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

Conference Program

Tuesday, May 14, 2024

Main Session Link: https://ipm.fararoom.ir/ch/main-session/guest

Time*	Event	Venue
09:15-09:45	**Opening**	Main Session
09:45-10:35	Keynote Speaker: **Prof. Behrooz Parhami,** University of California, Santa Barbara, USA **Title:** Fixed-Degree and Constant-Diameter Interconnection Networks for Parallel Supercomputing	Main Session
10:35-10:45	A&Q	▪
10:45-11:45	Workshop: **Dr. Hoshang Kolivand** Impact of AI on mixed Reality.	Main Session
11:45-12:25	Workshop: **Eng. Amir Mohammad Ghanbari** Container and Orchestraition	Main Session
12:30-13:30	Lunch & Break	▪
13:30-15:30	Online parallel Sessions	▪
15:30-16:20	Keynote Speaker: **Prof. Alex Shafarenco,** University of Hertfordshire, Hatfield, UK **Title:** Towards Efficient High-Throughput Computing: Harnessing Stateless SISO Compnents and Flow Inheritance	Main Session

Wednesday, May 15, 2024

Time*	Event	Venue
9:00-9:50	Workshop: **Dr. Aamar Wali** A Transfer-No-Transfer Learning Approach for Handwritten Pattern Recognition	Main Session
09:50-10:40	Keynote Speaker: **Prof. Satish Narayana Srirama,** 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	Online parallel Sessions	▪
12:30-13:30	Lunch & break	▪
13:30-14:20	Workshop: **Eng. Niladri Mahapatra** Design Thinking	Main Session
14:20- 14:30	**Closing**	Main Session

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

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

Online Parallel Session Name: Main Session
Session Chair: Dr. Aamar Wali
Session date: Tuesday, May 14, 2024   Session Time: 13:30-15:30 PM.
Session Link: https://ipm.fararoom.ir/ch/main-session/guest

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 Wyzykowski	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
74	Enhanced gray wolf optimizer for exploring social network communities	Arash Khosravi	15:10 - 15:30

Online Parallel Session Name: DC IEEE 01
Session Chair: Dr. Mehdi Dolati
Session date: Tuesday, May 14, 2024   Session Time: 13:30-15:10 PM.
Session Link: https://ipm.fararoom.ir/ch/dc-ieee01/guest

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
79	Modeling and Verification of the Causal Broadcast Algorithm Using Colored Petri Nets	Leila Namvari Tazehkand	13:50 - 14:10
80	GPU-based Parallel Technique for Solving the N-Similarity Problem in Textual Data Mining	Mahmood Fazlali	14:10 - 14:30
85	Enhancing Software Effort Estimation with Ant Colony Optimization Algorithm and Fuzzy-Neural Networks	Mahnaz Afshari	14:30 - 14:50
87	A Novel Approach for Specification and Verification of Symmetric Distributed Algorithms Using SPIN	Leila Namvari Tazehkand	14:50 - 15:10

Online Parallel Session Name: DC ISC 01

Session Chair: Prof. Mojdeh

Session date: *Tuesday, May 14, 2024*   **Session Time:** 13:30-15:10 PM.

Session Link: https://ipm.fararoom.ir/ch/dc-isc01/guest

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

Online Parallel Session Name: Main Session
Session Chair: Dr. Mohanad R. Aljenabi
Session date: *Wednesday, May 15, 2024*   **Session Time:** 10:50-12:30 AM.
Session Link: **https://ipm.fararoom.ir/ch/main-session/guest**

	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: Dr. Mehdi Dolati
Session date: *Wednesday, May 15, 2024*   **Session Time:** 10:50-12:30 AM.
Session Link: **https://ipm.fararoom.ir/ch/dc-ieee01/guest**

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

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

Session Chair: Dr. Nazemi

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

Session Link: **https://ipm.fararoom.ir/ch/dc-isc01/guest**

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