides</u> / video / <u>full article in Thinkmind Digital Library</u>

Hybrid Transactional and Analytical Processing Databases: A Systematic Literature Review Daniel Hieber, Gregor Grambow - <u>presentation slides</u> / video / <u>full article in Thinkmind Digital Library</u>

Lessons Learned from the Development of Mobile Applications for Fall Detection

Ítalo Linhares, Rossana Andrade, Evilasio Costa Junior, Pedro Oliveira, Breno Oliveira, Paulo Aguilar

GLOBAL HEALTH 2020, The Ninth International Conference on Global Health Challenges Cancer Caregivers' Needs for Their Well-Being in the Information Era Ah Choo Koo, Peter Charles Woods, Tenku Putri Norishah Tenku Shariman, Kok Yew Ang, Sian Hoon Teoh, Weng Ping Chin - presentation slides / video / full article in Thinkmind Digital Library

- presentation slides / video / full article in Thinkmind Digital Library Pandemics in Hawai'i: 1918 Influenza and COVID-19 Victoria Kala, Katherine Guo, Elizabeth Swantek, Alan Tong, Monique Chyba, Yuriy Mileyko, Chris Gray, Thomas Lee, Alice Koniges - presentation slides / video / full article in Thinkmind Digital Library Epidemiological Model of the Spread of COVID-19 in Hawaii's Challenging Fight Against the Disease Monique Chyba, Yuriy Mileyko, Oleksandr Markovichenko, Richard Carney, Alice Koniges - presentation slides / video / full article in Thinkmind Digital Library CYBER 2020, The Fifth International Conference on Cyber-Technologies and Cyber-Systems Cyber and Emergent Technologies: Current and Future Ramifications Joshua Sipper - presentation slides / video / full article in Thinkmind Digital Library / recorded live presentation The Cyber Microbiome and the Cyber Meta-reality Joshua Sipper - presentation slides / video / full article in Thinkmind Digital Library / recorded live presentation Dismissing Poisoned Digital Evidence from Blockchain of Custody David Billard - presentation slides / video / full article in Thinkmind Digital Library / recorded live presentation A Privacy-Preserving Architecture for the Protection of Adolescents in Online Social Networks Markos Charalambous, Petros Papagiannis, Antonis Papasavva, Pantelitsa Leonidou, Rafael Constaninou, Lia Terzidou, Theodoros Christophides, Pantelis Nicolaou, Orfeas Theofanis, George Kalatzantonakis, Michael Sirivianos - presentation slides / video / full article in Thinkmind Digital Library Resilient Communications Availability Inverting the Confidentiality, Integrity, and Availability Paradigm Steve Chan - presentation slides / video / full article in Thinkmind Digital Library Mitigation Factors for Multi-domain Resilient Networked Distributed Tessellation Communications Steve Chan - presentation slides / video / full article in Thinkmind Digital Library Virtual Private Blockchains: Security Overlays for Permissioned Blockchains. Samuel Onalo, Deepak Gc, Eckhard Pfluegel - presentation slides / video / full article in Thinkmind Digital Library Security Requirement Modeling for a Secure Local Energy Trading Platform Yasamin Mahmoodi, Christoph Groß, Sebastian Reiter, Alexander Viehl, Oliver Bringmann - presentation slides / video / full article in Thinkmind Digital Library Analyzing Power Grid, ICT, and Market Without Domain Knowledge Using Distributed Artificial Intelligence Eric Veith, Stephan Balduin, Nils Wenninghoff, Martin Tröschel, Lars Fischer, Astrid Nieße, Thomas Wolgast, Richard Sethmann, Bastian Fraune, Torben Woltjen - presentation slides / video / full article in Thinkmind Digital Library GS 007 - What Auditors are Looking for? : 'Controls and Risk Life Cycle Framework' Noriel Gutierrez Chavez - <u>presentation slides</u> / video / full article in Thinkmind Digital Library Enhance IoT System Performance with Blockchain: An Overview [PRESENTATION] Xing Liu - <u>presentation slides</u> / video Fast Electronic Identification at Trust Substantial Level using the Personal Online Bank Account Michael Massoth, Sam Louis Ahier - presentation slides / video / full article

On Site Recorded Live Presentations
Cyber and Emergent Technologies: Current and Future Ramifications
Joshua Sipper
The Cyber Microbiome and the Cyber Meta-reality
Joshua Sipper

Dismissing Poisoned Digital Evidence from Blockchain of Custody

Farewell Message - presentation slides

David Billard

Photos from Nice, sent by Tim vor der Brück, Joshua Sipper, and David Billard



Copyright (c) 2006-2020, IARIA