



**The 11th International Conference of Image Processing,
Wavelet and Applications on Real World Problems (IWW2021)
In Memory of Abul Hasan SIDDIQI, Sharda University & ISIAM, India
June 23-24, 2021, Istanbul Aydın University- online**



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Istanbul Aydın University, Istanbul, TURKEY

23-24 June 2021

On-line

Topic: The 11th International Conference on Image Processing, Wavelet and Applications (IWW2021)

Please click the link below to join the conference:

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ID: 992 8461 5049

Passcode: 4441428

E-mail: iww2021@aydin.edu.tr

23 June 2021

06.00-06.20 GMT /09.00-09.20 Local: REGISTRATION

WELCOME REMARKS

Prof. Zafer ASLAN, Chair, IAU, Turkey
Prof. Dr. Pammy MANCHANDA, ISIAM, India,
Prof. Dr. Yadigar İZMİRLİ, Rector, IAU, Turkey
Prof. Dr. Ram Chandra SINGH, Sharda University, India
Prof. Dr. Alberto PALLAVICINI, Deputy Rector University of Trieste, Italy
Assoc. Prof. Dr. Mustafa AYDIN, President, EURAS and IAU, Turkey

**6.20– 7.00 GMT
9.20-10.00 Local**

SESSION 1- IMAGE PROCESSING/APPLIED MATHEMATICS

Chair(s): Stéphane Jaffard and Osman Nuri Uçan

**7.00 – 9.10 GMT
10.00-12.10 Local**

Eşref ADALI
Evaluation of Turkish in terms of Informatics

Rene LOZI
ABDELOUAHAB and A. Arama
A novel epidemiological model of tuberculosis epidemic allowing transfers of population and wider use of treatment

Bahadır UÇAN
Revitalization of Cultural Heritage Through Extended Reality Technologies

Mukhayo RASULOVA
The Solution Of Niels Bohr's Problem On Interactive Communication

9.10 -9.40 GMT 12.10 - 12.40 Local	Sita Ram SHARMA Analysis of Fractals on Square and Some Square Carpet Designs
9.40 -10.10 GMT 12.40 -13.10 Local	BREAK
SESSION 2 - MEDICAL APPLICATIONS Chair(s): Pammy MANCHANDA and Zeynep C. KAYACAN	
10.10 -10.45GMT 13.10 -13.45 Local 10.45-12.30GMT 13.45-15.30Local	<u>Enrico FEOLI</u> Zafer ASLAN and Çiğdem GENÇEL Clustering time series data: A case study on the diffusion of COVID19 in 12 Italian cities
	Ajinkya DEOKATE, Mamta AGRAWAL, <u>Mimansha AGRAWAL</u> and Zafer ASLAN Impact of Wind and Temperature on Covid-19 outbreak: Investigatory analysis in India
	<u>Varsha NIGAM</u> , Mamta AGRAWAL, Anil GOYAL and Ramakant BHARDWAJ The mathematical model to Study the influence of different kind of clothing material on counter current heat and water distribution in human organs
	<u>Ali GÜLSOY</u> , Halit Hami ÖZ Brain Tumor Detection Using Convolutional Neural Networks (CNN)
	Mehmet Akif ÇİFÇİ An Innovative Model SegChaNet for segmentation of lung cancer in CT Images
	<u>Nur OLABI</u> , Aykut YILMAZ Automated Detection of Alzheimer's Disease Using Wavelet Transform with Convolutional Neural Networks
	Iaxmi (Sugandha PATHAK), Mamta AGRAWAL, Vijay GUPTA and Ramakant BHARDWAJ Study of numerical model for thermoregulation in women body before and after menstruation cycle
	<u>Raj Kumar</u> , Satyapriya, Sheetal, Riesz Multiresolution Analysis on Locally Compact Abelian Groups
12:30-12.50GMT 15.30 -15.50Local	BREAK
SESSION 3 - ARTIFICIAL INTELLIGENCE/APPLIED MATHEMATICS Chair(s): Guy DEGLA and Hasan A. HEPERKAN	
12.50-13.30 GMT 15.50-16.30 Local	Zuhair NASHED Inverse Problems Across the Curriculum
13.30-14.30 GMT 16.30 -17.30 Local	Cüneyt YAZICI and Ali Fuat YENİÇERİOĞLU Asymptotic behavior of solutions and stability properties for a linear neutral delay differential equation with constant impulsive jumps
	Renny P. VARGHESE On the spectrum of a new class of graphs
	Sertac GÜL and Halit Hami ÖZ 100 Days Confirmed Covid 19 Cases Prediction Model In Turkey
	Fadi Al-TURJMAN Waiting -plan B
	Amal Bouich Modulation of the Crystallization in MaPbI ₃ Perovskite Films: Studying the impact of Different Ant solvents
	<u>Mustafa Sami Şahin</u> , Halit Hami ÖZ Recognizing Musical Instruments Using Machine Learning

SESSION 4 Environmental Applications**Chair: Zuhair NASHED and Ali GÜNEŞ**

14.30 -15.10 GMT 17.30 -18.10 Local	Vanni LUGHI Climate change, energy and CO ₂ emissions: how can applied math help?
15.10 -16.00 GMT 18.10-19.00 Local	Khawla FRADI, Bechir SLIMI, Amal BOUICH, Bernabe MARI, Radhouane CHTOUROU The effect of the temperature in the structural and optoelectronics properties of MAPbI ₃ / TiO ₂ heterojunction for Photovoltaic application
	Zelha ALTINKAYA, Zafer ASLAN The Climate Changes and The Foreigner's House Purchases in Turkey
	Shahnaz AMANOVA, Rovshan ABBASOV Investigation Of Kura River Delta And Surrounding Area On The Basis Of Image Processing
	Mimansha AGRAWAL, Mamta AGRAWAL, Zafer ASLAN İlknur DÖNMEZ, Ali GÜNEŞ Monitoring Air pollution impacts on COVID-19 in India

24 June 2021**SESSION 5 - Engineering Applications****Chair(s): Rene LOZI and Halit Hami Öz**

6.30-7.50 GMT 9.30-10.50 Local	Hans Georg FEICHTINGER A Simplified Theory of Distributions for Engineering Applications and Time-Frequency Analysis
	Stéphane JAFFARD The unreasonable effectiveness of Haar frames
7.50-9.00 GMT 10.50-12.00 Local	Amal BOUICH Solution of Partially Singularly Perturbed System of Initial and Boundary Value Problems Using Non-Uniform Haar Wavelet
	Sema ÜZÜLMEZ and Mehmet Akif ÇİFÇİ Estimation of Math Success Scores According To The Reading And Writing Scores of Primary School Students
	Akmal RAZA Solution of Partially Singularly Perturbed System of Initial and Boundary Value Problems Using Non-Uniform Haar Wavelet
	İsmail GÜLER Examining the Ease of Use of Hybrid Systems in Mobile Applications
	Baljinder KOUR Space time fractional Ito system: Exact solution and conservation laws
	Berrak ŞENSES, Ece Akşen, Elena Battini SÖNMEZ Automatic Traffic Sign Classification
	Emine Ayık, Halit Hami ÖZ Forecasting the EUR-TL exchange rate with Artificial Neural Network
9:00-9.30 GMT 12.00-12.30 Local	BREAK
SESSION 6 - Engineering Applications (Cont.)	
Chair(s): Luis M. SÁNCHEZ RUIZ and Hasan A HEPERKAN	
9.30-10.10 GMT 12.30 -13.10 Local	Rashmi BHARDWAJ Wavelet Hybridized Neuronal Modelling of COVID-19

10.10-11.30 GMT 13.10-14.30 Local	Meenakshi, P.Manchanda Vector-valued Nonuniform Wavelet Packets
	Cüneyt YAZICI and Ali Fuat YENİÇERİOĞLU Asymptotic behavior of solutions and stability properties for a linear neutral delay differential equation with constant impulsive jumps
	Jalalov GARIB, <u>Mahir RASULOVA</u> , Investigation of Thermodynamic Processes In The Oil Layer With Regard of Deformation
	Shafi Ullah, Amal Bouich, Júlia Mari, Amir Shafi, Hanif Ullah, Bernabé Mari Bandgap alignment of buffer CdS toward ZnO Window layer for thin-film application
	G.Arthi Controllability of fractional-order dynamical systems with control delay
	Fatih Bingöl, Halit Hami ÖZ Semantic Analysis of a Book using R Programming
11.30 -12.15 GMT 14.30- 15.15 Local	<p style="text-align: center;">CLOSING SESSION</p> <p style="text-align: center;">With All Session Chair(s), and Invited Speakers</p> Eşref ADALI, Zafer ASLAN, Nizamettin AYDIN, Rashmi BHARDWAJ, Hans Georg FEICHTINGER, Guy DEGLA, Funda DÖKMEN, Ali GÜNEŞ, Hasan A HEPERKAN, Stéphane JAFFARD, Yeliz KARACA, Zeynep C. KAYACAN, Rene LOZI, Oya OĞUZ, Ahmet TOKGÖZLÜ, Haluk ÖZENER, Pammy MANCHANDA, Zuhair NASHED, Halit Hami ÖZ, Jawad RASHEED, Mahir RASULOVA, Mukhayo RASULOVA, Luis M. SÁNCHEZ RUIZ, Ram Chandra SINGH, Mete TAYANÇ, Bahadır UÇAN, Osman Nuri UÇAN, Lughı VANNI