

INTERNATIONAL CONFERENCE ON DATA ANALYTICS FOR BUSINESS AND INDUSTRY

25-26 OCTOBER 2021, KINGDOM OF BAHRAIN



WAY TOWARDS A SUSTAINABLE ECONOMY

ORGANIZED BY

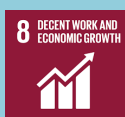


IN COLLABORATION WITH



AI INSTITUTE

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TRACKS

BIG DATA

DATA MINING

E-COMMERCE

OPTIMIZATION

DATA SCIENCE

RISK ANALYSIS

DATA ANALYTICS

CLOUD COMPUTING

SECURITY ANALYSIS

DATA VISUALIZATION

BUSINESS ANALYTICS

FINANCIAL ANALYTICS

INSURANCE STATISTICS

PATTERN RECOGNITION

PROJECT MANAGEMENT

BUSINESS INTELLIGENCE

WOMEN IN DATA SCIENCE

STATISTICS IN IT INDUSTRIES

SUPPLY CHAIN MANAGEMENT

APPLICATIONS OF DATA SCIENCE

ENERGY SYSTEMS AND EFFICIENCY

QUALITY CONTROL AND RELIABILITY

IMAGE ANALYSIS AND TOMOGRAPHY

STATISTICAL AND FINANCIAL MODELING

BIOINFORMATICS AND HEALTH POLICY DECISION MAKING

ARTIFICIAL INTELLIGENCE FOR BUSINESS AND INDUSTRY



<https://bit.ly/3mWH2Lm>

DAY1: 25 OCTOBER 2021

08:00 – 09:00	TECHNICAL SUPPORT									
09:00 – 09:05	VIRTUAL MAIN HALL	UOB DOCUMENTARY VIDEO								
09:05 – 09:10		OPENING CEREMONY: DR. JAWAHER SHAHEEN AL-MUDHAHKI, UOB PRESIDENT								
09:10 – 09:15		OPENING CEREMONY: DEANSHIP OF GRADUATE STUDIES & SCIENTIFIC RESEARCH								
09:15 – 09:20		OPENING CEREMONY: CONFERENCE STEERING COMMITTEE - PROF. HATEM MASRI								
09:20 – 09:30		BREAK								
09:30 – 10:00	VIRTUAL MAIN HALL		KEYNOTE SPEAKER 1: DR. OMAR AL-UBAYDLI Director of Research at Bahrain Center for Strategic, International and Energy Studies (DERASAT) Senior Research Fellow at Mercatus Center (USA) Associate Professor of Economics at George Mason University (USA)							
10:00 – 10:30			KEYNOTE SPEAKER 2: PROF. PAULO LISBOA Director of School of Computer Science and Mathematics Head of Department of Applied Mathematics Liverpool John Moores University (UK)							
10:30 – 11:00			KEYNOTE SPEAKER 3: DR. IVAN OLIER-CAPARROSO Senior Lecturer in Data Science School of Computer Science and Mathematics Faculty of Engineering and Technology Liverpool John Moores University (UK)							
11:00 – 11:02		VIRTUAL HONOURING OF CONFERENCE KEYNOTE SPEAKERS								
11:02 – 11:10	BREAK									
11:10 – 11:30	VIRTUAL ROOM 1A	VIRTUAL ROOM 1B	VIRTUAL ROOM 1C	VIRTUAL ROOM 1D	VIRTUAL ROOM 1E	VIRTUAL ROOM 1F	VIRTUAL ROOM 1G	VIRTUAL ROOM 1H	VIRTUAL ROOM 1I	VIRTUAL ROOM 1J
11:30 – 11:50										
11:50 – 12:10										
12:10 – 12:30										
12:30 – 12:50										
12:50 – 13:00	BREAK									

DAY1: 25 OCTOBER 2021

13:00 – 13:20

13:20 – 13:40

13:40 – 14:00

14:00 – 14:20

14:20 – 14:40

VIRTUAL ROOM 2A

VIRTUAL ROOM 2B

VIRTUAL ROOM 2C

VIRTUAL ROOM 2D

VIRTUAL ROOM 2E

VIRTUAL ROOM 2F

VIRTUAL ROOM 2G

VIRTUAL ROOM 2H

VIRTUAL ROOM 2I

VIRTUAL ROOM 2J

14:40 – 14:50

BREAK

14:50 – 15:20



KEYNOTE SPEAKER 4: PROF. LAURA ALBERT

Professor and the David Gustafson Department Chair of Industrial and Systems Engineering at the University of Wisconsin-Madison.

15:20 – 15:50



KEYNOTE SPEAKER 5: PROF. DAVIDE LA TORRE

Director of SKEMA Institute for Artificial Intelligence

Head of Programme Grande Ecole L3-M1 Finance and Quants at the SKEMA Business School - Université Côte d'Azur (France)

Full Professor of Business & Quantitative Methods at PRISM Research Center (SKEMA) Adjunct Professor of Mathematical Imaging at Department of Applied Mathematics - University of Waterloo (CANADA)

15:50 – 16:10



BAHRAIN INTERNATIONAL GROUP



16:10 – 16:12

VIRTUAL HONOURING OF CONFERENCE KEYNOTE SPEAKERS

16:12 – 16:20

BREAK

16:20 – 16:40

16:40 – 17:00

17:00 – 17:20

17:20 – 17:40

17:40 – 18:00

VIRTUAL ROOM 3A

VIRTUAL ROOM 3B

VIRTUAL ROOM 3C

VIRTUAL ROOM 3D

VIRTUAL ROOM 3E

VIRTUAL ROOM 3F

VIRTUAL ROOM 3G

DAY2: 26 OCTOBER 2021

08:00 – 09:00	TECHNICAL SUPPORT
09:00 – 12:00	WORKSHOP – INTRODUCTION TO DATA ANALYTICS WITH PYTHON
12:00 – 12:30	BREAK
12:30 – 15:00	<p>SPECIAL SESSION ON STATISTICAL AND FINANCIAL MODELLING</p> <p>Mohammad (Mike) Noori PhD student in economics & statistics at the university of Milano-Bicocca</p> <hr/> <p>Immacolata Oliva Assistant Professor at Sapienza University of Rome</p> <hr/> <p>Gian Luca Tassinari Adjunct Professor of Mathematical Methods of Economics, Finance and Actuarial Sciences at the University of Bologna</p> <hr/> <p>Michele Leonardo Bianchi Advisor in the Financial Stability Directorate of the Banca d'Italia</p> <hr/> <p>Asmerilda Hitaj Assistant Professor at the University of Insubria (ITALY)</p> <hr/> <p>Alessandro Barbiero Associate Professor of Statistics at the Department of Economics, Management and Quantitative Methods of the University of Milan (ITALY)</p>
15:00 – 15:30	CLOSING REMARKS

CONFERENCE PARALLEL SESSIONS

VIRTUAL ROOM 1A 11:10 – 12:50

APPLICATIONS OF DATA SCIENCE

BLOCKCHAIN ADOPTION FOR DATA INTEGRITY IN HIGHER EDUCATION LEARNING

NISHANT KUMAR; KAMAL UPRETI; RANJANA DINKAR RAUT; DIVYA MOHAN

APPLICATIONS OF DATA SCIENCE

PREDICTING OIL AND GAS PIPE WALL THICKNESS USING MACHINE LEARNING

ABDULRAHIM MOHAMMED; NABIL HEWAHI

APPLICATIONS OF DATA SCIENCE

FUZZY DYNAMIC CENTRALITY FOR URBAN TRAFFIC RESILIENCE

FATIMA-EZZAHRA BADAoui; AZEDINE BOULMAKoul; RACHID OULAD HAJ THAMI

APPLICATIONS OF DATA SCIENCE

MULTIPLE FEATURES DRIVER DROWSINESS DETECTION

HAJAR AL-BAHRI; RANYAH TAHA; DUAA ALHAJ; HESHAM ALAMMAL

APPLICATIONS OF DATA SCIENCE

IDENTIFYING STATE-SPECIFIC CUSTOMER CHURN PATTERNS USING DM TECHNIQUES

AISHA KHALID; AHMED KHEDR; HAJAR AL-BAHRI; AHMED M. ZEKI

CONFERENCE PARALLEL SESSIONS

VIRTUAL ROOM 1B 11:10 – 12:50

APPLICATIONS OF DATA SCIENCE

PARALLEL BRANCH-AND-BOUND - COMPARING SERIAL AND OPENMP IMPLEMENTATIONS IN A COLOR SORTING GAME

AISHA KHALID; HAJAR AL-BAHRI; AHMED KHEDR; ABDULLA ALQADDOUMI

APPLICATIONS OF DATA SCIENCE

DEEP LEARNING BASED HAND GESTURE RECOGNITION FOR EMERGENCY SITUATION: A STUDY ON INDIAN SIGN LANGUAGE

QAZI MOHAMMAD AREEB; MOHAMMAD NADEEM

APPLICATIONS OF DATA SCIENCE

AI ART CRITIC: ARTISTIC CLASSIFICATION OF POSTER IMAGES USING NEURAL NETWORKS

NOOR FATIMA; QAZI MOHAMMAD AREEB; RAZA IMAM; MOHAMMAD NADEEM

APPLICATIONS OF DATA SCIENCE

PREDICTING CUSTOMER CHURN: A COMPARISON OF EIGHT MACHINE LEARNING TECHNIQUES

MUHAMMAD MUJIYA ULKHAQ; AGUS WIBOWO; MUHAMMAD TRIBOSNIA;
REVALDA PUTAWARA; ARDHIAN FIRDAUZ

APPLICATIONS OF DATA SCIENCE

PREDICTING WINNER OF FOOTBALL MATCH USING ANALYTICAL HIERARCHY PROCESS: AN ANALYSIS BASED ON PREVIOUS MATCHES DATA

YAN WATEQULIS SYAIFUDIN; PRADINI PUSPITANINGAYU

CONFERENCE PARALLEL SESSIONS

VIRTUAL ROOM 1C 11:10 – 12:50

APPLICATIONS OF DATA SCIENCE

COMPARATIVE STUDY OF MACHINE LEARNING BASED CLASSIFICATION TECHNIQUES FOR CREDIT CARD FRAUD DETECTION

ANKIT SHAH; AKASH MEHTA

APPLICATIONS OF DATA SCIENCE

THE POTENTIAL OF EMOTIONS AS PREDICTORS OF NEWS POPULARITY ON TWITTER

DEDY SURYADI

APPLICATIONS OF DATA SCIENCE

MULTI-PACKAGE DELIVERY OPTIMIZATION WITH DRONE

MERVE YILMAZER; EBRU KARAKOSE; MEHMET KARAKOSE

APPLICATIONS OF DATA SCIENCE

APPLICATION OF CLOUD COMPUTING FOR THE DEVELOPMENT OF BIG DATA

LAM YING XIAN; MUHAMMAD EHSAN RANA

APPLICATIONS OF DATA SCIENCE

APPLICATION OF CLOUD COMPUTING SERVICES IN BIG DATA ANALYTICS

CHAK YUEN NENG; MUHAMMAD EHSAN RANA

CONFERENCE PARALLEL SESSIONS

VIRTUAL ROOM 1D 11:10 – 12:50

APPLICATIONS OF DATA SCIENCE

DATA SCIENCE IN EDUCATION: APPLICATIONS AND CHALLENGES

ANNA FELICIA; WEI KITT WONG; WAN NING LOH; FILBERT H. JUWONO

APPLICATIONS OF DATA SCIENCE

CROWD SOURCED DATA ORGANIZATION AND ANALYTICS FOR URBAN TRAFFIC ESTIMATION

QUANG TRAN MINH; PHAT HUU NGUYEN

APPLICATIONS OF DATA SCIENCE

THE INTERNATIONALIZATION OF BORN GLOBALS BUSINESS SCHOOLS: A CONCEPTUAL FRAMEWORK

NAZIFA BINTI ABD GHANI, JR.; POH-CHUIN TEO; NOMAHAZA MAHADI

APPLICATIONS OF DATA SCIENCE

MACHINE LEARNING ALGORITHMS BASED ON FEATURE SELECTION METHOD USED FOR THE PREDICTION OF BREAST CANCER

PRIYA PORWAL; THIRUNAVUKKARASU K; SHAHNAWAZ KHAN; A. SINGH

APPLICATIONS OF DATA SCIENCE

A CONVOLUTIONAL NEURAL NETWORK-BASED ARCHITECTURE FOR EMG SIGNAL CLASSIFICATION

SAMI BRIOUZA; HASSÈNE GRITLI; NAHLA KHRAIEF; SAFYA BELGHITH; DILBAG SINGH

CONFERENCE PARALLEL SESSIONS

VIRTUAL ROOM 1E 11:10 – 12:50

ARTIFICIAL INTELLIGENCE FOR BUSINESS & INDUSTRIAL DATA

DEEP NEURAL NETWORK MODEL FOR IMPROVING PRICE PREDICTION OF NATURAL GAS

ALIYUDA ALI; MUHAMMED AHMED; KACHALLA ALIYUDA; ABDULWAHAB BELLO

ARTIFICIAL INTELLIGENCE FOR BUSINESS & INDUSTRIAL DATA

HEART DISEASE PREDICTION BASED ON MACHINE LEARNING TECHNIQUES

ALI HASAN

ARTIFICIAL INTELLIGENCE FOR BUSINESS & INDUSTRIAL DATA

A DEEP CONVOLUTIONAL LSTM FOR ADLS CLASSIFICATION OF THE ELDERLY

PAVARIT VANIKACHORN; PORAWAT VISUTSAK

ARTIFICIAL INTELLIGENCE FOR BUSINESS & INDUSTRIAL DATA

A BRIEF OVERVIEW ON MACHINE LEARNING IN REHABILITATION OF THE HUMAN ARM VIA AN EXOSKELETON ROBOT

SAMI BRIOUZA; HASSÈNE GRITLI; NAHLA KHRAIEF; SAFYA BELGHITH; DILBAG SINGH

ARTIFICIAL INTELLIGENCE FOR BUSINESS & INDUSTRIAL DATA

STUDY COMPARISON STEMMER TO OPTIMIZE TEXT PREPROCESSING IN SENTIMENT ANALYSIS INDONESIAN E-COMMERCE REVIEWS

YUNITA FATMA FAIDHA; GURUH FAJAR SHIDIK; AHMAD ZAINUL FANANI

CONFERENCE PARALLEL SESSIONS

VIRTUAL ROOM 1F 11:10 – 12:50

BIG DATA

IMPLEMENTING PARALLEL COMPUTING TO ENHANCE THE PERFORMANCE OF K-MEAN ALGORITHM

SARA ABDULLA ALSHAKRANI; RANYAH TAHA; ABDULLA ALQADDUMI

BIG DATA

ENTREPRENEURIAL ORIENTATION, BIG DATA ANALYTICS, AND SME PERFORMANCE UNDER THE EFFECTS OF ENVIRONMENTAL TURBULENCE

MUZAFFAR ASAD; MUHAMMAD UZAIR ASIF; LILY ABU BAKAR; NAVEED ALTAF

BIG DATA

INTEGRATION OF BIG DATA ANALYTICS AND THE CLOUD ENVIRONMENT IN HARNESSING VALUABLE BUSINESS INSIGHTS

JAGJIVEN KAUR; MUHAMMAD EHSAN RANA

BIG DATA

DATA DRIVEN FINANCE: A BIBLIOMETRIC REVIEW AND SCIENTIFIC MAPPING

ABU BASHAR; MUSTAFA RAZA RABBANI; SHAHNAWAZ KHAN; MAHMOOD ALI

BIG DATA

CLASSIFYING SOIL MOISTURE LEVEL BASED ON WEATHER AND WATER CONDITIONS

AMEENA ALSAYED; ALAA TAREQ; ZAINAB KHAMIS; AHMED M. ZEKI

CONFERENCE PARALLEL SESSIONS

VIRTUAL ROOM 1G 11:10 – 12:50

APPLICATIONS OF DATA SCIENCE

IOT DDOS ATTACKS DETECTION USING MACHINE LEARNING TECHNIQUES: A REVIEW

AMREEN ASHRAF M. SHARIF; WAEL M EL-MEDANY

APPLICATIONS OF DATA SCIENCE

SUPPORT VECTOR REGRESSION ALGORITHM UNDER IN THE CAPM FRAMEWORK

BUI THANH KHOA

BIOINFORMATICS & HEALTH POLICY DECISION MAKING

MACHINE LEARNING IN E-HEALTH: A COMPREHENSIVE SURVEY OF ANXIETY

BIBI NUSHRINA TEELHAWOD; FAIJAN AKHTAR; MD BELAL BIN HEYAT; PRAGATI TRIPATHI;
RAJAT MEHROTRA; ASHAMO BETELIHEM ASFAW; OMAR ALSHORMAN; MAHMOUD SALEH MASADEH

BIOINFORMATICS & HEALTH POLICY DECISION MAKING

ANALYSIS OF SLEEP QUALITY AND INFLUENCING FACTORS OF COLLEGE STUDENTS IN ONLINE LEARNING

KE YING LI

BIOINFORMATICS & HEALTH POLICY DECISION MAKING

COMPREHENSIVE STUDY ON BODY WEIGHT ESTIMATION BASED ON FINGERPRINT MEASUREMENTS USING MACHINE LEARNING

MOHAMED AIT ABDERRAHMANE; IBRAHIM GUELZIM

CONFERENCE PARALLEL SESSIONS

VIRTUAL ROOM 1H 11:10 – 12:50

BUSINESS ANALYTICS

A RELATIVE ANALYSIS ON THE SPOTTING OF CARDIOVASCULAR DISEASE EMPLOYING MACHINE LEARNING TECHNIQUES

PAVAN KUMAR SP; SAMIHA CM; ANUSHA KS; GURURAJ H L;
RAMKUMAR KRISHNAMOORTHY; NISMON RIO ROBERT

BUSINESS ANALYTICS

THE ADOPTION OF ACTIVITY-BASED COSTING AND CONTEXTUAL, ORGANIZATIONAL AND BEHAVIOURAL FACTORS: EVIDENCE FROM SUDAN

FATIMA AMIR HAMMAD HAMID

BUSINESS ANALYTICS

DETERMINANTS OF EFFECTIVE TELEWORK: AN EVIDENCE FROM TELECOMMUNICATION SECTOR IN BAHRAIN

QAIS MOHAMED AL BAWAB, QMB; ELSAYED ELAMIR

BUSINESS ANALYTICS

CUSTOMER CHURN PREDICTION IN TELECOM SECTOR WITH MACHINE LEARNING AND INFORMATION GAIN FILTER FEATURE SELECTION ALGORITHM

YAKUB KAYODE SAHEED; MOSHOOD HAMBALI

BUSINESS INTELLIGENCE

SEGMENTING LECTURE VIDEO INTO CLUSTERS BY ANALYZING THE VIDEO CONTENT

MOHAMMED MAHMOOD ALI

CONFERENCE PARALLEL SESSIONS

VIRTUAL ROOM 1I 11:10 – 12:50

BUSINESS INTELLIGENCE

RESILIENCE TECHNIQUES FOR AN AUTOMATIC CAR PARKING SYSTEM

GANLAYARAT BUNYAKIAT; ORAWAN CHAOWALIT; PORAWAT VISUTSAK

BUSINESS INTELLIGENCE

DIGITAL EDUCATION INDUSTRY AND ACADEMIC PERCEPTION TO IMPROVE BUSINESS INTELLIGENCE

SAEED HAMEDD ALDULAIMI; MARWAN MOHAMED ABDELDAYEM;
ABDULSATTAR ALAZZAWI; MAJID ABDULRAZAQ

PROJECT MANAGEMENT

PORTFOLIO MANAGEMENT: A BIBLIOMETRIC REVIEW OF YEARS PUBLICATION

NURHIDAYAH BAHAR; ZAMIL SYAH MUSTAFFA; NOR DIANA AHMAD

PROJECT MANAGEMENT

THE IMPACT OF E-HRM PRACTICES ON BUSINESS PERFORMANCE IN BAHRAIN TELECOMMUNICATION SECTOR

HAROUN ALRYALAT; RESALA ALADRAJ, DR; SHAN MOHAMED;
ABDUL HASEEB ABDUL WADOOD ABDUL GHAFOOR; ABDULAZIZ ALMUSA

PROJECT MANAGEMENT

FACTORS ASSOCIATED WITH THE IMPLEMENTATION OF IDEAS IN THE INDUSTRIAL SECTOR

ADEL ISMAIL AL-ALAWI; ISRAA ABDULLA

CONFERENCE PARALLEL SESSIONS

VIRTUAL ROOM 1J 11:10 – 12:50

DATA ANALYTICS

BUILDING INFORMATION MODELLING (BIM) AND OCCUPATIONAL SAFETY IN INFRASTRUCTURE PROJECTS

SYED AMMAD; WESAM SALAH ALALOUL; SYED SAAD; MUHAMMAD ALTAF;
AAWAG MOHSEN ALAWAG; MUJAHID ALI

DATA ANALYTICS

SENTIMENT ANALYSIS OF TWEETS DURING COVID-PANDEMIC USING BLSTM

ALAA TAREQ; NABIL HEWAHI

DATA ANALYTICS

PREDICTION OF LIVER DISEASE USING MACHINE LEARNING MODELS WITH PCA

BURAIR HASSAN AL TELAQ; NABIL HEWAHI

DATA ANALYTICS

EXPLORING MACHINE LEARNING CLASSIFIERS FOR MEDICAL DATASETS

RANYAH TAHA; SARA ABDULLA ALSHAKRANI; NABIL HEWAHI

DATA ANALYTICS

WASTE CLASSIFICATIONS USING CONVOLUTIONAL NEURAL NETWORKS

HAJAR AL-BAHRI; NABIL HEWAHI

CONFERENCE PARALLEL SESSIONS

VIRTUAL ROOM 2A 13:00 – 14:40

DATA ANALYTICS

**OVERCOMING THE MAIN CHALLENGES OF DATA ANALYTICS THROUGH
TENDENCY TO THE INTELLIGENT DATA ANALYSIS**

SAMAHER AL-JANABI

DATA ANALYTICS

AN IOT FRAMEWORK FOR GROUNDNUT CROP YIELD PREDICTION USING K-MEANS ALGORITHM

K VENKATESH; K J NAIK

DATA ANALYTICS

BUILDING A MODEL IN DISCOVERING MULTIVARIATE CAUSAL RULES FOR EXPLORATORY ANALYSES

SHKURTE LUMA-OSMANI; FLORIJE ISMAILI; PARASHU RAM PAL

DATA ANALYTICS

**ARTIFICIAL NEURAL NETWORK APPROACH TO STUDY THE EFFECT OF
DRIVER CHARACTERISTICS ON ROAD TRAFFIC ACCIDENTS**

ASAD ALI; SAMEER UD-DIN; SYED SAAD; SYED AMMAD; KUMEEL RASHEED; FAWAD AHMAD

DATA ANALYTICS

**PREDICTING REGIONAL ECONOMIC CONDITION USING HUMAN
MOBILITY INDEX DURING THE PANDEMIC**

ADAM SYAIFUL HILAL; SURYO ADI RAKHMAWAN

CONFERENCE PARALLEL SESSIONS

VIRTUAL ROOM 2B 13:00 – 14:40

DATA ANALYTICS

INFERRING THE PURPOSES OF ON-DEMAND TAXI TRIPS USING GPS AND POI DATA CONSIDERING THE DESTINATION CONTEXT

DURAGE DINETH DHANANJAYA; THILLAIAMPALAM SIVAKUMAR

DATA ANALYTICS

ANALYZING TOURISTS' PERCEPTIONS OF TOURISM DESTINATIONS USING YOUTUBE COMMENTS

THILAKARATHNE K.; BANAGE KUMARA; KUHANESWARAN BANUJAN

DATA ANALYTICS

ANALYSING STUDENT'S SENTIMENT ON VIRTUAL LEARNING EXPERIENCE DURING COVID-CRISIS

MUSTAFA KAMAL; AMAR JOHRI; SHAHNAWAZ KHAN; INTEKHAB ALAM;
MOHAMMED REDHA QADER; AHMADUR RAHMAN

DATA ANALYTICS

DEVELOPING A TWO-STAGE DATA ENVELOPMENT ANALYSIS MODEL HANDLING ROUGH VARIABLES

MAYSOON AHMED JAMAL

DATA ANALYTICS

META-INTERPRETING THE CORRELATION BETWEEN THE GRADE POINT AVERAGE AND EMPLOYABILITY: A CASE STUDY

KAMAR TAHRI JOUTEI; ASMAE CHRAIBI; FATIMA ZAHRA BELHADJ, FZ;
YOUSRA CHTOUKI; NABIL BENAMAR

CONFERENCE PARALLEL SESSIONS

VIRTUAL ROOM 2C 13:00 – 14:40

DATA VISUALIZATION

IOT BASED RASH BRAKING DATA ANALYSIS AND PLOTTING IN GOOGLE MAPS USING RASPBERRY PI

EB PRIYANKA; S THANGAVEL; S THARUN

DATA VISUALIZATION

INTERACTIVE VISUALIZATION FOR STATISTICAL MODELLING THROUGH A SHINY APP IN R

AHMED KHEDR; SAWSAN HILAL

DATA VISUALIZATION

ON THE EFFECT OF DATA CENTERING ON SPECTRAL CLUSTERING WITH COSINE SIMILARITY

ZEKERIYA UYKAN

STATISTICAL & FINANCIAL MODELLING

A NEW METHOD FOR BUILDING A DISCRETE ANALOGUE TO A CONTINUOUS RANDOM VARIABLE
BASED ON MINIMIZATION OF A DISTANCE BETWEEN DISTRIBUTION FUNCTIONS

ALESSANDRO BARBIERO; ASMERILDA HITAJ

STATISTICAL & FINANCIAL MODELLING

MODELLING NIGERIAN NAIRA TO CFA FRANC EXCHANGE RATES WITH
MAXWELL-EXPONENTIATED EXPONENTIAL DISTRIBUTION

ALIYU ISMAIL ISHAQ; ALFRED ADEWOLE ABIODUN; UTHUMPORN PANITANARAK

CONFERENCE PARALLEL SESSIONS

VIRTUAL ROOM 2D 13:00 – 14:40

FINANCIAL ANALYTICS

THE EVOLUTIONAL REVENUE OPTIMISATION SYSTEM - EROS

NIKOS LOUKERIS

FINANCIAL ANALYTICS

COMPARATIVE ANALYSIS BETWEEN SUPERVISED MACHINE LEARNING AND TIME SERIES MODELS FOR STOCK PRICE PREDICTION

DASNI HENDAHEWA; NELUSHA PERERA; DIMITHRI DE MERAAL;
PASINDU INDIKADULLE; SULANIE D PERERA; SAMADHI RATHNAYAKE

FINANCIAL ANALYTICS

APPLICATION OF DIFFERENT PORTFOLIO OPTIMIZATION METHODOLOGIES UNDER SUDDEN MARKET MOVEMENTS: SRI LANKAN CONTEXT

PASAN MAHIMEKALA DE SILVA; HARSHANA LAKMAL; ISHARA RUWANDIKA; SULANIE D PERERA

FINANCIAL ANALYTICS

PORTFOLIO OPTIMIZATION ON NIFTY THEMATIC SECTOR STOCKS USING AN LSTM MODEL

JAYDIP SEN; SAIKAT MONDAL; SIDRA MEHTAB

FINANCIAL ANALYTICS

HOW DOES THE EEA CONTRIBUTE TO SUSTAINABLE ENERGY DEMAND?

ALA FATHI; ALIYA ISIKSAL

CONFERENCE PARALLEL SESSIONS

VIRTUAL ROOM 2E 13:00 – 14:40

FINANCIAL ANALYTICS

FINANCIAL ANALYTICS OF CROWDFUNDING CAMPAIGNS: DATA VISUALIZATION AND IMPLICATIONS IN THE MIDDLE EAST

SAEED HAMEDD ALDULAIMI; MARWAN MOHAMED ABDELDAYEM; ABDULSATTAR ALAZZAWI

FINANCIAL ANALYTICS

AUTOMAKERS STOCK PRICE MOVEMENT COMPARISON UNDER COVID-19

YUKARI SHIROTA; BASABI CHAKRABORTY

FINANCIAL ANALYTICS

IMPACT OF IMBALANCED DATA ON BANK TELEMARKETING CALLS OUTCOME FORECASTING USING MACHINE LEARNING

AFONSO VITÓRIO; GONÇALO MARQUES

FINANCIAL ANALYTICS

DO FEMALE DIRECTORS AFFECT FIRM RISK TAKING?

MOOZA EBRAHIM ALHADI; ZAINAB ALALWANI

SUPPLY CHAIN MANAGEMENT

TRANSFORMING MALAYSIAN ON-DEMAND DELIVERY APPS FOR EFFICIENT LAST-MILE DELIVERY: A SWOT ANALYSIS

SITI NORIDA WAHAB

CONFERENCE PARALLEL SESSIONS

VIRTUAL ROOM 2F 13:00 – 14:40

DATA MINING

THE IMPACT OF FAMILY, LIFESTYLE, AND COVID-FACTORS ON PRIVATE HIGH SCHOOL STUDENTS' ACADEMIC PERFORMANCE: DATA MINING APPROACH

AHMED KHEDR; DUAA ALHAJ; REEM ALKHALIFA; ABDULRAHIM MOHAMMED; AHMED M. ZEKI

DATA MINING

AN APPLICATION ON ENSEMBLE LEARNING USING KNIME

HILAL ÇELİK

DATA MINING

NEURAL NETWORK-BASED MODEL FOR CLASSIFYING THE WATER SOURCES BASED ON THE PHYSICO-CHEMICAL PARAMETERS

DINITHI WEERASINGHE; BANAGE KUMARA; KUHANESWARAN BANUJAN; S. K GUNATHILAKE

DATA MINING

NEURAL NETWORK BASED APPROACH FOR IDENTIFYING SUITABLE SPORT FOR BEGINNERS

AVISHKA MEDDEGODA; BANAGE KUMARA; KUHANESWARAN BANUJAN

DATA MINING

TIME FRAMEWORK: A TYPE LEVEL AND ALGEBRA DRIVEN DESIGN APPROACH

SOUFIANE MAGUERRA; AZEDINE BOULMAKOUL; HASSAN BADIR

CONFERENCE PARALLEL SESSIONS

VIRTUAL ROOM 2G 13:00 – 14:40

DATA MINING

A COMPARATIVE STUDY ON CLASSIFYING DIABETES DISEASE USING DATA MINING MODELS

SAAD EBRAHIM SAEED; BURAIR HASSAN AL TELAQ; AHMED M. ZEKI

DATA MINING

ON ANALYSIS OF EFFECTIVENESS OF ENSEMBLE, DISTANCE AND TREE BASED METHODS FOR SECURE POWER SYSTEMS

ASHUTOSH TRIPATHI; NAMAN BHOJ

DATA MINING

BUSINESS CONSTRAINTS, INTERNET USE, AND PARTNERSHIP AMONG MICRO AND SMALL ENTERPRISES IN MANUFACTURING: A DATA MINING TO OFFICIAL STATISTICS

GUNAWAN GUNAWAN

DATA MINING

POINT-OF-INTEREST RECOMMENDATION USING SUPERVISED LINK PREDICTION

ELIFGUL CAKMAK; BUKET KAYA; MEHMET KAYA

DATA MINING

A STUDY ON IDENTIFICATION OF IMPORTANT FEATURES FOR EFFICIENT DETECTION OF FAKE REVIEWS

TING-YOU LIN; BASABI CHAKRABORTY; CHUN-CHENG PENG

CONFERENCE PARALLEL SESSIONS

VIRTUAL ROOM 2H 13:00 – 14:40

DATA SCIENCE

EFFORT AND COST ESTIMATION METHODS FOR SOFTWARE DEVELOPMENT PROJECT

NOUF A ALAJMI; FAWZI ABDULAZIZ ALBALOOSHI

DATA SCIENCE

QUANTIFYING CONSTRUCTION AND DEMOLITION WASTE USING SLAM-BASED MOBILE MAPPING SYSTEM: A CASE STUDY FROM KAFR EL SHEIKH, EGYPT

NEHAL ELSHABOURY

DATA SCIENCE

A KERNEL-FREE SUPPORT VECTOR MACHINE WITH Q-MARGIN

SMARAK PRADHAN; SAGAR KUMAR; SOBHAN SARKAR; J. MAITI

DATA SCIENCE

DIPSVM: A POLYNOMIAL KERNEL-FREE SUPPORT VECTOR MACHINE

SOUMADIP SAHA; MEGHASHRITA DAS; BAISHALI SOW MONDAL; SOBHAN SARKAR; J. MAITI

DATA SCIENCE

INVESTIGATING ACADEMIA-INDUSTRY GAP FOR DATA SCIENCE

KOMAL SURYAN; RAJAN GUPTA

CONFERENCE PARALLEL SESSIONS

VIRTUAL ROOM 21 13:00 – 14:40

RISK ANALYSIS

A STUDY ON THE RELATIONSHIP BETWEEN ONLINE LEARNING AND EMOTIONAL QUOTIENT OF COLLEGE STUDENTS DURING THE PERIOD OF EPIDEMIC PREVENTION AND CONTROL

YONGYAN WU

RISK ANALYSIS

RISK MITIGATION STRATEGY USING THE HOUSE OF RISK (HOR) METHOD FOR ORGANIC FARMING SUPPLIER IN SUSTAINABLE SUPPLY CHAIN

ELISA KUSRINI; NURUL AINI

ENERGY SYSTEMS & EFFICIENCY

AGC OF MULTI AREA MULTI FUEL SYSTEM WITH WATER CYCLE ALGORITHM BASED 3DOF-PID CONTROLLER AND INTEGRATION OF PEVS

SRIKANTH GOUD B; CH NAGA SAI KALYAN; KEERTHI N;
CH RAMI REDDY; MOHIT BAJAJ; B NAGI REDDY

ENERGY SYSTEMS & EFFICIENCY

WIRELESS POWER TRANSFER FOR BATTERY CHARGING OF ELECTRICAL VEHICLE

IGOR BORISOVICH SHIROKOV; IGOR SERDYUK; ANDREY AZAROV; ELENA SHIROKOVA

ENERGY SYSTEMS & EFFICIENCY

THE STUDY OF SHORT-RANGE WIRELESS POWER TRANSFER AT MUTUAL ROTATION OF SYSTEM ELEMENTS

IGOR BORISOVICH SHIROKOV; IGOR SERDYUK; ANDREY AZAROV; ELENA SHIROKOVA

CONFERENCE PARALLEL SESSIONS

VIRTUAL ROOM 2J 13:00 – 14:40

IMAGE ANALYSIS & TOMOGRAPHY

BITMAP IMAGE PROCESSING AND EDGE DETECTION USING SOBEL ALGORITHM AND MULTI-THREADED PARALLEL TECHNIQUES

ALJAZI ALAMMARI; MOHAMED KHALED AL KAABI; MOHAMED H BUBASHAIT; ABDULLA ALQADDOUMI

IMAGE ANALYSIS & TOMOGRAPHY

DETECTION OF RAIL DEFECTS WITH DEEP LEARNING CONTROLLED AUTONOMOUS UAV

ILHAN AYDIN; MEHMET SEVI; KADIR SAHBAZ; MEHMET KARAKOSE

IMAGE ANALYSIS & TOMOGRAPHY

AUTOMATIC DETECTION OF COVID-FROM COLORIZED CT IMAGES USING DEEP LEARNING

SEMIHA GUNGOR; MEHMET KAYA

IMAGE ANALYSIS & TOMOGRAPHY

DETERMINATION OF RAILWAY TRACK GAUGE WITH IMAGE PROCESSING

MERVE YILMAZER; MEHMET KARAKOSE; ILHAN AYDIN

IMAGE ANALYSIS & TOMOGRAPHY

DETECTION AND MEASUREMENT OF RAILWAY EXPANSION GAP WITH IMAGE PROCESSING

MERVE YILMAZER; MEHMET KARAKOSE; ILHAN AYDIN

CONFERENCE PARALLEL SESSIONS

VIRTUAL ROOM 3A 16:20 – 18:00

IMAGE ANALYSIS & TOMOGRAPHY

AN INTEGRATED FRAMEWORK FOR DRIVER DROWSINESS DETECTION AND ALCOHOL INTOXICATION USING MACHINE LEARNING

RENJU VARGHESE; PRAMOD MATHEW JACOB; JOANNA JACOB;
MERLIN BABU; RUPALI RAVIKANTH; STEPHY GEORGE

IMAGE ANALYSIS & TOMOGRAPHY

REAL TIME HUMAN EMOTION RECOGNITION IN DEEP LEARNING USING HHFER ARCHITECTURE

ANKIT TOMAR; SAKSHAM GERA; SANTOSH KUMAR; BHASKER PANT

IMAGE ANALYSIS & TOMOGRAPHY

PNEUMONIA CLASSIFICATION USING HYBRID CNN ARCHITECTURE

MOHAMMED MANSUR ABUBAKAR; BASHIR ZAK ADAMU; MUHAMMAD ZAHARADDEEN ABUBAKAR

IMAGE ANALYSIS & TOMOGRAPHY

COMPARISON OF DIFFERENT CNN MODEL USED AS ENCODERS FOR IMAGE CAPTIONING

MD SAYEDUR RAHMAN; MD SAHRIAL ALAM; MD IKBAL HOSEN;
KHAIRUL ANAM MUBIN; SHARIF HOSSEN; M. F. MRIDHA

PATTERN RECOGNITION

VISUALLY PROGRAMMING AUTOMATED SLAB POSITIONING TOOL (ASPT) USING EVOLUTIONARY SOLVERS

SYED SAAD; WESAM SALAH ALALOUL; NASIR SHAFIQ; SYED AMMAD;
ABDUL HANNAN QURESHI; AAWAG MOHSEN ALAWAG

CONFERENCE PARALLEL SESSIONS

VIRTUAL ROOM 3B 16:20 – 18:00

OPTIMIZATION

TIME-SERIES CROSS-VALIDATION PARALLEL PROGRAMMING USING MPI

ABDULRAHIM MOHAMMED; AHMED KHEDR; DUAA ALHAJ;
REEM ALKHALIFA; ABDULLA ALQADDOUMI

OPTIMIZATION

ARTIFICIAL BEE COLONY FOR BLOCKING FLOWSHOP WITH DUE DATE WINDOWS

AHMED MISSAOUI; YOUNES BOUJELBENE

OPTIMIZATION

DELIVERY LEAD TIME COMPETITION BETWEEN E-TAILERS: A GAME-THEORETIC STUDY

SARIN RAJU; ROFIN M; SARAF KUMAR

OPTIMIZATION

IMPACT OF TRANSFORMATION MANAGEMENT ON EMPLOYEE SATISFACTION: EVIDENCE FROM BANKING INDUSTRY IN BAHRAIN

NARJES AL ANSARI; WALEED A. AZIZ

QUALITY CONTROL & RELIABILITY

TRACING ADULTERATION IN CUMIN, CINNAMON, AND COFFEE USING TRANSFER LEARNING

NOOR FATIMA; QAZI MOHAMMAD AREEB; MOHD. KHAN; IRFAN KHAN

CONFERENCE PARALLEL SESSIONS

VIRTUAL ROOM 3C 16:20 – 18:00

PATTERN RECOGNITION

DEVELOPMENT OF AN ALGORITHM FOR HUMAN FACE RECOGNITION

SERGEY STOROZHEV; YURI LIPIN; IAN IAKUBCHIK

PATTERN RECOGNITION

IMPROVING THE PERFORMANCE OF LOCAL BINARY CONVOLUTIONAL NEURAL NETWORKS FOR BILINGUAL DIGIT RECOGNITION

EBRAHIM AL-WAJIH; ROZAIDA GHAZALI

PATTERN RECOGNITION

APPLICATION OF GESTURE DATA RECOGNITION IN A HUMAN-INTERACTIVE LEAP MOTION SENSOR CHAIR

KUMEEL RASHEED; SYED SAAD; LUQMAN SHAHZAD; SYED AMMAD; ASAD ALI; IMRAN BADSHAH

PATTERN RECOGNITION

FACE RECOGNITION BASED DRIVER DETECTION SYSTEM

FARZANA AREFIN NAZIRA; MD. IMRIAZ UDDIN; MD. HAFIZUDDIN RAJU;
SHAJNIN HOSSAIN; MD. NAIMUR RAHMAN; M. F. MRIDHA

PATTERN RECOGNITION

THE DEVELOPMENT OF A SYSTEM FOR OBJECTS RECOGNITION IN REVERSE VENDING MACHINE USING MACHINE LEARNING TECHNOLOGIES

ANDREY N. KOKOULIN; ROSTISLAV KOKOULIN

CONFERENCE PARALLEL SESSIONS

VIRTUAL ROOM 3D  **16:20 – 18:00**

CLOUD COMPUTING

COMPARATIVE ANALYSIS OF CLOUD AND FOG ENVIRONMENT BASED ON NETWORK USAGE AND COST OF EXECUTION USING IFOGSIM

AJMAIN ALAM; MUHAMMAD IQBAL HOSSAIN; SADIA JEBUNNESA JABIN; SAQIBUL ALAM

CLOUD COMPUTING

THE CONVERGENCE BETWEEN THE BIG DATA AND THE CLOUD: A REVIEW

LUBNAA ABDUR RAHMAN; MUHAMMAD EHSAN RANA

CLOUD COMPUTING

HIGHLIGHTING DEMANDING ASPECTS OF OPERATING SYSTEMS FOR IMPROVED EFFICIENCY

SHAWWAL RASHEED; SANA MAZHAR; MUHAMMAD RAZA NAQVI

E-COMMERCE

FACTORS AFFECTING MALAYSIAN'S INTENTION TO ADOPT MOBILE PAYMENT APPLICATION

KUANG XIANG FENG; THERESA C.F. HO; POH-CHUIN TEO; LING SUAN CHOO; FAUZIAH AHMAD

E-COMMERCE

ORGANIC FOODS ONLINE SHOPPING INTENTION: THE MODERATOR ROLE OF SOCIAL DISTANCING POLICY

BUI THANH KHOA

CONFERENCE PARALLEL SESSIONS

VIRTUAL ROOM 3E 16:20 – 18:00

SECURITY ANALYSIS

NFC PAYMENTS SECURITY IN LIGHT OF COVID-PANDEMIC: REVIEW OF RECENT SECURITY THREATS AND PROTECTION METHODS

ABDULRAHMAN KHALED ABDULWAHAB; WAEL M EL-MEDANY

SECURITY ANALYSIS

BLOCKCHAIN APPLICATION IN HEALTHCARE INDUSTRY: ATTACKS AND COUNTERMEASURES

AZHAR M ALSUNBUL; WAEL M EL-MEDANY; HESHAM ALAMMAL

SECURITY ANALYSIS

CYBER SECURITY FOR INDUSTRIAL CONTROL SYSTEMS: A SURVEY

ALI RAO FAIZAN; AMGAD MUNEEER

SECURITY ANALYSIS

CYBERSECURITY RISKS ON HEALTH SECTOR SOCIAL MEDIA: SYSTEMATIC LITERATURE REVIEW

SARA AL-BASSAM; ADEL ISMAIL AL-ALAWI

SECURITY ANALYSIS

URL-BASED PHISHING WEBSITES DETECTION VIA MACHINE LEARNING

QASEM ABU AL-HAIJA; AHMAD AL BADAWI

CONFERENCE PARALLEL SESSIONS

VIRTUAL ROOM 3F 16:20 – 18:00

SECURITY ANALYSIS

INTEGRATING WEB APPLICATION SECURITY PENETRATION TESTING INTO THE SOFTWARE DEVELOPMENT LIFE CYCLE: A SYSTEMATIC LITERATURE REVIEW

SHAYMA AHMED ALTAYARAN

SECURITY ANALYSIS

**EVALUATING TOOLING AND METHODOLOGY WHEN ANALYSING
BITCOIN MIXING SERVICES AFTER FORENSIC SEIZURE**

EDWARD HENRY YOUNG; CHRISTOS CHRYSOULAS; NIKOLAOS PITROPAKIS;
PAVLOS PAPADOPOULOS; BILL BUCHANAN

SECURITY ANALYSIS

**MANAGING HIGH PRIVILEGED ACCOUNTS IN IT ENTERPRISE:
ENHANCED SECURITY INFRASTRUCTURE**

WILLIAM TIRTADJAJA; MUHAMMAD EHSAN RANA; KAMALANATHAN SHANMUGAM

SECURITY ANALYSIS

A STATIC ANALYSIS TOOL FOR MALWARE DETECTION

HAITHAM AL-ANI; QUSAY AL MAATOUK; SINAN NOMAN

SECURITY ANALYSIS

**WEB-BASED WEBSITES/WEB APPLICATIONS RECONNAISSANCE AND
VULNERABILITY SCANNER: A REVIEW AND PROPOSED SOLUTION**

DEVALDO THEODORUS; MOHAMMED ABDULNABI; QUSAY AL MAATOUK

CONFERENCE PARALLEL SESSIONS

VIRTUAL ROOM 3G 16:20 – 18:00

SECURITY ANALYSIS

HIDING AND EXPOSING MESSAGES BY COVERT CHANNEL FEATURES

HANAN FOUAD ALWADI; MUSTAFA HAMMAD

SECURITY ANALYSIS

SECURE TRANSACTION FRAMEWORK BASED ON ENCRYPTED ONE-TIME PASSWORD AND MULTI-FACTOR

ABDULLAH HAKAMI; ALAUDDIN YOUSIF AL-OMARY

SECURITY ANALYSIS

TOSSECC: TWO-STAGE SOLUTION FOR SECURING CLOUD DATA USING GAME THEORY

ASHIS KUMAR SAMANTA; NABENDU CHAKI

SECURITY ANALYSIS

ANALYZING PROBABILISTIC ADVERSARIAL SAMPLES TO ATTACK CLOUD VISION IMAGE CLASSIFIER SERVICE

ARUNA PAVATE

SECURITY ANALYSIS

DESIGN AND IMPLEMENTATION OF A SECURITY ANALYSIS TOOL THAT DETECTS AND ELIMINATES CODE CAVES IN WINDOWS APPLICATIONS

HAITHAM AL-ANI; QUSAY AL MAATOUK; SINAN NOMAN

