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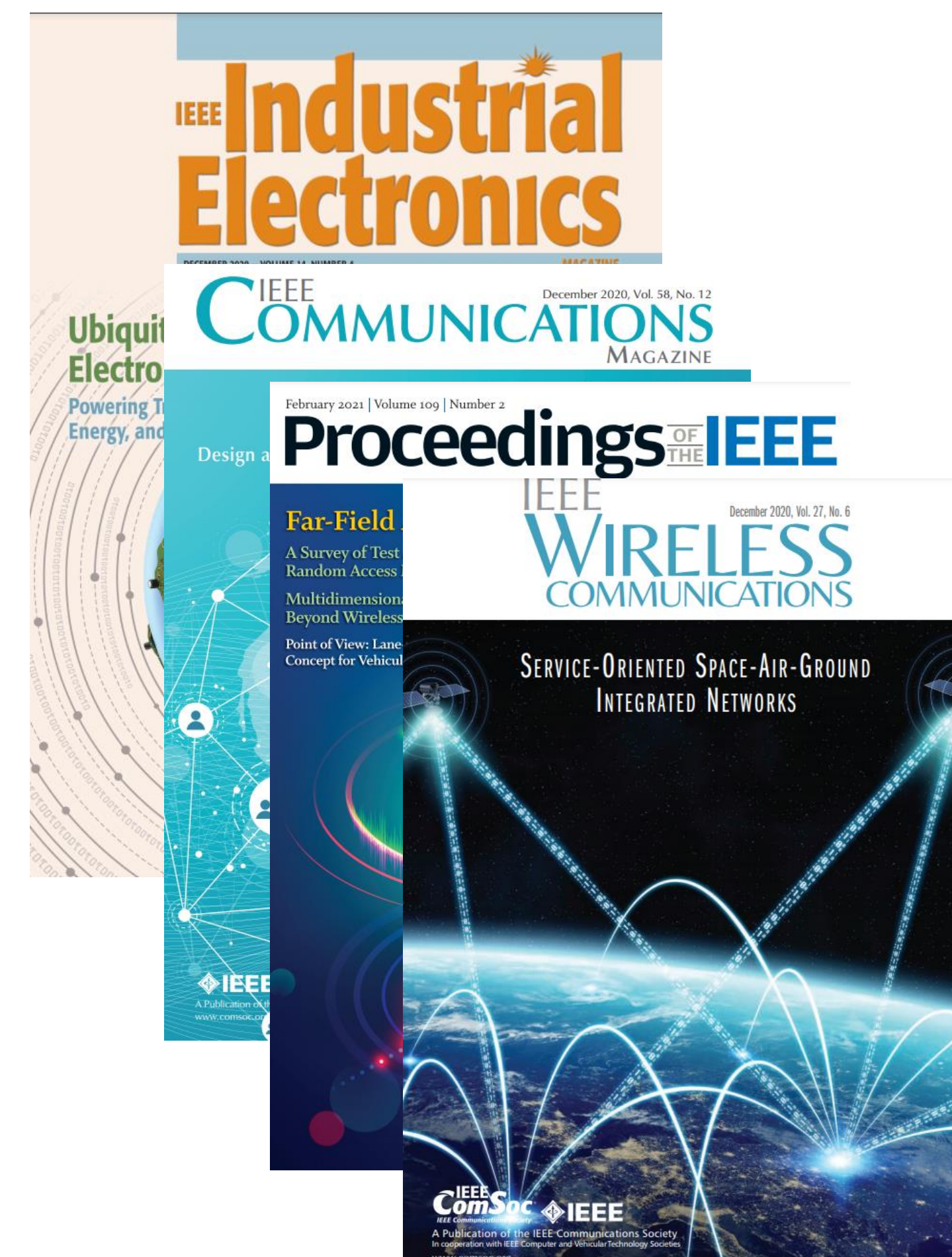
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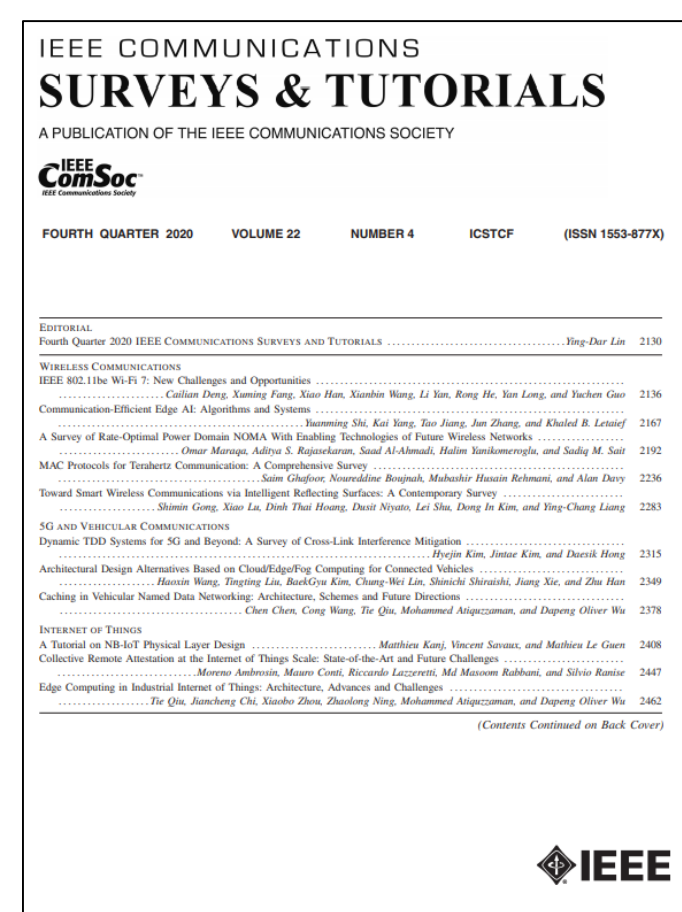
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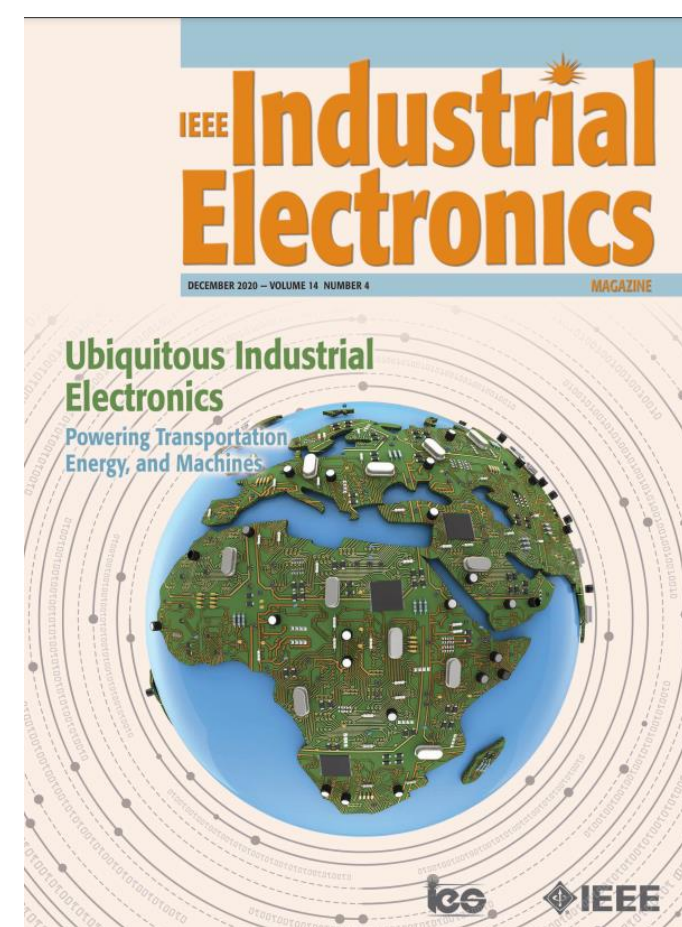


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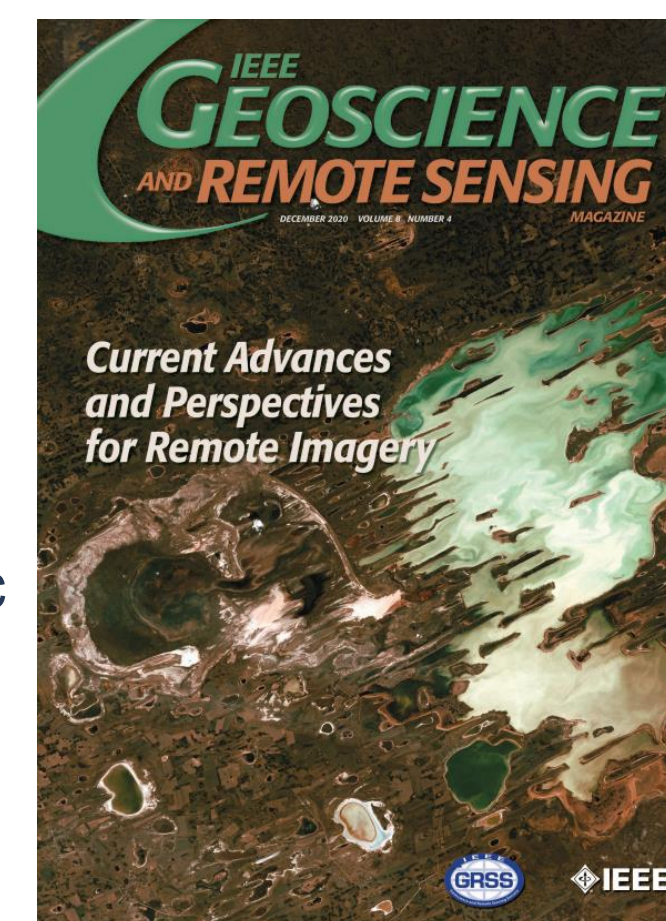


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IEEE TRANSACTIONS ON
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IEEE Computational Intelligence Society
FEBRUARY 2021 VOLUME 25 NUMBER 1 ITEVFS (ISSN 1089-776X)

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- 269-2019 - IEEE Standard for Measuring Electroacoustic Performance of Communication Devices
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An Analysis of the Benefits and Difficulties of Aerial Magnetic Vector Navigation

Aaron Joseph Canciani, Christopher J. Brennan

Recent successful flight tests have demonstrated scalar magnetic anomaly navigation to be a viable GPS alternative navigation system. These flight tests matched magnetic field measurements to maps of the Earth's crustal magnetic field in order to navigate. Scalar magnetic navigation uses only the magnetic field intensity, and direction, in order to navigate. While it appears obvious to extend aerial magnetic navigation to use the full vector field, in practice there are substantial obstacles to doing so. This article explores the key challenges of magnetic vector navigation including current sensor limitations, lack of high frequency magnetic vector maps of the Earth's crust, and proper integration of the magnetic data with an inertial navigation system. In overcoming these challenges several key benefits of magnetic vector navigation over scalar magnetic navigation become apparent, including modestly improved navigation accuracy and greatly improved platform attitude.

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Aaron Joseph Canciani, Christopher J. Brennan, All Authors

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Abstract

Recent successful flight tests have demonstrated scalar magnetic anomaly navigation to be a viable GPS-alternative navigation system. These flight tests matched magnetic field measurements to maps of the Earth's crustal magnetic field in order to navigate. Scalar magnetic navigation uses only the magnetic field intensity, not direction, in order to navigate. While it appears obvious to extend aerial magnetic navigation to use the full vector field, in practice there are substantial obstacles to doing so. This article explores the key challenges of magnetic vector navigation including current sensor limitations, lack of high frequency magnetic vector maps of the Earth's crust, and proper integration of the magnetic data with an inertial navigation system. In overcoming these challenges several key benefits of magnetic vector navigation over scalar magnetic navigation become apparent, including modestly improved navigation accuracy and greatly improved platform attitude.

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II. Creating High Resolution Vector Maps

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IV. Vector Magnetic Navigation Simulations

V. Vector Versus Scalar MagNav TradeSpace

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Авторы

Miltiadis D. Lytras; Anna Visvizi; Akila Sarirete; Miguel Torres-Ruiz; Tugrul U. Daim; All Authors

Аннотация

Abstract:
The future generation of smart cities is a very timely and attractive topic for the research community worldwide. The evolution of this generation is oriented toward providing innovative services and policymaking to guarantee the well-being of citizens. Research on smart cities is maturing and the question of securing the well-being of cities' inhabitants is increasingly attracting the attention of researchers, practitioners, and policymakers. Considering the challenges and opportunities cities/urban spaces generate, today the imperative is to examine how targeted research and cutting-edge innovation can be effectively communicated to all stakeholders. Thus, synergies emerging at the research-innovation-policymaking nexus can be exploited and city dwellers' well-being can be enhanced. Pervasive computing, big data analytics, crowdsourcing, and other timely technologies, including user behavior, brand popularity, recommender systems, and social media analytics, bear the promise and potential that viable solutions to key problems and challenges specific to the future generation of smart cities will be found. The objective of this Special Section in IEEE ACCESS is to examine this promise and potential from a variety of complementary interdisciplinary perspectives, including computing/ ICT, political economy, public policy, innovation, and entrepreneurship.

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Topic: Future Generation Smart Cities Research—Part II: Services, Applications, Case Studies, and Policymaking Considerations For Well-Being

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IEEE ACCESS SPECIAL SECTION EDITORIAL: FUTURE GENERATION SMART CITIES RESEARCH—PART II: SERVICES, APPLICATIONS, CASE STUDIES, AND POLICYMAKING CONSIDERATIONS FOR WELL-BEING

The future generation of smart cities is a very timely and attractive topic for the research community worldwide. The evolution of this generation is oriented toward providing innovative services and policymaking to guarantee the well-being of citizens. Research on smart cities is maturing and the question of securing the well-being of cities' inhabitants is increasingly attracting the attention of researchers, practitioners, and policymakers. Considering the challenges and opportunities cities/urban spaces generate, today the imperative is to examine how targeted research and cutting-edge innovation can be effectively communicated to all stakeholders. Thus, synergies emerging at the research-innovation-policymaking nexus can be exploited and city dwellers' well-being can be enhanced. Pervasive computing, big data analytics, crowdsourcing, and other timely technologies, including user behavior, brand popularity, recommender systems, and social media analytics, bear the promise and potential that viable solutions to key problems and challenges specific to the future generation of smart cities will be found. The objective of this Special Section in IEEE ACCESS is to examine this promise and potential from a variety of complementary interdisciplinary perspectives, including computing/ ICT, political economy, public policy, innovation, and entrepreneurship.

Nowadays, the smart city research agenda needs to feed into the policy-design and policymaking processes for transforming cities (item 1) in the Appendix). Although ICT integration is one of the core determinants of smart city development, stakeholder engagement is a critical component for the successful implementation of smart cities. Smart city projects involve various city stakeholders such as public, private, and civic, which all need to collaborate and innovate together (item 2) in the Appendix). The future generation of smart cities and the future of cities is "smart," and there are various commercial partnerships and research organizations globally trying to create smart city applications. However, the complex dynamics where different stakeholders' interests meet and collide can hinder efforts in the area of replication and scaling up.

In the context of the future generation of smart cities, and taking into consideration the analysis of different research proposals that were submitted and published in the previous Special Section, we were envisioning the creation of new knowledge to build more resilient infrastructure and foster innovation focused on Education 4.0 and Industry 4.0. On the other hand, this new generation should be centered on the real sustainability of cities and, particularly, their communities. In this sense, citizen-centric smart city initiatives make cities and human settlements inclusive, resilient, and sustainable. In addition, initiatives regarding climate action are oriented toward implementing ICT strategies for carbon reduction, energy, and mobility projects in cities to raise awareness and human and institutional capacity on climate change mitigation, adaptation, and impact reduction.

Summing up the general perception according to the "state-of-the-art" with respect to smart cities, the main perspectives and challenges in future research trends are identified by three key directions: 1) socio-technical approaches to directly influence smart cities, 2) integrating new knowledge-sharing perspective from smart cities to communities, and 3) the ICT development of organizational learning capabilities for the citizens.

Thus, these are emerging and interlinked issues of smart city development and present a conceptual approach for improving smart city knowledge management scopes. In this regard, smart cities have multi-dimensional components such as ICT applications, citizen engagement, and governance, which have to operate together to spread out the potential and empower the cities. Here, the role of citizens is extremely important to ensure they imbibe supportive attitudinal behaviors for successful smart city projects.

The nature of technology adoption is taken into consideration to assist cities in undergoing socio-technical transitions and becoming smart cities. By adopting ICT as part of their service provision, cities are able to integrate the technology to generate solutions in different fields. Thus, the significance of technological visioning has originated that several countries

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Publication Year: 2021, Page(s): 7 - 12
Abstract (html) (313 Kb)
- Improving Perceived QoS of Delay-sensitive Video Against A Weak Last-mile: A Practical Approach
Abhijan Bhattacharyya; Madhurima Ganguly; Ashis Sau
Publication Year: 2021, Page(s): 13 - 18
Abstract (html) (581 Kb)

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Bitcoin Data Analytics: Scalable techniques for transaction clustering and embedding generation

Publisher: IEEE | Cite This | PDF

Raj Sanjay Shah; Ashutosh Bhatia; Atith Gandhi; Shray Mathur | All Authors

Abstract: Bitcoin provides pseudo-anonymity to its users, leading to many transactions related to illicit activities. The advent of mixing services like OnionBC, Bitcoin Fog, and Blockchain.info has allowed users to increase their anonymity further. This paper tackles the pseudo-anonymity of the Bitcoin blockchain by developing a scalable spark-based framework to find patterns in the transaction data. The efficacy of the framework is demonstrated by performing exploratory analysis. Furthermore, the paper shows the capabilities of bitcoin-based graph representations and addresses the issue of user profiling based on unsupervised learning approaches for analysing Bitcoin transactions and users. The authors convert the transaction graph of the Bitcoin data to contain only Wallet-IDs and generate graph embeddings using Variational Graph Autoencoder [1]. Additionally, the authors use explainable-AI techniques and Kohonen self-organizing maps to visualize and understand the results obtained from the unsupervised learning methods.

Published in: 2021 International Conference on COMMunication Systems & NETWORKS (COMSNETS)

Date of Conference: 5-9 Jan. 2021 | DOI: 10.1109/COMSNETS51098.2021.9352922

Date Added to IEEE Xplore: 17 February 2021 | Publisher: IEEE

ISBN Information: | Conference Location: Bangalore, India

ISSN Information: | Electronic ISSN: 2155-2509 | Print on Demand (PoD) ISSN: 2155-2487

SECTION I. Introduction

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The screenshot shows the IEEE XPLORE Digital Library search interface. At the top, there is a search bar with a dropdown menu set to 'All'. The search term 'Machine Learning' is entered in the search bar. Below the search bar, a list of search results is displayed, including 'Machine Learning and Cybernetics, (ICMLC) International Conference on Machine Learning for Signal Processing, IEEE Workshop on Machine Learning and Applications (ICMLA), International Conference on Machine Learning and Data Engineering (iCMLDE), International Conference on Machine Learning, Big Data and Business Intelligence (MLBDBI), International Conference on Machine Learning for CAD (MLCAD), ACM/IEEE Workshop on Machine Learning in High Performance Computing Environments (MLHPC), IEEE/ACM Workshop on Machine Learning on Edge in Sensor Systems (SenSys-ML), IEEE Second Workshop on Machine Learning Techniques for Software Quality Evaluation (MaLTesQuE), IEEE Workshop on Machine Learning in HPC Environments (MLHPC), Workshop on Machine Learning, Big Data, Cloud and Parallel Computing (COMITCon), International Conference on'.

Below the search bar, the 'Featured Authors' section is visible. It includes a profile for Tony Quek (Singapore) and a profile for Marios Kountouris (France).

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The screenshot shows a search interface with a dark blue background. A red dashed box highlights the search area. On the left, there is a dropdown menu labeled 'Authors' with a yellow triangle pointing down. To its right is a text input field containing 'Mohammad'. Further right is another text input field containing 'Jamshidi'. To the right of this second field is a yellow search button with a magnifying glass icon. Below the search fields, the text 'ADVANCED SEARCH' is visible.

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Страница автора

The screenshot shows the author profile for Mohammad (Behdad) Jamshidi. The page is annotated with red dashed boxes and arrows pointing to various sections, with Russian labels on the left and right sides.

Left-side annotations:

- Темы публикаций (Publication Topics)
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Right-side annotations:

- Публикации по годам (Publications by Year)
- Соавторы (Co-authors)
- Публикации автора (Author Publications)

Author Profile:

- Name:** Mohammad (Behdad) Jamshidi
- Affiliation:** Regional Innovation Centre for Electrical engineering (RICE), University of West Bohemia, Pilsen, Czech Republic
- Publications:** 13
- Co-Authors:** Zhila Alibeigi, Neda Alibeigi, Nima Bayat-Makou, Mohammad Behdad Jamshidi, Mojgan Dehghani

Publication Topics: fuzzy reasoning, feedforward neural nets, fuzzy neural nets, UHF power amplifiers, adaptive control, band-stop filters, banking, behavioural sciences computing, bioinformatics, cognition, deep learning (artificial)

Biography: Mohammad (Behdad) Jamshidi received the Associate's degree in electronics from the Shamsipour Technical and Vocational College (former American College), Tehran, Iran, in 2005, the B.Sc. degree in telecommunication engineering from the University of Applied Science and Technology, Shiraz, Iran, in 2008, and the M.Sc. degree in mechatronics engineering, graduated as the Third Best Student, from Islamic Azad University (IAU), South-Tehran Branch, Tehran, in 2011. He is currently pursuing the Ph.D. degree with the Department of Electromechanics and Power Electronics (KEV), University of West Bohemia (UWB) in Pilsen, Czech Republic. From 2011 to 2019, he was a Senior Researcher with the Young Researchers and Elite Club, IAU. From 2012 to 2017, ... Show More

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ADVANCED SEARCH

[Nonlinear vector prediction using feed-forward neural networks](#) 
S.A. Rizvi; Lin-Cheng Wang; N.M. Nasrabadi
[IEEE Transactions on Image Processing](#)
Year: 1997 | Volume: 6, Issue: 10 | Journal Article | Publisher: IEEE
Cited by: Papers (10)

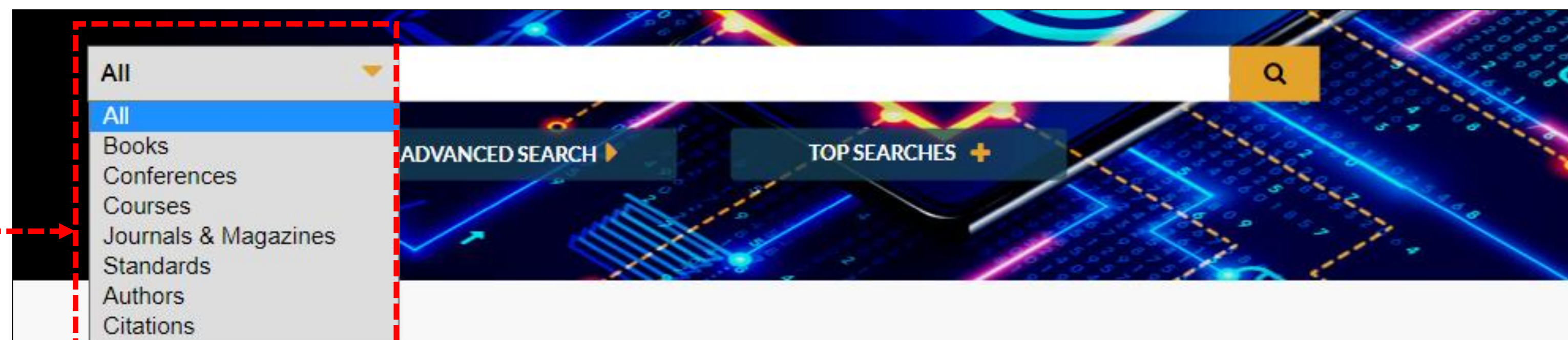
▼ Abstract  (170 Kb) 

The performance of a classical linear vector predictor is limited by its ability to exploit only the linear correlation between the blocks. However, a nonlinear predictor exploits the higher order correlations among the neighboring blocks, and can predict edge blocks with increased accuracy. We have investigated several neural network architectures that can be used to implement a nonlinear vector ... [Show More](#)

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ICETA 2014 • 12th IEEE International Conference on Emerging eLearning Technologies and Applications • December 4-5, 2014, Starý Smokovec, Slovakia

Machine Learning and its applications in e-Learning systems

M. Krendzelak
Technical University of Kosice, TUKE FEI KPI, Kosice, Slovakia
krendzelak.m@gmail.com

Abstract—Exploiting the ceaselessly enhancing, online learning frameworks assumes a paramount part for adjusting toward oneself, particularly on account of working individuals. All things considered, learning frameworks don't for the most part adjust to learners' profiles. Learners need to invest a ton of time before arriving at the learning objective that is perfect with their insight foundation. This paper investigates Machine Learning and its applications in E-Learning frameworks. Machine learning, we may say, is a sort of artificial intelligence (AI) that gives machines the capacity to learn without being expressly customized. Machine learning concentrates on the advancement of machine projects that can develop themselves and change when presented to new information [8].

III. MACHINE LEARNING TECHNIQUES

Machine Learning aides enhance E-learning frameworks by not just misleadingly shrewdly learning projects that have been in presence but additionally joins the capacity to arrange learners into these learning frameworks [7]. Learner activity is utilized adaptively to give pertinent data to the different classes of learners. Machine learning helps make models that can adjust to attributes, for example, the learner's level of information and that it is feasible for learners to have the capacity to study under both on- and disconnected from the net modes through adjustment [1].

Machine learning aides do:

A. Supervised Learning

Input information is called preparing information and has a referred to mark or come about, for example, spam/not-spam or a stock cost at once. A model is arranged through a preparation process where it is obliged to make forecasts and is adjusted when those expectations aren't right. The preparation methodology proceeds until the model attains a fancied level of exactness on the preparation information. Case issues are Logistic Regression and the Back Propagation Neural Network.

B. Semi-supervised Learning

Input information is a mixture of marked and unmarked samples. There is a craved forecast issue yet the model must take in the structures to compose the information and in addition make expectations. Case issues are arrangement and regression. Case algorithms are expansions to other adaptable systems that make suspicions about how to model the unmarked information.

C. Reinforcement Learning

Input information is given as boost to a model from an environment to which the model must react and respond. Input is given not from of a showing process as in regulated adapting, however as disciplines and compensates in the nature's domain. Case issues are frameworks and robot control. Sample examples are Q-learning and Hetero-contrast learning. Algorithms used to accomplish the above learning methodologies incorporate:

1) Regression

Relapse is concerned with displaying the relationship between variables that is iteratively refined utilizing a measure of lapse as a part of the forecasts made by the model. Relapse strategies are a work steel of facts and have been coopered into measurable machine learning. This

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