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Best Research Papers in the Field of Sensors, Signals, and Imaging Informatics 2021

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Summary

Objective: In this synopsis, we identify and highlight sowarch papers representing nateworthy developments in signals, sensors, and imaging informatics in 2021.

Method: A broad literature search was conducted on PubMed. and Scapus databases. We combined Medical Subject Heading: (MaGRI) terms and knywords to construct particular quaries for sensors, signals, and imaging informatics. Except for the sensor section, we only consider papers that have been published in journals providing at local three articles in the query response. Using a three-point Likest scale (1 - not include, 2 - maybe include, and 3 - include), we reviewed the titles and abstracts of all database estures. Only those papers which reached two times. three points were further considered for full paper review using the some Sikert scale. Appire, we poly considered works with two times three points and provided these for external reviews. Based on the external revines, we selected three best papers, as it happens that the three highest ranked papers represent works. from all three parts of this section: sursurs, signals, and imaging information.

Results. The search for papers was executed in January 2002. After removing displicates and conference proceedings, the goary stammed a set all 88, 374, and 871 papers for sensors, signals, and imagine informatics, respectively. For stonets and images.

we filtered out journals that had less than three papers in the spery results, reducing the number of papers, to 215 and 512, respectively. Herm this total of 815 papers, the section is reditors identified 35 condidates papers with two times three bliest paints, from which nine condidate best papers were nominated other fall paper assessment. At least three best-resided papers were seminated opport was selected using the composite rating of all external reviewers. By accident, three three papers represent each of the three Selds of sensor, signal, and integring informatics. They was approved by consensure of the International Reducel Informatics Association (IREA) Yearbook editorial board. Deep and machine learning techniques are still a deminant typic as well as concepts beyond the state of the out.

Candusines. Sensors, signols, and imaging informatics is a dynamic field of internal research. Cornert research focuses on creating and processing heterogeneous sensor data towards meaningful decision support in clinical settings.

Keywords

Sersors, signals, imaging informatics, medical informatics.

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1 Introduction

Hsu et al., have defined sensors, signals, and imaging informatics (SSII) as three independent parts, although signal and imaging informatics are more related [1]. A biomedical signal and a medical image can be considered as a one-dimensional and a two- or more-dimensional stream, respectively, and the methods applied are

similar. Contrarily, the sensor's part is more device-oriented [2]. SSII spans a huge field of research, and thousands of papers are published every year [3-5]. Searching for "sensor informatics", "signal informatics", or "imaging informatics" in the title of papers published in 2021, we identified two new reviews, both focusing on the role of medical images in fighting the COVID-19 pandemic [6, 7]. In contrast, our annual task is to identify notable research in the entire field. Again, the majority of research papers have applied deep learning approaches to well-documented SSII problems and identifying real novelty is difficult. However, SSII is more than 'just' deep learning [8]. As such, our objective was to systematically eatch the spectrum of work—including all machine learning techniques—that best represent the SSII developments and achievements in 2021.

2 Paper Selection Process

The process of searching the literature for candidate best papers of the SSII section remained a challenging task, given the broad nature of the SSII category. This year, we harmonized the search terms and acronyms and completed the queries that were applied over the last years [1, 4, 5]. Still, we focused on research articles in the English language and excluded review papers. Then, we ran the queries separately for sensors, signals, and images in PubMed and Scopus (see Appendix 2).

In mid-January 2022, we executed the final query. After removing duplicates and conference proceedings, the query returned a set of 88, 376, and 871 papers for sensors, signals, and imaging informatics, respectively. As we did last year [1], we set the threshold of at least three papers in a relevant journal and excluded articles from irrelevant journals. Due to the retrieval numbers, we applied this rule to signals and images only, resulting in 215 and 512 papers, respectively.

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result of the graduate students and their faculty mentor s scholarly work and a rigorous special issue s peer review process Furthermore this book offers recommendations on how to mentor graduate students in the absence of research and mentorship on how to publish for graduate students and practitioner scholars as well as recognizing that graduate programs and professional associations are important on the socialization of practitioner scholars Each book chapter addresses the implications for practice and future research policy for community colleges and recommendation for change indicated by the research results Five broad research themes higher education policy leadership practices and roles network community student success and technology emerged from the empirical articles and critical reviews A final chapter shares advice and lessons learned from the 30 authors and mentors With the exception of Chapter 14 the chapters in this book were originally published as a special issue of the Community College Journal of Research and Practice

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Table of Contents Research Papers Examination Copy

- 1. Understanding the eBook Research Papers Examination Copy
 - The Rise of Digital Reading Research Papers Examination Copy
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Research Papers Examination Copy
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Research Papers Examination Copy
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Research Papers Examination Copy
 - Personalized Recommendations
 - Research Papers Examination Copy User Reviews and Ratings
 - Research Papers Examination Copy and Bestseller Lists
- 5. Accessing Research Papers Examination Copy Free and Paid eBooks
 - Research Papers Examination Copy Public Domain eBooks
 - Research Papers Examination Copy eBook Subscription Services
 - Research Papers Examination Copy Budget-Friendly Options

- 6. Navigating Research Papers Examination Copy eBook Formats
 - o ePub, PDF, MOBI, and More
 - Research Papers Examination Copy Compatibility with Devices
 - Research Papers Examination Copy Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Research Papers Examination Copy
 - Highlighting and Note-Taking Research Papers Examination Copy
 - Interactive Elements Research Papers Examination Copy
- 8. Staying Engaged with Research Papers Examination Copy
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Research Papers Examination Copy
- 9. Balancing eBooks and Physical Books Research Papers Examination Copy
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Research Papers Examination Copy
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Research Papers Examination Copy
 - Setting Reading Goals Research Papers Examination Copy
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Research Papers Examination Copy
 - Fact-Checking eBook Content of Research Papers Examination Copy
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements

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