بسم الله تعالی

معاونت تحقیقات و فناوری

جناب آقای دکتر صالحی

معاون محترم پژوهشی وزارت علوم، تحقیقات و فناوری

با سلام و احترام

پس از حمد خدا و درود و صلوات بر محمد و آل محمد (ص)، مجله سیگنال ها و سنسورهای پزشکی دانشگاه علوم پزشکی اصفهان در نظر دارد ۱۴ شماره ویژه با عناوین و سرفصل های منطبق با <u>جدول پیوست</u> منتشر نماید. لذا خواهشمند است دستور فرمایید اطلاع رسانی موثر در خصوص فراخوان مقاله جهت شماره های ویژه در دست چاپ این ژورنال با عناوین زیر به ذینفعان خصوصا دانشکده ها، مراکز تحقیقاتی، مراکز رشد و... واقع در زیر مجموعه های مربوطه به نحو مقتضی انجام گردد. ضمنا اطلاعات جزئی هر کدام از شماره های ویژه از طریق سایت https://misp.mui.ac.ir/fa/journal-special-issue در دسترس می باشد.

- Advances in sensor networks and its applications in healthcare systems
- Social Media Analytics and Sensing for Pervasive Healthcare and Well being
- Setting the Future of Signal and Image Processing
- Multi-Sensor Communication for Biomedical Applications
- Application of advanced techniques in healthcare for sustainable development
- State-of-the-Art Wireless Wearable Body Sensor for Healthcare Applications
- Artificial Intelligence Techniques for Identifying risks Post COVID – 19
- Appraisal of an affordable healthcare private blockchain network builds on Hyper-ledger Fabric
- Utilizing uncertainties estimation in predictive modelling and stochastic dynamics
- Secure Data Processing and Management in Intelligent Healthcare Systems
- Role of intelligent computation optimization algorithms in genomics and precision medicine
- Digital Image Analysis for Disease Detection in Medical Imaging
- Role of Intelligent Computation Optimization Algorithms in Genomics and Precision Medicine
- Digital Image Analysis for Disease Detection in Medical Imaging

دکتر غلامرضا عسکری
معاون تحقیقات و فناوری

وزارت علوم، تحقیقات و فناوری
دبیرخانه مرکزی
شماره : ۹۱ ... تاریخ : ۱۴۰۲/۷/۱۸

Special Issue Invitation:

In addition to regular paper submission to JMSS, we are happy to invite the authors to submit their papers to the following special issues:

	Title	Topics of interest	Important Date	Lead Guest Editor
1	Advances in sensor networks and its applications in healthcare systems	• The role of a sensor network is empowering precision medicine • Emerging trends and applications of advanced sensor networks for emerging healthcare applications • Sensor network protocols for the development of healthcare applications • Sensor network advances in healthcare systems and future challenges • Role of wireless sensor platforms for monitoring the development of healthcare units • Technical challenges and objectives in wireless sensor networks • Healthcare applications and the technological implied medical resources • Frontiers and applications of smart sensor networks for health care units • Development of remote healthcare wireless sensor network for sustainable healthcare units • Applications of wireless sensor networks in the enhancement of both urban and rural healthcare sectors	✓ Submission: 10 June, 2023 ✓ First decision: 30 Sept. 2023 ✓ Revision and resubmission deadline: 10 Dec. 2023 ✓ Paper acceptance: 20 Feb. 2024	Dr.Salim El Khediri Assistant Professor, Department of Information Technology, Qassim University, Buraydah, Saudi Arabia Email: s.elkhediri@qu.edu.sa, s.elkhediri.work@gmail.com
2	Social Media Analytics and	• Trends and perspectives of technological implication in healthcare • Recent advancements in social media analytics and sensing for healthcare development	✓ Paper Submission Deadline: 30 Aug.	Dr. Adeleh Asemi Zavareh Department of Software Engineering,

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Special Issue Invitation:

In addition to regular paper submission to JMSS, we are happy to invite the authors to submit their papers to the following special issues:

• Systems that use knowledge-based machine learning	2023	Email ID: a_sharifi@sru.ac.ir, asharifi754@gmail.com
• Aspects of perceptual systems of computational	✓ Revised Paper Submission Deadline: 30 Dec. 2023	
• Real-world applications of machine learning	✓ Notification of Final Decision: 30 Feb. 2024	
• Knowledge-based neural networks and temporal knowledge representation		
• Interactions between machines and humans	✓ Final Acceptance: 31 April, 2024	
• Communications with Digital Signal Processing		
• Modern Digital Signal Processing Technologies		
• Automated Signal Processing Learning		
• Information Security and Forensics		

| 4 | Multi-Sensor Communication for Biomedical Applications | • Wireless Body Area Networks (WBANs)
• Intelligent Sensors and Wearable Devices
• Biomedical Signal Processing
• Image and Video Processing
• Medical Data Collection and Analysis
• Machine Learning for Biomedical Applications
• Multi-Sensor Communication Protocols
• Network Security and Privacy
• Autonomous Monitoring and Diagnosis | ✓ First Submission Deadline: 25 Dec. 2023
✓ Notification of First Round Decision: 25 Feb. 2024
✓ Revised Paper Submission Deadline: 25 March, 2024
✓ Notification of Final Decision: 25 | Dr Arvind Dhaka
Associate Professor, Manipal University Jaipur, India
Email: arvind.neomatrix@gmail.com |

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April, 2024

5	Application of Advanced Techniques in Healthcare for Sustainable Development	• Emerging trends in healthcare industries for sustainable development • Healthcare: Trends, Advances and perspectives • Frontier applications of advanced healthcare units for achieving a sustainable development • Future challenges and objectives in implicating advanced features of healthcare for gaining sustainable development • Sustainable development: Current and future challenges for healthcare applications • Recent trends in involving advances of healthcare sectors for sustainable development • Limitations and challenges in the perspectives of sustainable development • Commercial perspective: Advances in healthcare for sustainability • Insights of healthcare advances to develop a sustainable environment • Contribution of governmental and non-governmental organizations to enhance the advance features of healthcare units to attain sustainability	✓ First Submission Deadline: 16 September, 2023 ✓ Notification of First Round Decision: 20 November, 2023 ✓ Revised Paper Submission Deadline: 30 January, 2024 ✓ Notification of Final Decision: 25 March, 2024
		Dr.Asefeh Asemi	
		Professor, Doctoral School of Economics, Business, & Informatics, Corvinus University of Budapest, Budapest, Hungary. Email: asemi.asefeh@uni-corvinus.hu, prof.asefehasemi@gmail.com	
6	State-of-the-Art Wireless	• Application of multi smart sensor for tumor detection	✓ First Submission Deadline:
		Dr. Sritrusta Sukaridhoto	
		Assistant Professor,	

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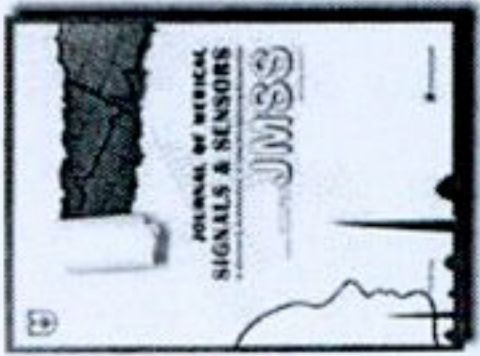
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Special Issue Invitation:

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	Cybersecurity Risks Post-COVID-19	Decision: 30	olufunkerebeccavincent@gmail.co m
	• Natural Language Processing for Risk Assessment in a Post-Pandemic World	January, 2024	
	• Challenges and opportunities of using AI for covid prediction	✓ Revised Paper Submission Deadline: 10 April, 2024	
	• Contemporary setbacks to identify covid-19 using AI imaging		
	• The Role of Artificial Intelligence in Identifying Financial Risks Post-COVID-19	✓ Notification of Final Decision: 15 June, 2024	
	• Role of deep learning for prediction and diagnosis of Covid infections		
	• Risk Identification in the Hospitality Industry using AI Techniques Post-COVID-19		
	• Cloud AI and covid-19 on tracking the communities at the risk post covid-19		
	• Predictive Analysis: A Key AI Technique for Risk Identification Post COVID-19		
	• Future of AI and data science for preventing infection spread during pandemic		
8	**Appraisal of an affordable healthcare private blockchain network builds**	✓ First Submission Deadline: 30 Nov. 2023	Dr. Kayode Sakariyah Adewole
	• A rigorous analysis of the comparison using block chain and hyper-ledger fabric in medical sector		Assistant Professor
	• Implementation of block chain-based hyper-ledger fabric smart contracts for health services	✓ Notification of First Round Decision: 05 Feb. 2024	Department of Computer Science and Media Technology
	• Employing hyper ledger fabric at the network edge to secure electronic medical records		Malmö University, Sweden
			Email Id: adewole.ksa@gmail.com, kayode.adewole@mau.se

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on Hyper-ledger Fabric

- Upon present adoption and implementation, block chain is a disruptive technology in the social and healthcare sectors
- Applying block chain to protect e-health networks from the infiltration of phishing medicines
- Technologies enabling trading biomedical and healthcare information with block chain-based confidentiality and security
- Effective Sensitive Information Pipeline Characterization Using Hyper-ledger Fabric block chain
- Adopting block chain technology in healthcare services on a broad scale: challenges and solutions
- Utilizing automated block chain technology for effective and scalable electronic health record maintenance
- A thorough analysis of block chain and the Internet of Things in the healthcare industry
- Emerging Possibilities and Challenges of block chain in Secure Medical Systems

✓ Revised Paper Submission Deadline: 10 April, 2024

✓ Notification of Final Decision: 30 May, 2024

| 9 | Utilizing Un-certainties Estimation in Predictive | - Simulations using principal component analysis to forecast how natural forces may propagate.
- A comprehensive diagnosis servicing framework for such an unpredictable stochastic | ✓ First Submission Deadline: 10 Sept. 2023
✓ Notification of | Dr. Nauman Ahmed
Department of Mathematics and Statistics, The University of Lahore, Lahore, Pakistan.
Email Address: |

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Modelling & Stochastic Dynamics	process. • Interpretation and prudent judgement in ambiguous stochastic processes. • Determining an amount of scepticism in computational meteorologists. • Reducing power consumed through anticipating its responsiveness to shifting costs. • Estimating consecutive parameters for nonlinear models. • Arranging domestic appliances with unpredictability while taking into account variable electricity tariffs. • Approximation of legislature parameters for non-linear probabilistic phenomena recognition. • Ambiguity frameworks for evolutionary algorithms in energy storage systems. • Analyzing progressive socioeconomic equations employing econometrics. • A hypothetical hydrodynamic framework for genuine predictions	First Round Decision: 20 Nov. 2023 ✓ Revised Paper Submission Deadline: 30 Jan. 2024 ✓ Notification of Final Decision: 10 May, 2024	nauman.ahmed@math.uol.edu.com nauman.ahmed71520@gmail.com
10	**Secure Data Processing and Management in Intelligent Healthcare Systems**	• Intelligent and secured data processing methods in healthcare systems and management • The role of data security in healthcare applications. • Intelligent healthcare systems for real-time patient monitoring. • Privacy and security challenges in modern healthcare systems.	✓ First Submission Deadline: 15 Oct. 2023 ✓ Notification of First Round Decision: 15 Jan. 2024	Dr. Harleen Kaur Department of Computer Science and Engineering, School of Engineering Sciences and Technology, Jamia Hamdard, New Delhi, India Email id:

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harleen@jamiahamdard.ac.in,

harleenjamiahamdard@gmail.com

- Ethical use of Electronic Health and Medical Records in various healthcare organizations.
- Recent advances and state of the art security methods in healthcare systems.
- Advanced cryptographic techniques for healthcare applications.
- Role of wearable sensors in remote patient monitoring: Issues and prospects.
- Secure data processing in the cloud computing environment.
- Cybersecurity best practices to prevent a data breach in healthcare software.
- Impact of advanced AI-based security threats in modern healthcare applications.
- Continuous risk assessment for ensuring data privacy and security in novel healthcare systems.

✓ **Revised Paper Submission Deadline:** 20 April, 2024

✓ **Notification of Final Decision:** 20 July, 2024

11	Role of Intelligent Computation & Optimization Algorithms in Genomics & Precision

- Deployment of ANNs in the effective analysis of genomics & precision medicine
- Optimized approach on deep machine learning models for data analytics on genomics and precision medicine
- A novel approach on artificial method strategies for effective precision medicine and genomics data analytics
- Effective data visualization and framework

Dr. S.B.Goyal

Faculty of Information Technology,

City University, Petaling Jaya 46100, Malaysia

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drsbgoyal.cu@gmail.com

✓ **First Submission Deadline:** 10 September, 2023

✓ **Notification of First Round Decision:** 20 December, 2023

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	Medicine	interpretation for genomics data analysis and precision medicine	✓ Revised Paper Submission Deadline: 30 March, 2024
		• Challenges associated with existing data analytics methods for effective genomics data analysis and precision medicine	✓ Notification of Final Decision: 25 June, 2024
		• Fuzzy neural data analytics approaches to the imbalanced learning algorithms in genomics or precision medicine	
		• Deployment of convolution neural network in the data prediction and analysis	
		• Effective computational strategies associated with clinical research and precision medicine	
		• Deployment of artificial algorithms in the study of neurodevelopmental disorders in children related to genomics	
		• Effective deployment of machine learning and synthetic computational methods for the enhanced precision medicine	
12	Digital Image Analysis for Disease Detection in Medical Imaging	• Artificial intelligence and machine learning techniques for disease detection in medical imaging.	✓ First Submission Deadline: 30 Nov. 2023
		• Deep learning algorithms for medical image analysis.	✓ Notification of First Round Decision: 05 Jan. 2024
		• 3D imaging for disease detection and diagnosis.	
		• Multi-modal imaging for disease detection and diagnosis.	Prof. Dr. Tanzila Saba Artificial Intelligence and Data Analytics (AIDA) Lab, CCIS Prince Sultan University, Riyadh, Saudi Arabia Email: tsaba@psu.edu.sa, dr.tanzilasaba@gmail.com

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Special Issue Invitation:

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- Automated detection and segmentation techniques for medical imaging.
- Interpretability and explainability of digital image analysis techniques in medical imaging.
- Validation and benchmarking of digital image analysis algorithms for disease detection.
- Clinical applications of digital image analysis in disease detection and diagnosis.
- Multi-modal imaging for improved detection of osteoporosis in elderly patients
- Development of a real-time image analysis system for stroke detection in brain MRI scans
- Comparing the accuracy of deep learning algorithms with human experts in detecting breast cancer
- Future of interpretability and explainability of digital image analysis in medical imaging

✓ Revised Paper Submission Deadline: 15 March, 2024

✓ Notification of Final Decision: 30 May, 2024

13	Role of Smart Sensors and Wearable Devices in Empowering Emotional Well-being of Adults with Autism	• Real-time AI-based data analysis on wearable sensors • Stress assessment and emotion recognition using Smart Sensors and Wearable Devices • Human-machine interfaces using Smart Sensors and Wearable Devices • Enhancement in Body sensor network for autism disorder in adults • Advancement in virtual and augmented reality technologies using Smart Sensors and Wearable Devices for autism disorder in adults	✓ Submission: 20 Oct, 2023 ✓ First decision: 5 Jane. 2024 ✓ Revision and resubmission deadline: 10 Mar. 2024 ✓ Paper acceptance: 25 May. 2024	Dr. Sultan Ahmad Assistant professor Department of Computer Sciences, College of Computer Engineering and Sciences, Prince Sattam Bin Abdulaziz University, Al-Kharj, Saudi Arabia Email: s.alisher@psau.edu.sa, drsultan.cse@gmail.com

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Special Issue Invitation:

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Disorder

- Next-generation wearable technologies for autism disorder in adults
- Edge-Based decentralized wearable computing for autism disorder in adults
- Head-Mounted Technologies for empowering adults with autism disorder
- Body-Worn Technologies for empowering adults with autism disorder
- Accessory and Clothing-based Technologies for empowering adults with autism disorder

| 14 | Emerging Advances in Image and Signal Processing Techniques | - Recent trends in image and signal processing
 - Role of emerging technologies in image and signal processing
 - Innovative methods for compression and retrieval
 - Designing of security related systems using image and signal processing
 - Research opportunities for the image and signal processing
 - Limitations of embedded systems in image and signal processing
 - Methods to develop intelligent algorithms for image and signal processing
 - Novel strategies for content-based image retrieval
 - Novel methodologies for statistical signal processing | ✓ Submission: -
 ✓ First decision: 25 Nov. 2023
 ✓ Revision and resubmission deadline: 05 Feb. 2023
 ✓ Paper acceptance: 08 May. 2024 | Dr. Gopal Chaudhary
 Assistant Professor
 VIPS-TC School of Engineering and Technology,
 Pitampura, Delhi, India
 Email: gopal@vips.edu, <br> gopal.vipstc@gmail.com |

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- Strategies for restoration and enhancement for image and signal processing
- Innovative methods for feature extraction and analysis of image and signals
- Advancements in image and signal processing methods
-

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