39th IBIMA Computer Science Conference: 30-31 May 2022

Presentations: Monday 30 May 2022
Tuesday 31 May 2022

Paper Number	Day	Time in GMT+2		Session Chair	Session Title	Manuscript Title	Archived online Powerpoint Presentation
10124	Tuesday	11:00 AM		Mariam Al Jouhi	Software Development and Database Systems Research	Database Security: Challenges and Protections	Link to Presentation
10126	Monday	9:30 AM		Loredana-Cristina DUMITRIU	Mobile Applications Development	The Performance-Enhancing Capabilities in SAPUI5	Link to Presentation
10127	Tuesday	12:30 PM		Michalak Jarosław	Network Modeling and Geographical Information Systems	Location Accuracy of a Radio Ground Station in The Rice Channel by The Multilateration Method with The Use of Non-Linear Regression Function	Link to Presentation
10139	Monday	11:00 AM		Dragos Florian Marcu	Research in Manufacturing Technology	Extended Process of Industry 4.0 Knowledge Transfer Using Automation Elements and Hardware Simulation	Link to Presentation
10142	Monday	9:30 AM		Loredana-Cristina DUMITRIU	Mobile Applications Development	A Mobile App Oriented to Virtual Storage	Link to Presentation
10143	Monday	9:30 AM		Loredana-Cristina DUMITRIU	Mobile Applications Development	Mobile Optical Character Recognition	Link to Presentation
10144	Monday	9:30 AM		Loredana-Cristina DUMITRIU	Mobile Applications Development	A Mobile App to Suggest Baby Names	Link to Presentation
10145	Monday	9:30 AM		Loredana-Cristina DUMITRIU	Mobile Applications Development	Harvest Control and Monitoring for Smart Devices	Link to Presentation
10146	Monday	9:30 AM		Loredana-Cristina DUMITRIU	Mobile Applications Development	Document Management Application	Link to Presentation
10190	Tuesday	11:00 AM		Mariam Al Jouhi	Software Development and Database Systems Research	Data analytics and Decision Making in Big Data: A Study on Criminality Case	Link to Presentation
10216	Monday	11:00 AM		Dragos Florian Marcu	Research in Manufacturing Technology	Connection and Communication Between Computer and Hardware Simulation Model for Industrial Engineers	Link to Presentation
10220	Tuesday	11:00 AM		Mariam Al Jouhi	Software Development and Database Systems Research	Performing Text Analytics –Human Vs. Computer	Link to Presentation
10238	Monday	12:30 PM		Zbigniew PIOTROWSKI	Security Issues and Data Hiding Mechanisms	Overview of Deep Learning Voice Conversion Methods using Disentangling Speaker from Linguistic Content	Link to Presentation
10239	Monday	12:30 PM		Zbigniew PIOTROWSKI	Security Issues and Data Hiding Mechanisms	Robust Data Hiding in Image by DenseNet architecture	Link to Presentation
10277	Monday	11:00 AM		Dragos Florian Marcu	Research in Manufacturing Technology	Computer Accessories as Hardware Heritage	Link to Presentation

10298	Monday	11:00 AM		Dragos Florian Marcu	Research in Manufacturing Technology	The Use of Reverse Engineering in A Plastics Processing Company	Link to Presentation
10320	Tuesday	12:30 PM		Michalak Jarosław	Network Modeling and Geographical Information Systems	Analysis of Adaptive Video Streaming Degradation Based on Clustering Approach	Link to Presentation
10321	Monday	12:30 PM		Zbigniew PIOTROWSKI	Security Issues and Data Hiding Mechanisms	Video Steganography by Machine Learning Method	Link to Presentation
10322	Monday	12:30 PM		Zbigniew PIOTROWSKI	Security Issues and Data Hiding Mechanisms	HEVC Codec Description and Comparison	Link to Presentation
10339	Tuesday	11:00 AM		Mariam Al Jouhi	Software Development and Database Systems Research	Algorithmic Processing of Natural Language	Link to Presentation
10341	Tuesday	12:30 PM		Michalak Jarosław	Network Modeling and Geographical Information Systems	Simulation Studies of The Impact of Traffic Prioritization Mechanisms on The Traffic Efficiency of Multi-Service Network Nodes	Link to Presentation
10348	Tuesday	12:30 PM		Michalak Jarosław	Network Modeling and Geographical Information Systems	Impact of Satellite Remote Sensing Versus Multispectral Aerial Photography Remote Sensing with Agricultural Drones	Link to Presentation
10354	Monday	12:30 PM		Zbigniew PIOTROWSKI	Security Issues and Data Hiding Mechanisms	Convolutions and Transposed Convolutions in Digital Image Processing	Link to Presentation
10369	Monday	12:30 PM		Zbigniew PIOTROWSKI	Security Issues and Data Hiding Mechanisms	Practical Implementation of The FSK Demodulator Based on Neural Network	Link to Presentation
10370	Monday	12:30 PM		Zbigniew PIOTROWSKI	Security Issues and Data Hiding Mechanisms	Demodulation of Faded QAM Signal Based on Neural Network	Link to Presentation
10375	Tuesday	9:30 AM		Zbigniew Gontar	Web Services, Encryption and Cloud Solutions	A Study on The Properties of Complex Non-Full-Availability Systems	Link to Presentation
10384	Monday	11:00 AM		Dragos Florian Marcu	Research in Manufacturing Technology	Industry 4.0 - Safety Guidelines in the Construction of Technical Devices	Link to Presentation
10395	Tuesday	12:30 PM		Michalak Jarosław	Network Modeling and Geographical Information Systems	Querying UML Based Ontology of Historical Geographic Information	Link to Presentation
10398	Tuesday	9:30 AM		Zbigniew Gontar	Web Services, Encryption and Cloud Solutions	Eliminating Electromagnetic Disturbances Generated by Radio Equipment Conducted in Onboard Power Supply Network	Link to Presentation
10399	Monday	12:30 PM		Zbigniew PIOTROWSKI	Security Issues and Data Hiding Mechanisms	Protecting Computer Systems and Technology Networks with Public Buildings: A focus on Lightning Protection	Link to Presentation

10405	Monday	12:30 PM		Zbigniew PIOTROWSKI	Security Issues and Data Hiding Mechanisms	What is the Deepfake Technique? An application of Artificial Intelligence	Link to Presentation
10411	Monday	12:30 PM		Zbigniew PIOTROWSKI	Security Issues and Data Hiding Mechanisms	Existing Authentication and Challenge-Response Techniques in SDN Networking	Link to Presentation
10412	Monday	12:30 PM		Zbigniew PIOTROWSKI	Security Issues and Data Hiding Mechanisms	Existing Methods of Security Anomaly Detection in Software Defined Networks (SDN)	Link to Presentation
10415	Monday	12:30 PM		Zbigniew PIOTROWSKI	Security Issues and Data Hiding Mechanisms	Neural Networks Usage in Video Signal Watermarking	Link to Presentation
10428	Tuesday	11:00 AM		Mariam Al Jouhi	Software Development and Database Systems Research	Optimizing Statistical Databases Based on Transactional Database Systems	Link to Presentation
10434	Tuesday	9:30 AM		Zbigniew Gontar	Web Services, Encryption and Cloud Solutions	Ensuring Integrity in The SDN Networks	Link to Presentation
10444	Tuesday	9:30 AM		Zbigniew Gontar	Web Services, Encryption and Cloud Solutions	Software And Cloud Solutions to Streamline Costs of Metallurgical Processes	Link to Presentation
10445	Monday	11:00 AM		Dragos Florian Marcu	Research in Manufacturing Technology	Importance of Manufacturing Technologies with Emphasis on Operational Costs: The Case of Metal Matrix Composites	Link to Presentation
10449	Monday	11:00 AM		Dragos Florian Marcu	Research in Manufacturing Technology	Masking The Acoustic Signals Generated By 3D Printers Using Variety of Noise Types	Link to Presentation
10450	Monday	12:30 PM		Zbigniew PIOTROWSKI	Security Issues and Data Hiding Mechanisms	Deep Hiding of Audio Signals in Other Audio Signals	Link to Presentation
10451	Monday	12:30 PM		Zbigniew PIOTROWSKI	Security Issues and Data Hiding Mechanisms	Deep Neural Networks Selection of Finite Impulse Response (FIR) Filter Coefficients	Link to Presentation
10452	Monday	12:30 PM		Zbigniew PIOTROWSKI	Security Issues and Data Hiding Mechanisms	Steganography of Binary Information in Image Using Deep Learning Method	Link to Presentation
10454	Monday	12:30 PM		Zbigniew PIOTROWSKI	Security Issues and Data Hiding Mechanisms	Lossless audio compression using Variational Autoencoder on Mel-scaled spectrogram	Link to Presentation
10455	Monday	12:30 PM		Zbigniew PIOTROWSKI	Security Issues and Data Hiding Mechanisms	Audio Steganography Using Discrete Cosine Transform (DCT) With Memorizing the Features of The Chroma	Link to Presentation
10456	Tuesday	12:30 PM		Michalak Jarosław	Network Modeling and Geographical Information Systems	Research Problems and Network Modeling Concept in Urban Sensor Networks	Link to Presentation

10464	Tuesday	9:30 AM		Zbigniew Gontar	Web Services, Encryption and Cloud Solutions	E-Voting Using Blockchain Technology	Link to Presentation
10465	Tuesday	9:30 AM		Zbigniew Gontar	Web Services, Encryption and Cloud Solutions	Authentication Methods in Modern Web Services	Link to Presentation
10469	Monday	12:30 PM		Zbigniew PIOTROWSKI	Security Issues and Data Hiding Mechanisms	Digital Audio Watermarking Technique with The Use Of Multiple DWT And DCT Transform	Link to Presentation
10470	Monday	12:30 PM		Zbigniew PIOTROWSKI	Security Issues and Data Hiding Mechanisms	Implementation And Comparison of Three Network Steganography Methods Based on Transmission Control Protocol	Link to Presentation
10471	Tuesday	11:00 AM		Mariam Al Jouhi	Software Development and Database Systems Research	Use of Software Testing Tools' Patterns in Polish Software Enterprises	Link to Presentation
10507	Tuesday	11:00 AM		Mariam Al Jouhi	Software Development and Database Systems Research	Twitter Arabic Dialect Identification using AraBERT	Link to Presentation
10511	Tuesday	11:00 AM		Mariam Al Jouhi	Software Development and Database Systems Research	Synthetic Spectral Image Database Generator for Deep Learning in a Radio Environment	Link to Presentation
10535	Tuesday	9:30 AM		Zbigniew Gontar	Web Services, Encryption and Cloud Solutions	Fast Fourier Transform (FFT) And Chirp-Z Transforms as Methods of Determining Image Raster Parameters	Link to Presentation
10542	Monday	9:30 AM		Loredana-Cristina DUMITRIU	Mobile Applications Development	NFT-Based User Authentication Scheme for Mobile Apps	Link to Presentation
10545	Monday	12:30 PM		Zbigniew PIOTROWSKI	Security Issues and Data Hiding Mechanisms	Load Balancing and Prioritization as A Part of Network Scattering In HDL	
10547	Monday	12:30 PM		Zbigniew PIOTROWSKI	Security Issues and Data Hiding Mechanisms	Packet Anonymization as a Part of Network Scattering in HDL	Link to Presentation
10557	Tuesday	9:30 AM		Zbigniew Gontar	Web Services, Encryption and Cloud Solutions	Application of Qboolsol Algorithm to The Fundamental Problems of Asymmetric Cryptography	Link to Presentation
10565	Monday	9:30 AM		Loredana-Cristina DUMITRIU	Mobile Applications Development	Implementation of the Android Source Code For 'Holmes and Rahe Stress Scale Questionnaire – To Identify the Stress Factors'	Link to Presentation
10577	Monday	12:30 PM		Zbigniew PIOTROWSKI	Security Issues and Data Hiding Mechanisms	Security Mechanisms for Applications Developed in Java	Link to Presentation
10578	Tuesday	9:30 AM		Zbigniew Gontar	Web Services, Encryption and Cloud Solutions	IT Systems Immunity against Electromagnetic Attacks: Reliability of MIL-STD-461G Test Method	Link to Presentation

10598	Tuesday	11:00 AM		Mariam Al Jouhi	Software Development and Database Systems Research	Medical Diagnostic Support Algorithms Based on Fuzzy Set Methodology	Link to Presentation
10611	Tuesday	9:30 AM		Zbigniew Gontar	Web Services, Encryption and Cloud Solutions	Implementation And Performance Evaluation of The Xoodyak Lightweight Encryption Algorithm	Link to Presentation
10635	Tuesday	9:30 AM		Zbigniew Gontar	Web Services, Encryption and Cloud Solutions	Ensuring Data Security in Cloud Computing	Link to Presentation
10666	Monday	9:30 AM		Loredana-Cristina DUMITRIU	Mobile Applications Development	Internet of Things (IoT) - based Healthcare Monitoring Systems for Assisting Neurodegenerative Patients in Healthcare Environment	Link to Presentation
10708	Tuesday	11:00 AM		Mariam Al Jouhi	Software Development and Database Systems Research	Remote Learning in Programming, Robotics, And Computer Forensics: Tools and Methods for Conducting Laboratories	
10709	Tuesday	9:30 AM		Zbigniew Gontar	Web Services, Encryption and Cloud Solutions	Integrating Fuzzy TF-IDF Weighting with PCA Guided Clustering for Structuring CIO Knowledge On Advantages in Cloud Solutions Absorption in Manufacturing	Link to Presentation