

## **Prof. ŞAHİN UYAYER**

### **Personal Information**

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### **International Researcher IDs**

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### **Education Information**

Doctorate, Universitaet Potsdam, Germany 2001 - 2004

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Turkey 1992 - 1996

Undergraduate, Turkey 1988 - 1992

### **Dissertations**

Doctorate, Simulation of an annealed polyelectrolytes in a poor solvent, Universitaet Potsdam, 2004

Postgraduate, ÇÖZELTİLERDE ÇÖZÜCÜ KUVVETLER, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, 1996

### **Academic Titles / Tasks**

Associate Professor, Turkish - German University, Faculty Of Science, Department Of Energetics And Its Technologies, 2015 - 2023

Assistant Professor, Istanbul Commerce University, 2010 - 2015

Assistant Professor, University of Oklahoma, 2013 - 2013

Assistant Professor, Maltepe University, Faculty Of Engineering And Natural Sciences, Department Of Computer Engineering, 2004 - 2009

Research Assistant, 2001 - 2004

Research Assistant, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 1993 - 1997

### **Academic and Administrative Experience**

Head of Department, Turkish - German University, 2016 - 2022

Head of Department, Turkish - German University, 2016 - 2022

Director of the Center, Turkish - German University, 2016 - 2019

### **Published journal articles indexed by SCI, SSCI, and AHCI**

- I. Identification of D- and L-phenylalanine enantiomeric mixtures by employing deep neural network models**

Nigdelioglu E., Toprak E., Guney Akkurt M., Erol Barkana D., Kazanci M., UYAVER Ş., Calik N.

Journal of Molecular Structure, vol.1304, 2024 (SCI-Expanded)

II. **Effect of gamma rays on magnetic and linear/nonlinear optical properties of pristine and modified nickel ferrite nanoparticles**

Novini N. Y., Jamshidi-Galeh K., Shojaei S. H. R., Tohidi T., Fatemi A., UYAVER Ş.

Journal of Materials Science: Materials in Electronics, vol.35, no.8, 2024 (SCI-Expanded)

III. **Monte Carlo study of magnetic behaviour of single Fe and Ni nanoparticles**

Yousefpour Novini N., UYAVER Ş., Shojaei S. R., Jamshidi-Galeh K., Tohidi T.

Molecular Simulation, vol.50, no.6, pp.441-446, 2024 (SCI-Expanded)

IV. **Synthesis and investigation of toxicity and photothermal effect of NiFe<sub>2</sub>O<sub>4</sub>@Cu core-shell nanoparticles**

Yousefpour Novini N., Jamshidi-Galeh K., Shojaei S. R., Tohidi T., UYAVER Ş.

Physica B: Condensed Matter, vol.666, 2023 (SCI-Expanded)

## Articles Published in Other Journals

I. **Self-assembly Delivery Targets in Pharmaceutical Industry**

Ahmadabadi H. N., UYAVER Ş.

Avicenna Journal of Pharmaceutical Research, 2021 (Peer-Reviewed Journal)

II. **Theta Point Calculation of a Polymer Chain with Electric Dipole Moments: Monte Carlo Simulation**  
UYAVER Ş.

SAKARYA UNIVERSITY JOURNAL OF SCIENCE, vol.24, pp.865-871, 2020 (Peer-Reviewed Journal)

III. **A Proof of Concept for Home Automation System with Implementation of the Internet of Things Standards**

sharif m. h., Ivan D., UYAVER Ş.

Periodicals of Engineering and Natural Sciences, vol.6, no.1, 2018 (Scopus)

IV. **Classification and Detection of Various Geographical Features from Satellite Imagery**

sharif m. h., UYAVER Ş., zerdo z.

Periodicals of Engineering and Natural Sciences, vol.6, no.1, 2018 (Scopus)

V. **Astronomical Objects Detection in Celestial Bodies Using Computer Vision Algorithm**

Sharif M. H., UYAVER Ş.

Computer Science Information Technology, vol.76, pp.45-52, 2017 (Peer-Reviewed Journal)

VI. **Computational Insights Into the Self Assembly of Phenylalanine Based Molecules**

German H., MANIKANTHAN B., UYAVER Ş., Ulrich H.

TASK QUARTERLY, vol.18, no.4, pp.357-363, 2015 (Peer-Reviewed Journal)

VII. **Monte Carlo simulation of ideal polymer chain using parallel computing technique**

KARASULU B., UYAVER Ş.

Moldavian Journal of the Physical Sciences, vol.6, no.3-4, 2011 (Peer-Reviewed Journal)

## Books & Book Chapters

I. **Sentiment analysis of Turkish Twitter data using polarity lexicon and artificial intelligence**

Shehu H. A., sharif m. h., UYAVER Ş., TOKAT S., Rabie R.

in: Emerging Technologies in Computing, Mahdi H. MirazPeter S. ExcellAndrew WareSafeullah SoomroMaaruf Ali, Editor, Springer, pp.113-125, 2020

II. **Ordinary Video Events Detection**

Harris S., UYAVER Ş., HAİDAR S.

in: Computational Modelling of Objects Presented in Images, , Editor, CRC PRESS, NY, pp.311-323, 2012

III. **Crowd Behavior Surveillance Using Bhattacharyya Distance Metric**

Haidar S., UYAYER Ş., Chabana D.

in: Computational Modeling of Objects Represented in Images, R. Bernaba, V Brimkov, H. Haupman, Editor, Springer, Berlin, pp.311-323, 2010

## Refereed Congress / Symposium Publications in Proceedings

- I. **Sentiment Analysis of Turkish Twitter Data Using Polarity Lexicon and Artificial Intelligence**  
SHEHU H. A., SHARIF M. H., UYAYER Ş., TOKAT S., RAMADAN R. A.  
3rd International Conference on Emerging Technologies in Computing, Londrina, Brazil, 19 - 20 August 2020
- II. **Concentration Effects on the Self-Assembly of Tyrosine Molecules: A Molecular Dynamics Simulation**  
Ahmedabadi H. N., Masoudi A. A., UYAYER Ş.  
International Conference on Mathematical Sciences, 17 - 21 June 2020
- III. **Facial Expression Recognition using Deep Learning**  
Shehu H. A., sharif m. h., UYAYER Ş.  
International Conference on Mathematical Sciences, 17 - 21 June 2020
- IV. **Sentiment analysis of Turkish Twitter data**  
SHEHU H. A., TOKAT S., SHARIF M. H., UYAYER Ş.  
INTERNATIONAL CONFERENCE OF MATHEMATICAL SCIENCES, Istanbul, Turkey, 4 - 08 September 2019, vol.2183, pp.800041-800044
- V. **Green Energy Skills for Youth**  
ABEREK B., ABEREK M. K., BOH A., BAYGÜL ÖZPINAR Ş. B., UYAYER Ş., ARAL N., ÖZPINAR M. A., KROBKOV I., GARTSEV I., LUBEJ P.  
3rd International Scientific Conference on Philosophy of Mind and Cognitive Modelling in Education, Maribor, Slovenia, 7 - 08 May 2018
- VI. **Classification of Geographical Features from Satellite Imagery**  
SHARIF M. H., UYAYER Ş., SHARIF M. H. U., İNCE İ. F., ZERDO Z.  
1st International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS 2018), Kolkata, India, 23 - 25 February 2018, vol.814
- VII. **ASTRONOMICAL OBJECTS DETECTION IN CELESTIAL BODIES USING COMPUTER VISION ALGORITHM**  
UYAYER Ş., sharif m. h.  
3rd International Conference on Computer Science, Information Technology and Applications (CSITA-2017), 28 - 29 October 2017
- VIII. **Poster STRUCTURAL ANALYSIS of THE FORMATIONS BY AROMATIC AMINO ACIDS**  
UYAYER Ş., HABİBOĞLU M. G., wang w.  
CBSB16, 23 - 25 May 2016
- IX. **Monitoring System for Drivers of Heavy Vehicles**  
haidar s., GALİP F., selime ö., UYAYER Ş., GÜLER A.  
The International Symposium on Engineering, Artificial Intelligence and Applications, Girne, Cyprus (Kkctc), 4 - 06 November 2015
- X. **Simulation of a weak polyampholyte**  
UYAYER Ş.  
From Computational Biophysics to Systems Biology (CBSB2015), Normandie, France, 17 - 19 May 2015
- XI. **Monte Carlo simulations of a weak poly**  
UYAYER Ş., Naran Narayan K., Shuyu S.  
BioMacrocular Ionic Systems 2015, 10 - 14 May 2015
- XII. **Monte Carlo simulation to investigate the cascade transition of a permuted polyelectrolyte chain**  
UYAYER Ş., BİLGEN B. B.  
Simulation of Multiphysics Multiscale Systems, 9th International Workshop, June 4-6, 2012, Omaha, Nebraska, 1 - 05 May 2012