

**The Third International Conference on Distributed Computing and HighPerformance Computing  
(DCHPC2024), 14<sup>th</sup> -15<sup>th</sup> May 2024,  
Tehran, Iran.**

**Conference Program**

**Conference web site: [www.iahpc.ir](http://www.iahpc.ir)**

**Tuesday, May 14, 2024**

*Main Session Link:*

Time*	Event	Venue
09:00-09:45	Opening	Main Session
09:45-10:35	Keynote Speaker: <b>Prof. Behrooz Parhami</b> , University of California, Santa Barbara, USA Title: Fixed-Degree and Constant-Diameter Interconnection Networks for Parallel Supercomputing	Main Session
10:35-10:50	Break	■
10:50-11:40	Workshop: <b>Dr. Hoshang Kolivand</b> Current and Future of Directions of Augmented and Virtual Reality.	Main Session
11:40-12:30	Discussion Pannel: Director <b>Prof. D. Ali Mojdeh</b> Title: Graph Theory & It's Applicatin	Main Session
12:30-13:30	Lunch & Break	■
13:30-15:30	<b>Online parallel Sessions</b>	■
15:30-16:20	Keynote Speaker: <b>Prof. Alex Shafarenco</b> , University of Hertfordshire, Hatfield, UK Title: Towards Efficient High-Throughput Computing: Harnessing Stateless SISO Compnents and Flow Inheritance	Main Session
16:20- 16:50	Workshop: <b>Eng. Amir Mohammad Ghanbari</b> Storage in Cloud Native Systems	Main Session

**Wednesday, May 15, 2024**

Time*	Event	Venue
9:00-09:50	Workshop: <b>Dr. Aamar Wali</b> A Transfer-No-Transfer Learning Approach for Handwritten Pattern Recognition	Main Session
09:50-10:40	Keynote Speaker: <b>Prof. Satish Narayana Srirama</b> , School of Computer and Information Sciences, University of Hyderabad, India. Title: A Decade of Research in Fog computing: Relevance, Challenges, and Future Directions	Main Session
10:40-10:50	Break	■
10:50-12:30	<b>Online parallel Sessions</b>	■
12:30-13:30	Lunch & break	■
13:30-14:20	Workshop: <b>Eng. Niladri Mahapatra</b> Design Thinking	Main Session
14:20-14:30	Break	■
14:30-15:10	Discussion Panel 2	Main Session
15:10- 15:45	<b>Closing</b>	Main Session

*\*Note: Tehran, Iran time is 3:30 hours ahead of Greenwich Mean Time (GMT).*

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Online Parallel Session Name: **Main Session**

Session Chair:

Session date: **Tuesday, May 14, 2024**      Session Time: **13:30-16:10 PM.**

Session Link:

ID	Title	Presenter	Time
75	Promoting Cybersecurity Knowledge via Gamification: An Innovative Intervention Design	Fatokun Faith B.	13:30 - 13:50
84	Contribution & Power of Virtual Reality in Corporate World: A Conceptual Review	Asefeh Asemi	13:50 - 14:10
92	Optimizing Geophysical Workloads in High-Performance Computing: Leveraging Machine Learning and Transformer Models for Enhanced Parallelism and Processor Allocation	André Wyzkowski	14:10 - 14:30
117	Small Intestine Cancer Prediction using Deep Learning: A Comparative Study of CNNs and RNNs	DR. Joe Prathap P. M.	14:30 - 14:50
145	A Blockchain Mining Proof of Work Approach Based on Fog Computing Virtualization for Mobile CrowdSensing	Abbas Fadhil Mahdi	14:50 - 15:10

Online Parallel Session Name: **DC IEEE 01**

Session Chair:

Session date: **Tuesday, May 14, 2024**      Session Time: **13:30-16:30 PM.**

Session Link:

ID	Title	Presenter	Time
69	Bitcoin price prediction based on financial data, technical indicators, and news headlines sentiment analysis using CNN and GRU deep learning algorithms	Masoud Arjmand	13:30 - 13:50
74	Enhanced gray wolf optimizer for exploring social network communities	Arash Khosravi	13:50 - 14:10
79	Modeling and Verification of the Causal Broadcast Algorithm Using Colored Petri Nets	Leila Namvari Tazehkand	14:10 - 14:30
80	GPU-based Parallel Technique for Solving the N-Similarity Problem in Textual Data Mining	Mahmood Fazlali	14:30 - 14:50
85	Enhancing Software Effort Estimation with Ant Colony Optimization Algorithm and Fuzzy-Neural Networks	Mahnaz Afshari	14:50 - 15:10
87	A Novel Approach for Specification and Verification of Symmetric Distributed Algorithms Using SPIN	Leila Namvari Tazehkand	15:10 - 15:30

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Online Parallel Session Name: **DC ISC 01**

Session Chair:

Session date: **Tuesday, May 14, 2024**      Session Time: **13:30-15:20** PM.

Session Link:

ID	Title	Presenter	Time
65	A method to predict academic performance with Combination of XGboost and Random Forest	Arash Khosravi	13:30 - 13:50
66	An Evaluation of Collaborative-Filtering Algorithms for Job Recommender Systems	Arash Khosravi	13:50 - 14:10
70	High Performance Computing (HPC) System Security: Threats and Vulnerabilities, Challenges and Solutions	Sara Koleini	14:10 - 14:30
73	generalized 2-rainbow domination in graphs	Mojtaba Ghanbari	14:30 - 14:50
88	Improved Model of Secure Data Transmission in Blockchain-Based Supply Chain by Integrating Merkel Tree and Neural Networks	Fatemeh Zarrin Bin	14:50 - 15:10

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Online Parallel Session Name: **Main Session**

Session Chair:

Session date: **Wednesday, May 15, 2024**      Session Time: **10:50-12:30 AM.**

Session Link:

	Title	Presenter	Time
94	Rational Jacobi Kernel Functions: A novel massively parallelizable orthogonal kernel for support vector machines	Mahdi Movahedian Moghaddam	10:50 - 11:10
95	Enhancing Energy Efficiency of Underwater Sensor Network Routing Aiming to Achieve Reliability	Babak Nouri Moghadam	11:10 - 11:30
98	Image Thresholding Based on Sailfish Optimizer Algorithm	Nasrin Aghaee Maybodi	11:30 - 11:50
99	Multi-hop Attention-based Graph Pooling: A Personalized PageRank Perspective	Parsa Haddadian	11:50 - 12:10
105	Analyzing Complex Contagion Effects in Donation Diffusion: A Hybrid Network Science and Neural Network Approach	Parham Ghanemipour	12:10 - 12:30

Online Parallel Session Name: **DC IEEE 01**

Session Chair:

Session date: **Wednesday, May 15, 2024**      Session Time: **10:50-12:30 AM.**

Session Link:

ID	Title	Presenter	Time
115	Enhancing the Performance of Photonic Crystal AND Gates with Machine Learning Optimization	Alireza Mohammadi	10:50 - 11:10
118	IoT-Based Intelligent Transportation System for Passenger-Shuttle Taxi Matchmaking	Mohammadreza Zamani	11:10 - 11:30
120	Neural Network-Driven Optimization of Photonic Crystal-Based All-Optical NOT Gate Design	Alireza Mohammadi	11:30 - 11:50
130	An Adaptive Task Scheduling Approach for Cloud Computing Using Deep Reinforcement Learning	Amir Kalbasi	11:50 - 12:10
137	Design and Simulation of a NAND Gate based on 2D Photonic Crystals	Mehdi Bagheri	12:10 - 12:30

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Online Parallel Session Name: **DC ISC 01**

Session Chair:

Session date: **Wednesday, May 15, 2024** Session Time: **10:50-12:30 AM.**

Session Link:

ID	Title	Presenter	Time
96	A review of Energy Efficient Routing Protocols in Underwater Internet of Things	Mehran Tarif	10:50 - 11:10
106	A hybrid Method based Support Vector Machine Algorithm and Naïve Bayesian Algorithm for Authorship Identification	Narmin Ghader	11:10 - 11:30
107	Modeling and Verifying a Fully Anonymous Mutual Exclusion Algorithm Using Colored Petri Nets	Leila NamvariTazeh kand	11:30 - 11:50
125	اخگر: مدیریت هزینه آگاه شروع سرد توابع زنجیره ای در مدل تابع به عنوان خدمت در رایانش ابری	Amir Kalbasi	11:50 - 12:10
131	Microservice Testing Speed-up Using Test Parallelization and Mocking	Mohammad Moein Nasr Khademli	12:10 - 12:30