

**HCIS Journal (2022 Edition)
(Call for Papers & Published Papers)**

Human-centric Computing and Information Sciences (HCIS)
ISSN: 2192-1962, Editor-in-Chief: Jong Hyuk Park
"Impact Factor: 6.558, (JCR-Q1 ranked, Web of Science 2021)"
<http://hcisj.com/>

Important Notice

We are happy to share the exciting news that Human-centric Computing and Information Sciences (HCIS) received an official Impact Factor of 6.558, ranks 27/164 (Q1) in the category "COMPUTER SCIENCES, INFORMATION SYSTEMS", which was released in the 2021 Journal Citation Reports® (Clarivate Analytics, 2022).



1. Call for Papers

- **Special Issues (Opening)**

Special Issue on

Ensuring Cognitive Computing Technologies For Futuristic Applications

Important Dates & Lead Guest Editor

Submission deadline: 28 February 2023

Guest Editor: Dr. Muhammad Ibrahim, Assistant Professor, University of Haripur, Pakistan

CFP Link:

http://hcisj.com/issues/issue_view.php?wr_id=19&type=1

Special Issue on

Future Trends in 6G wireless communication and Enabling Technologies

Important Dates & Lead Guest Editor

Submission deadline: 31 January 2023

Guest Editor: Dr. Debabrata Samanta, Department of Computer Science, CHRIST (Deemed to be University), Bangalore, India

CFP Link:

http://hcisj.com/issues/issue_view.php?wr_id=18&type=1

Special Issue on

XAI and Blockchain Assisted solutions for Sustainable Development of Information Systems

Important Dates & Lead Guest Editor

Submission deadline: 31 January 2023

Guest Editor: Prof. Dr. Fadi Al-Turjman, Professor & Research Center Director Faculty of Engineering, Near East University, Turkey

CFP Link:

http://hcisj.com/issues/issue_view.php?wr_id=17&type=1

Special Issue on

AI-Driven Cybersecurity Solutions for Next Generation-CPS

Important Dates & Lead Guest Editor

Submission deadline: 31 December 2022

Guest Editor: Dr. Muhammad Adil, School of Engineering and Applied Sciences, University at Buffalo, USA

CFP Link:

http://hcisj.com/issues/issue_view.php?wr_id=15&type=1

Special Issue on

Human-centric Social Big Data Privacy, Security and Frontier computing

Important Dates & Lead Guest Editor

Submission deadline: 15 December 2022

Guest Editor: Prof. Dr. Zhiyong Zhang, Director of Henan International Joint Laboratory of Cyberspace Security Applications, Henan University of Science and Technology, China, USA

CFP Link:

http://hcisj.com/issues/issue_view.php?wr_id=16&type=1

• **Regular Issues (Opening)**

Aims and Scope

In Human-centric Computing and Information Sciences (HCIS), KIPS-CSWRG publishes high-quality papers that cover the various theories and practical applications related to human-centric computing and information sciences. The published papers present results of significant value to solve the various problem with application services and other problems which are within the scope of HCIS. In addition, we expect they will trigger further related research and technological improvements relevant to our future lives.

Topics

Human-centric Computing and Information Sciences stand for the continuously evolving and converging information technologies, including:

- Human-computer interaction and Multimodal
- Internet of Things and Sensors
- Cloud, Edge and Fog computing
- Social computing and Intelligence
- Computer-assisted Learning and Cognition
- Blockchain and Data Mining
- Privacy, Security and Cryptography
- AI and Big data analytics for HCIS
- Ambient Intelligence
- Cyber-physical Systems and Smart Devices
- Mobile computing and Wireless Communications
- Smart city - applications and services
- Quantum information technology (application and services)
- Metaverse applications and services
- HCIS services, applications, and implementations

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You can find the details on the following HCIS website.
http://hcisj.com/about/editorial_board.php

2. Published Papers (2022)

- Article Title: Healthcare Ledger Management: A Blockchain and Machine Learning-Enabled Novel and Secure Architecture for Medical Industry
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 30 November 2022
Authors: Khan, A. A., Laghari, A. A., Shafiq, M., Cheikhrouhou, O., Alhakami, W., Hamam, H., & Shaikh, Z. A.
<https://doi.org/10.22967/HCIS.2022.12.055>

- Article Title: Identification of Triple Negative Breast Cancer Genes Using Rough Set Based Feature Selection Algorithm & Ensemble Classifier
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 30 November 2022
Authors: Patil, S., Balmuri, K. R., Frnda, J., Parameshachari, B. D., Konda, S. & Nedoma, J.
<https://doi.org/10.22967/HCIS.2022.12.054>

- Article Title: Binary and Multi-Class Assessment of Face Mask Classification on Edge AI Using CNN and Transfer Learning
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 30 November 2022
Authors: Kristiani, E., Tsan, T. T., Liu, P. Y., Yen, N. Y., & Yang, C. T.
<https://doi.org/10.22967/HCIS.2022.12.053>

- Article Title: Detection and Mathematical Modeling of Anxiety Disorder Based on Socioeconomic Factors Using Machine Learning Techniques
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 15 November 2022
Authors: Alsuwailem, R. I., & Bhatia, S.
<https://doi.org/10.22967/HCIS.2022.12.052>

- Article Title: Comparative Neural Network Based on Template Cluster for Automated Abnormal Beat Detection in Electrocardiogram Signals
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 15 November 2022
Authors: Lee, S., & Park, D.
<https://doi.org/10.22967/HCIS.2022.12.051>

- Article Title: Sensor-Based Human Activity Recognition in Smart Homes Using Depthwise Separable Convolutions
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 30 October 2022
Authors: Alghazzawi, D., Rabie, O., Bamasaq, O., Albeshri, A., & Asghar, M. Z.
<https://doi.org/10.22967/HCIS.2022.12.050>

- Article Title: Radiation Pneumonitis Prediction Using Multi-Omics Fusion Based on a Novel Machine Learning Pipeline
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 30 October 2022
Authors: Li, B., Zheng, X., Gua, W., Wang, Y., Mao, R.,.....& Ge, H.
<https://doi.org/10.22967/HCIS.2022.12.049>

- Article Title: Improving Mental Models in IoT End-User Development
 Publication Title: Human-centric Computing and Information Sciences
 Posted Online Date: 30 October 2022
 Authors: Zancanaro, M., Gallitto, G., Yem, D., & Treccani, B.
<https://doi.org/10.22967/HCIS.2022.12.048>

- Article Title: Occupancy Detection in Smart Home Space Using Interoperable Building Automation Technologies
 Publication Title: Human-centric Computing and Information Sciences
 Posted Online Date: 15 October 2022
 Authors: Vanus, J., Martinek, R., Danys, L., Nedoma, J., & Bilik, P.
<https://doi.org/10.22967/HCIS.2022.12.047>

- Article Title: Multi-Scale Feature-Based Spatiotemporal Pyramid Network for Hand Gesture Recognition
 Publication Title: Human-centric Computing and Information Sciences
 Posted Online Date: 30 September 2022
 Authors: Cao, Z., Li, Y., & Shin, B. S.
<https://doi.org/10.22967/HCIS.2022.12.046>

- Article Title: Understanding Stochastic Modeling Approach for Container-Based SFC Service Analysis
 Publication Title: Human-centric Computing and Information Sciences
 Posted Online Date: 30 September 2022
 Authors: Zhao, Y., Li, Y., & Chao, H. C.
<https://doi.org/10.22967/HCIS.2022.12.045>

- Article Title: An Intelligent Model for Predicting the Students' Performance with Backpropagation Neural Network Algorithm Using Regularization Approach
 Publication Title: Human-centric Computing and Information Sciences
 Posted Online Date: 30 September 2022
 Authors: Bukhari, M. M., Ullah, S. S., Uddin, M., Hussain, S., Abdelhaq, M., & Alsaqour, R.
<https://doi.org/10.22967/HCIS.2022.12.044>

- Article Title: Preserving the Privacy of Dependent Tuples Using Enhanced Differential Privacy
 Publication Title: Human-centric Computing and Information Sciences
 Posted Online Date: 30 September 2022
 Authors: Ali, S., Wang, G., Riaz, S., & Rafique, T.
<https://doi.org/10.22967/HCIS.2022.12.043>

- Article Title: MetaQ: A Quantum Approach for Secure and Optimized Metaverse Environment
 Publication Title: Human-centric Computing and Information Sciences
 Posted Online Date: 15 September 2022
 Authors: Kwon, H. J., Azzaoui, A. El, & Park, J. H.
<https://doi.org/10.22967/HCIS.2022.12.042>

- Article Title: Privacy-Aware Retrieval of Electronic Medical Records by Fuzzy Keyword Search
 Publication Title: Human-centric Computing and Information Sciences
 Posted Online Date: 15 September 2022
 Authors: Jia, C., Chunyan, J., Kong, L., Lin, W., & Qi, L.
<https://doi.org/10.22967/HCIS.2022.12.041>

- Article Title: File Recovery Method in NTFS-Based Damaged RAID System
 Publication Title: Human-centric Computing and Information Sciences
 Posted Online Date: 30 August 2022
 Authors: Choi, J. H., & Lee, S.
<https://doi.org/10.22967/HCIS.2022.12.040>

- Article Title: Real-time Facial Expression Recognition via Dense & Squeeze-and-Excitation Blocks
 Publication Title: Human-centric Computing and Information Sciences
 Posted Online Date: 30 August 2022
 Authors: Tseng, F. H., Cheng, Y. P., Wang, Y., & Suen, H. Y.
<https://doi.org/10.22967/HCIS.2022.12.039>

- Article Title: Music Plagiarism Detection Based on Siamese CNN

Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 30 August 2022
Authors: Park, K., Baek, S., Jeon, J., & Jeong, Y. S.
<https://doi.org/10.22967/HCIS.2022.12.038>

- Article Title: Magnetic-Actuated Cyber-Physical System for Interventional Surgery
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 15 August 2022
Authors: Shan, C., Zhao, Z., Zhao, W., Zhang, T., Du, B., & Yuan, Z.
<https://doi.org/10.22967/HCIS.2022.12.037>
- Article Title: Quality of Service-Aware Resource Selection in Healthcare IoT Using Deep Autoencoder Neural Networks
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 15 August 2022
Authors: Manikandan, R., Indu, Albuquerque, V. H. C., Tiwari, P., Aiqahani, S. A., & Hossain, M. S.
<https://doi.org/10.22967/HCIS.2022.12.036>
- Article Title: Efficient Classification of Hyperspectral Data Using Deep Neural Network Model
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 30 July 2022
Authors: Bmasaq, O., Alghazzawi, D., Alshehri, S., Jamjoom, A., & Asghar, M. Z.
<https://doi.org/10.22967/HCIS.2022.12.035>
- Article Title: Co-DLSA: Cooperative Delay and Link Stability Aware with Relay Strategy Routing Protocol for Flying Ad-Hoc Network
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 30 July 2022
Authors: Hussain, A., Shah, B., Hussain, T., Ali, F., & Kwak, D.
<https://doi.org/10.22967/HCIS.2022.12.034>
- Article Title: The Impact of Enterprise Security Performance on Business Performance in Industrial Convergence Environment
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 30 July 2022
Authors: Shin, E., Yu, H., Bae, S., & Chang, H.
<https://doi.org/10.22967/HCIS.2022.12.033>
- Article Title: Biomedical Waste Management Using IoT Tracked and Fuzzy Classified Integrated Technique
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 15 July 2022
Authors: Wawale, S. G., Shabaz, M., Mehbodniya, A., Soni, M., Deb, N., Elashiri M. A., Dwivedi, Y. D., & Naved, M.
<https://doi.org/10.22967/HCIS.2022.12.032>
- Article Title: SA-RFR: Self-Attention Based Recurrent Feature Reasoning for Image Inpainting with Large Missing Area
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 15 July 2022
Authors: Wang, J., Wang, L., He, S., Alfarraj, O., Tolba, A., & Sherratt, R. S.
<https://doi.org/10.22967/HCIS.2022.12.031>
- Article Title: Quantum Mutation Reptile Search Algorithm for Global Optimization and Data Clustering
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 30 June 2022
Authors: Almodfer, R., Mudhsh, M., Chelloug, S., Shehab, M., Abualigah, L., & Elaziz, M. ABD
<https://doi.org/10.22967/HCIS.2022.12.030>
- Article Title: Multi-Scale Keypoints Feature Fusion Network for 3D Object Detection from Point Clouds
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 30 June 2022
Authors: Zhang, X., Bai, L., Zhang, Z., & Li, Y.

- Article Title: A Three-Layered Student Learning Model for Prediction of Failure Risk in Online Learning
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 30 June 2022
Authors: Hooshyar, D., Huang, Y. M., & Yang, Y.
<https://doi.org/10.22967/HCIS.2022.12.028>

- Article Title: Twitter Spam Detection via Bilinear Autoencoding Reconstruction Error
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 15 June 2022
Authors: He, Q., Zhang, S., Li, B., & Yin, C.
<https://doi.org/10.22967/HCIS.2022.12.027>

- Article Title: Efficient Shadow Generation of Massive Crowds Based on the Area of Screen Space
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 15 June 2022
Authors: Sung, M.
<https://doi.org/10.22967/HCIS.2022.12.026>

- Article Title: Gastrointestinal Diseases Recognition: A Framework of Deep Neural Network and Improved Moth-Crow Optimization with DCCA Fusion
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 30 May 2022
Authors: Khan, M. A., Muhammad, K., Shui-Hua, W., Shtwai, A., Adel, B., Abdullah, A., & Orawit, T.
<https://doi.org/10.22967/HCIS.2022.12.025>

- Article Title: An IoMT-Based Federated and Deep Transfer Learning Approach to the Detection of Diverse Chest Diseases Using Chest X-Rays
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 30 May 2022
Authors: Kakkar, B., Johri, P., Kumar, Y., Park, H., Son, Y., & Shafi, J.
<https://doi.org/10.22967/HCIS.2022.12.024>

- Article Title: CCTSDB 2021: A More Comprehensive Traffic Sign Detection Benchmark
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 30 May 2022
Authors: Jhang, J., Zou, X., Kuang, L. D., Wang, J., Sherratt, R. S., & Yu, X.
<https://doi.org/10.22967/HCIS.2022.12.023>

- Article Title: Biologically Inspired CNN Network for Brain Tumor Abnormalities Detection and Features Extraction from MRI Images
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 15 May 2022
Authors: Swarup, C., Kumar, A., Singh, K., Singh, T., Raja, L., Kumar, K., & Dubey, R.
<https://doi.org/10.22967/HCIS.2022.12.022>

- Article Title: Abnormal Behavior Detection Based on Activity Level Using Fuzzy Inference System for Wheelchair Users
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 15 May 2022
Authors: Ma, C., Du, J., & Gravina, R.
<https://doi.org/10.22967/HCIS.2022.12.021>

- Article Title: A Secret Sharing-Based Distributed Cloud System for Privacy Protection
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 30 April 2022
Authors: Kim, T. W., Azzaoui, A. E., Koh, B., Kim, J., & Park, J. H.
<https://doi.org/10.22967/HCIS.2022.12.020>

- Article Title: A Flexible Multiband Multicarrier Signal Design for Broadband Channel Sounding Applications
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 30 April 2022

Authors: Iqbal, A., Drieberg, M., Jeoti, V., Aziz, A. B. A., Stojanovic, G. M., Simic, M. & Hussain, N.
<https://doi.org/10.22967/HCIS.2022.12.019>

- Article Title: Dual-Level Sensor Selection with Adaptive Sensor Recovery to Extend WSNs' Lifetime
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 30 April 2022
Authors: Salim, O. M., Fouad, K. M., & Hassan, B.
<https://doi.org/10.22967/HCIS.2022.12.018>
- Article Title: Research on a Driver Fatigue Detection Model Based on Image Processing
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 15 April 2022
Authors: Mu, Z., Jin, L., Yin, J., & Wang, Q.
<https://doi.org/10.22967/HCIS.2022.12.017>
- Article Title: Web Session Hijacking Defense Technique Using User Information
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 15 April 2022
Authors: Hwang, W. S., Shon, J. G., & Park, J. S.
<https://doi.org/10.22967/HCIS.2022.12.016>
- Article Title: Multimodal Medical Image Fusion Based on Pixel Significance Using Anisotropic Diffusion and Cross Bilateral Filter
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 30 March 2022
Authors: Lepcha, D. C., Dogra, A., Goyal, B., Chohan, J. S., Koundal, D., Zaguia, A., & Hamam, H.
<https://doi.org/10.22967/HCIS.2022.12.015>
- Article Title: A Hybrid Fuzzy-Crow Optimizer for Unconstrained and Constrained Engineering Design Problems
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 30 March 2022
Authors: Gafar, M. G., El-Sehiemy, A. A., & Sarhan, S.
<https://doi.org/10.22967/HCIS.2022.12.014>
- Article Title: Trustworthy Dynamic Data Awareness Model for Tracking in CPS
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 30 March 2022
Authors: Kim, S., Kim, S., & Yoon, Y.
<https://doi.org/10.22967/HCIS.2022.12.013>
- Article Title: Terrorist Organization Identification Using Link Prediction over Heterogeneous GNN
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 15 March 2022
Authors: Bangerter, M. L., Fenza, G., Gallo, M., Loia, V., Petrone, A., & Volpe, A.
<https://doi.org/10.22967/HCIS.2022.12.012>
- Article Title: Face Detection Using Haar Cascade Classifiers Based on Vertical Component Calibration
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 15 March 2022
Authors: Choi, C. H., Kim, J., Hyun, J., Kim, Y., & Moon, B.
<https://doi.org/10.22967/HCIS.2022.12.011>
- Article Title: Face Detection Using Haar Cascade Classifiers Based on Vertical Component Calibration
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 15 March 2022
Authors: Choi, C. H., Kim, J., Hyun, J., Kim, Y., & Moon, B.
<https://doi.org/10.22967/HCIS.2022.12.011>
- Article Title: Topic-Rank Recommendation Model Based on Microblog Topic Relevance & User Preference Analysis
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 28 February 2022
Authors: Bao, F., Xu, W., Feng, Y., & Xu, C. A.
<https://doi.org/10.22967/HCIS.2022.12.010>

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- Article Title: Mosaic Stylization Using Andamento
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 28 February 2022
Authors: Kang, D., & Seo, S.
<https://doi.org/10.22967/H CIS.2022.12.009>
-
- Article Title: Scalable Lightweight Blockchain-Based Authentication Mechanism for Secure VoIP Communication
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 28 February 2022
Authors: El Azzaoui, A., Choi, M. Y., Lee, C. H., & Park, J. H.
<https://doi.org/10.22967/H CIS.2022.12.008>
-
- Article Title: COMPASS: An Active RFID-Based Real-Time Indoor Positioning System
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 15 February 2022
Authors: Hsu, Y. F., Cheng, C. S., & Chu, W. C.
<https://doi.org/10.22967/H CIS.2022.12.007>
-
- Article Title: Enhancement of Speech Encryption/Decryption Process Using RSA Algorithm Variants
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 15 February 2022
Authors: Abouelkheir, E., & El-Sherbiny, S.
<https://doi.org/10.22967/H CIS.2022.12.006>
-
- Article Title: Simulation Studies of Elastic Optical Networks Nodes with Multicast Connections
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 30 January 2022
Authors: Sobieraj, M., Zwierzykowski, P., & Leitgeb, E.
<https://doi.org/10.22967/H CIS.2022.12.005>
-
- Article Title: End-to-End Data Authentication Deep Learning Model for Securing IoT Configurations
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 30 January 2022
Authors: Hammad, M., Ilyasu, A. M., Elgendy, I. A., & Abd El-Latif, A. A.
<https://doi.org/10.22967/H CIS.2022.12.004>
-
- Article Title: Soft Core Firmware-Based Board Management Module for High Performance Blockchain/Fintech Servers
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 30 January 2022
Authors: Shin, S., Eom, S., & Choi, M.
<https://doi.org/10.22967/H CIS.2022.12.003>
-
- Article Title: Prioritized Environment Configuration for Drone Control with Deep Reinforcement Learning
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 15 January 2022
Authors: Jang, S., & Choi, C.
<https://doi.org/10.22967/H CIS.2022.12.002>
-
- Article Title: Vision-based Skeleton Motion Phase to Evaluate Working Behavior: Case Study of Ladder Climbing Safety
Publication Title: Human-centric Computing and Information Sciences
Posted Online Date: 15 January 2022
Authors: Chen, Z., Wu, L., He, H., Jiao, Z., & Wu, L.
<https://doi.org/10.22967/H CIS.2022.12.001>
-

Indexing Services

All articles published in Human-centric Computing and Information Sciences are listed in the following indexing services:

Science Citation Index Expanded (SCIE), Scopus, Google Scholar, DOAJ, OCLC, SCImage, Summon by ProQuest

Impact Factor: 6.558

<https://jcr.clarivate.com/jcr-jp/journal-profile?journal=HUM-CENT%20COMPUT%20INFO&year=2021&fromPage=%2Fjcr%2Fhome>

Journal Citation: Q1 (27/164)

<https://jcr.clarivate.com/jcr-jp/journal-profile?journal=HUM-CENT%20COMPUT%20INFO&year=2021&fromPage=%2Fjcr%2Fhome>

Citation Score: 11.70 (13/231, Q1), Source Normalize: 2.722, SCImage: 1.777

<https://www.scopus.com/sourceid/21100358314>

Submission

=Preparing Manuscript=

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-The End-
