

# Scientific Program

2<sup>nd</sup> Online International Conference on

## Applied Science & Engineering

**Monday**  
**April 11, 2022**

### Day 1 - April 11, 2022

10:00 - 10:10 Introduction

#### Oral Presentations

10:10 - 10:30 Restricted Inverse Optimal Value Problem on Shortest Path  
**Qiao Zhang**, School of Mathematics, Southeast University, China

10:30 - 10:50 Inference on Common Intraday Periodicity at High Frequencies  
**Fan Wu**, Southeast University, China

10:50 - 11:10 Chiral Soliton Solutions of Perturbed Chiral Nonlinear Schrodinger Equation with its Applications in Mathematical Physics  
**Nadia Cheema**, Harbin Institute of Technology, China

11:10 - 11:30 Laser Diode-based High-speed Optical Wireless Communication and High CRI Solid-state Lighting  
**Amjad Ali Amjad**, Peking University, China

11:30 - 11:50 Radiation Hazard Index in Around NPP Site Candidates in West Kalimantan, Indonesia  
**June Mellawati**, The National Research and Innovation Agency, Indonesia

11:50 - 12:10 Optimization of Truck-Drone Parcel Delivery Using Metaheuristics  
**Sarab Almuhaidib**, King Saud University, Saudi Arabia

12:10 - 12:30 Structural Inspection by RPAS (Drones): Quality Work with Preventive Guarantee  
**Ruben Rodriguez Elizalde**, Universitat Oberta de Catalunya, Spain

12:30 - 12:50 Improving the Reliability Design of Mechanical Systems such as Refrigerator  
**Seongwoo Woo**, Ethiopian Technical University, Ethiopia

12:50 - 13:10 CRISPR-Cas Technology: Emerging Applications in Clinical Microbiology and Infectious Diseases  
**Sahar Serajian**, Royan Institute for Stem Cell Biology and Technology, Iran

### Lunch Break(13:10 - 13:30)

#### Oral Presentations

13:30 - 13:50 Numerical Solutions of Nonlinear Distributed-order sub-diffusion Model Arising in The Porous Theories Concerned with Percolation into Rocks with Cracks  
**Tahereh Eftekhari**, Iran University of Science and Technology, Iran

13:50 - 14:10 Petroleum Engineering and Chemical Engineering  
**Mohamed Aboughaly**, Western University, Canada

#### Poster Presentations

14:10 - 14:25 Can Ozone be Used as Antimicrobial in the Dairy Industry? A Systematic Review  
**Rebeca Bertin Afonso**, Federal Rural University of the Semi-Arid, Brazil

14:25 - 14:40 MEAMOMU Same Polarity Coupler in a Vacuum Tube Model  
**Gregory Spaulding**, Magnetic Voltage Source, USA

#### Video Presentation

14:40 - 15:00 Performance Comparison of a Multilayer Perceptron Neural Network for Digit Recognition in Three Different Industry 4.0 Technologies: Traditional, Cloud and Fog Computing  
**Mayra Alejandra Torres Hernandez**, Universidad Autonoma de Zacatecas, Mexico

End of Day 1

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**Tuesday**  
**April 12, 2022**

Day 2 - April 12, 2022

### Oral Presentations

10:00 - 10:20 Profile Shifting and Irregular Subpulse Drifting in PSR J0344 - 0901 Discovered by FAST  
**Habtamu Menberu Tedila**, Xinjiang Astronomical Observatory, China

### Keynote Presentations

10:20 - 10:45 Variational Methods for Tempered Fractional Sturm–Liouville Eigenvalue Problem  
**Prashant Kumar Pandey**, Indian Institute of Technology (BHU) Varanasi, India

10:45 - 11:10 Vulnerability Assessment  
**Sandeep Saxena**, IMS Unison University, India

11:10 - 11:35 Heat and Mass Transfer Effects on Passive Control MHD Flow of Nanoparticles with Variable Thermophysical Properties  
**Akindele. M. Okedoye**, Federal University of Petroleum Resources, Nigeria

### Oral Presentations

11:35 - 11:55 Adaptive Output Feedback Regulation for A Class of Uncertain Feed Forward Stochastic Nonlinear Systems  
**Mohsen Belfeki**, Taif University, Saudi Arabia

11:55 - 12:15 Internal Hydrodynamics in the Cytoplasm of Normal and Cancer Cells; The Possible Steps to Return The Tissue to Normal Activity  
**Natalia Koltcova**, St. Petersburg Polytechnic University Russia

12:15 - 12:35 Multi-Step Atomic Mechanism of Platinum Nano crystals Nucleation and Growth Revealed by In-Situ Liquid Cell STEM  
**Walid Dachraoui EMPA**, Swiss Federal Laboratories for Materials Science and Technology, Switzerland

12:35 - 12:55 Interactions between Energy Security and Climate Crisis: A focus on Eastern Mediterranean  
**Michail Chalaris**, International Hellenic University, Greece

12:55 - 13:15 Multiphase Induction Motor  
**Archana Nanoty**, S S Agrawal Institute of Engg & Technology, India

13:15 - 13:40 Carbon Nanomaterials –Based Agricultural Biomass; From Preparation To Applications  
**Ateeq Rahman**, University of Namibia, Namibia

End of Day 2