

The Second International Conference on Distributed Computing and High Performance Computing  
(DCHPC2022), 2<sup>nd</sup>-3<sup>rd</sup> March 2022,  
Qom, Iran.

Conference Program

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

Wednesday, March 2, 2022

Main Session Link: <https://webinar.qut.ac.ir/b/adm-upb-zwb-zna>

Time (Tehran Time)*	Event	Venue
08:30-10:15	Opening	Main Session
10:15-10:30	Break	■
10:30-12:00	Main Speaker: Prof. Maciej Drozdowski Divisible load theory – from basics to applications	Main Session
12:00-13:00	Lunch	■
13:00-14:40	Online Parallel Sessions	■
14:40-14:50	Break	■
14:50-15:50	Keynote Speaker: Prof. Bharadwaj Veeravalli HANDLING PARTITIONABLE WORKLOADS ON NETWORKED COMPUTE SYSTEMS: Is the future bleak or bright for Divisible Load Models?	Main Session
	Break	■
16:00- 17:00	Workshop: Dr. Hoshang Kolivand Current and Future of Directions of Augmented and Virtual Reality	Main Session
17:00-18:00	Workshop: Eng. Niladri Mahapatra Agile Transformer, Training, and Coaching	Main Session

Thursday, March 3, 2022

Main Session Link: <https://webinar.qut.ac.ir/b/adm-upb-zwb-zna>

Time (Tehran Time)*	Event	Venue
08:30-10:30	Online Parallel Session	■
10:30-10:45	Break	■
10:45-12:00	Keynote Speaker: Prof. Ali Emrouznejad Big Data for Service Operations Management	Main Session
12:00-13:00	Lunch	■
13:00-14:00	Workshop: Dr. Abdalsamad Keramatfar Introduction to Graph Neural Networks and its applications	Main Session
14:00-15:00	Workshop: Dr. Aamar Wali Cellular Automata Learning and Prediction Model for Handwritten Pattern Recognition	Main Session
15:00-15:15	Break	■
15:15-16:05	Keynote Speaker :Prof. Zuriati Ahmad Zukarnain A State of Art Quantum Key Distribution for 5G Networks	Main Session
16:05-16:55	Workshop: Dr. Mahboobeh Shamsi Software Requirements and Testing	Main Session
16:55-17:30	Closing	Main Session

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

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**Online Parallel Session Name:** DCIE01

**Session Chair:** Dr. Arash Khosravi , Dr. Farhang Jayrani

**Session date:** Wednesday, March 2, 2022      **Session Time:** 13:00-14:40 PM.

**Session Link:** <https://webinar.qut.ac.ir/b/adm-vkv-vhu-0xb>

ID	Title	Presenter	Time
65	An image retrieval approach based on feature extraction and self-supervised learning	Maral Kolahkaj	13:00-13:20
91	Design and Implementation of an Ethernet-based device to transfer ECG and NIBP data for remote monitoring	Ali Ekhlasi	13:20-13:40
40	A collocation method for the numerical solution of a class of linear stochastic integral equations based on Legendre polynomials	Alireza Yaghoobnia	14:00-14:20
94	A proposed numerical solution of a class of fuzzy quadratic programming problems	Mohammad Mehdi Mazarei	14:20-14:40

**Online Parallel Session Name:** DCIE02

**Session Chair:** Dr. Taghi Javdani Gandomani, Dr. Mahboubeh Shamsi

**Session date:** Wednesday, March 2, 2022      **Session Time:** 13:00-14:40 PM.

**Session Link:** <https://webinar.qut.ac.ir/b/adm-fop-tpr-qd6>

ID	Title	Presenter	Time
85	Hybrid Genetic-Environmental Adaptation Algorithm to Improve Parameters of COCOMO for Software Cost Estimation	Maedeh Dashti	13:00-13:20
99	Structure and criteria defining business value in agile software development based on hierarchical analysis	Mahsa Radnejad	13:20-13:40
20	Mining frequent spatial patterns in image databases with 17D-SPA representation	Keivan Borna	13:40-14:00
33	Stock price prediction using intelligent models, Ensemble Learning and feature selection	Mohammad Taghi Faghihi	14:00-14:20
35	Real-time supply chain Performance management A IOT-based framework for continuous improvement	Mahdi Rezaei	14:20-14:40

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Online Parallel Session Name: **DCISC01**

Session Chair: **Dr. Asefeh Asemi, Dr. Samaneh Salehi**

Session date: **Wednesday, March 2, 2022** Session Time: **13:00-14:40** PM

Session Link: <https://webinar.qut.ac.ir/b/adm-dzx-rlt-cwc>

ID	Title	Presenter	Time
93	Machine Learning for High Risk Cardiovascular Patient Identification	Muhammad Asad Arshed	13:00-13:20
14	A Review on the Development of GAN Techniques in convolutional Neural Networks and its implementation on FPGA accelerator	Hossein Alibagheri	13:20-13:40
15	Applying HP Counters for Hardware Trust Enhancement in IoT Platforms	Ali Havasi	13:40-14:00
60	General challenges in search-based software testing	Sepideh Kashefi Gargari	14:00-14:20
39	Increasing the accuracy of web suggestion system using fuzzy neural network and bio-algorithms	Zahra Abbasnejad	14:20-14:40

Online Parallel Session Name: **DCISC02**

Session Chair: **Dr. Ghassan Smaisim , Dr. Alireza Rouhi**

Session date: **Wednesday, March 2, 2022** Session Time: **13:00-14:40** PM

Session Link: <https://webinar.qut.ac.ir/b/adm-xjy-vxn-wmt>

ID	Title	Presenter	Time
53	Infrasound signal classification based on combining spectral and sound features	Ali Kharrati	13:00-13:20
73	Local Sequence Alignment with a Parallel Hash-based Model	Seyed Ehsan Parsaeian	13:20-13:40
84	Improved Grey wolf optimization with variable weights for VANETs clustering	Nebras Alhelo	13:40-14:00
41	How faculty members share scientific information via social media: Factors and barriers	Hamid Keshavarz	14:00-14:20

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Online Parallel Session Name: **DCFARSI01**

Session Chair: Dr. Eslam Nazemi, Dr. Abdolreza Rasooli

Session date: **Wednesday, March 2, 2022** Session Time: **13:00-14:40** PM

Session Link: <https://webinar.qut.ac.ir/b/adm-axx-ed2-kos>

ID	Title	Presenter	Time
52	هماهنگی در یک زنجیره ی تأمین سه سطحی با محدودیتهای مالی	فرانک امتحانی	13:00-13:20
80	حل مسأله رنگ آمیزی جمعی گراف با استفاده از الگوریتم ابتکاری	مرتضی رجب زاده	13:20-13:40
98	شبکه های عصبی پیچشی حساس به هزینه برای طبقه بندی زیرگروههای سرطان	راضیه هاشمی علم	13:40- 14:00

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**Online Parallel Session Name:** DCIEE03

**Session Chair:** Dr. Ghassan Smaisim, Dr. Farhang Jayrani, Dr. Majid Aghaee

**Session date:** Thursday, March 3, 2022      **Session Time:** 08:30-10:30 AM

**Session Link:** <https://webinar.qut.ac.ir/b/adm-5im-01j-jks>

ID	Title	Presenter	Time
70	Detecting IoT Attacks using Multi-Layer Data Through Machine Learning	Hina Alam	08:30-08:50
71	A Hybrid Collaborative Filtering Technique for Web Service Recommendation using Contextual Attributes of Web Services	Noor Ul Ain	08:50-09:10
77	Impact of Artificial Intelligence in COVID-19 Pandemic: A Comprehensive Review	Hafiz Ahsan Arshad	09:10-09:30
62	A Light Weight Deep Learning Model for Real World Plant Identification	Muhammad Asad Arshed	09:30-09:50
82	Optimization of Modified Adaptive Neuro Fuzzy Inference System (MANFIS) with Artificial Bee Colony (ABC) Algorithm for Classification of Bone Cancer	Ali T. Lafta	09:50:10:10

**Online Parallel Session Name:** DCIEE04

**Session Chair:** Dr. Hoshang kolivand, Dr. Morteza Rajabzadeh, Dr. Hadi Zyani

**Session date:** Thursday, March 3, 2022      **Session Time:** 08:30-10:30 AM

**Session Link:** <https://webinar.qut.ac.ir/b/adm-dz9-hgy-kad>

ID	Title	Presenter	Time
78	Optimized Power Consumption Formula for Designing IoT-Based Systems	Abolfazl Rajaiyan	08:30-08:50
42	Comparative survey on the ways of access to managerial information	Asefeh Asemi	09:10-09:30
89	A mutual one-time password for online application	Ahmad Azarnik	09:30-09:50
97	An integrated model to evaluate big data challenges for analytical methods in recommender systems	Asefeh Asemi	09:50-10:10

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**Online Parallel Session Name:** **DCISC03**

**Session Chair:** Dr. Alireza Rouhi, Dr. Abdolreza Rasooli, Dr. Sharareh Enshae

**Session date:** **Thursday, March 3, 2022**      **Session Time:** **08:30-10:30 AM**

**Session Link:** <https://webinar.qut.ac.ir/b/adm-xhg-hdh-spk>

ID	Title	Presenter	Time
59	An accurate approach for solving a class of fuzzy optimal control problems with nonlinear constraints	Ali Asghar Behroozpoor	08:30-08:50
29	New Approach for Solving Discrete Problems With Huge Amount Of Variables Through Optimizing Current Genetic Algorithm Crossover Techniques	Samaneh Salehi Nasab	08:50-09:10
113	Improve The Automatic Detection of Welding Defects in Steel Structures Using Fuzzy Clustering Algorithm	Hasan Bairmani	09:10-09:30
115	Credit Card Fraud Detection by Combining Neural Network and Grasshopper Optimization Algorithm	Alaa Mahdi Alkhafaji	09:30-09:50

**Online Parallel Session Name:** **DCFARSI02**

**Session Chair:** Dr. Eslam Nazemi, Dr. Mahboubeh Shamsi

**Session date:** **Thursday, March 3, 2022**      **Session Time:** **08:30-10:30 AM**

**Session Link:** <https://webinar.qut.ac.ir/b/adm-ebs-xe6-aim>

ID	Title	Presenter	Time
102	بهبود تخمین هزینه توسعه نرم افزار مبتنی بر تشابه با استفاده از مدل تکاملی یادگیر	مائده دشتی	08:30-08:50
47	بهینه سازی هزینه ارتباطات آگاه از افرازبندی اولیه در محاسبات کوانتومی توزیع شده	مرضیه صمدپور	08:50-09:10
83	مقایسه شبکه های عصبی MobileNet- SSD V2 و YOLOv3 و YOLOv5s برای تشخیص ماسک صورت در زمان واقعی	مریم فردی	09:10-09:30
27	پیاده سازی مکانیزی جهت تشخیص میزان سطح استرس در افراد با استفاده از پردازش سیگنال مایوگرام در شبکه های سطح بدن	مسعود زینی زاده	09:30-09:50
26	ارزیابی کالاهای دیجیتال با استفاده از تحلیل احساسات در محتوای مبتنی بر وب	آرش خسروی	09:50-10:10