

**The 2022 International Conference on Innovations in Computing Research (ICR'22)**  
**Athens, Greece, August 29-31, 2022**

**Conference Program**  
**-Online-**

**Monday, August 29, 2022**

**ICR22-Session-1-O Health Informatics, Biomedical Imaging, and Data Science**  
**11.00-12.30, August 29, 2022**

**Session Chair:** Nawzat Sadiq Ahmed  
Duhok Polytechnic University, KRG, IRAQ

**11.00-11.30** Breast Tumor Segmentation in Ultrasound Images Based on U-NET Model  
Epimack Michael, He Ma, and Shouliang Qi  
Northeastern University, Shenyang, China

**11.30-12.00** BeCaked+: An Explainable AI Model to Forecast Delta-spreading Covid-19 Situations for Ho Chi Minh City  
Cuong Nguyen<sup>1,2</sup>, Minh Nguyen<sup>1,2</sup>, Duc Nguyen<sup>1,2</sup>, Duc Nguyen<sup>4</sup>, Thinh Nguyen<sup>1,2</sup>, Khuong Nguyen<sup>1,2</sup>, Chon Le<sup>1,2,3</sup>, and Tho Quan<sup>1,2</sup>  
<sup>1</sup>University of Technology (HCMUT), Vietnam  
<sup>2</sup>Vietnam National University, Vietnam  
<sup>3</sup>Ho Chi Minh City University of Natural Resources and Environment (HCMUNRE)  
<sup>4</sup>Hanoi University of Science and Technology

**12.00-12.30** Detecting the Source Language of the Binary  
Ashish Adhikari, and Prasad A. Kulkarni  
EECS, University of Kansas, USA

**ICR22-Session-2-O Computer and Network Security**  
**1.30-3.30, August 29, 2022**

**Session Chair:** Natasha Ilievska  
Ss. Cyril and Methodius University, Republic of North Macedonia

**1.30-2.00** Towards an Error-Detecting Code  
Natasha Ilievska  
Ss. Cyril and Methodius University, Republic of North Macedonia

**2.00-2.30** Classification of encrypted data Using deep learning and Legendre polynomials

Emad M. Alsaedi, Alaa kadhim Farhan, Mayadah W. Falah, and Bashra  
Kadhim Oleiwi  
University of Technology, Iraq

**2.30-3.00** A Conceptual Model for Data-driven Threat Analysis for Enhancing  
Cyber Security  
Mohammed K. S. Alwaheidi<sup>1</sup>, Shareeful Islam<sup>2</sup>, Spyridon Papastergiou<sup>3</sup>  
<sup>1</sup>University of East London, UK  
<sup>2</sup>Anglia Ruskin University, UK  
<sup>3</sup>University of Piraeus, Greece

**3.00-3.30** Bitcoin as a New Payment Platform  
Vivian Sultan and Garrett Tice  
California State University Los Angeles, USA

## **Tuesday, August 30, 2022**

### **ICR22-Session-3-O Data Science** **9.00-10.30, August 30, 2022**

**Session Chair:** Razwan Mohmed Salah  
University of Duhok, KRG, Iraq

**9.00-9.30** Expanding Queries with Maximum Likelihood Estimators and Language  
Models  
Christos Karras, Aristeidis Karras, and Leonidas  
Theodorakopoulos, Ioanna Giannoukou, and Spyros Sioutas  
University of Patras, Greece

**9.30-10.00** Download Speed Optimization in P2P Networks Using Decision Making  
and Adaptive Learning  
Aristeidis Karras, Christos Karras, Konstantinos C. Giotopoulos, Ioanna  
Giannoukou, Dimitrios Tsolis, and Spyros Sioutas  
University of Patras, Greece

**10.00-10.30** A Systematic Review for Selecting Methods of Document Clustering on  
Semantic Similarity of Online Laboratories Repository  
Saad Hikmat Haji<sup>1</sup>, Karwan Jacksi<sup>2</sup>, and Razwan Mohmed Salah<sup>3</sup>  
<sup>1</sup> Duhok Polytechnic University, KRA, Iraq  
<sup>2</sup> University of Zakho, KRA, Iraq  
<sup>3</sup> University of Duhok, KRS, Iraq

**ICR22-Session-4-O Computer/Network Security and Smart Cities/Energy**  
**11.00-1.00, August 30, 2022**

**Session Chair:** Rouwaida Abdallah  
CEA, France

**11.00-11.30** A Blockchain Based Methodology for Power Grid Control Systems  
Rouwaida Abdallah<sup>1</sup> and Rim Abdallah<sup>2,3</sup>

<sup>1</sup> CEA, LIST, 91120, Palaiseau, France

<sup>2</sup> University Of Le Havre, Le Havre 76600, France

<sup>3</sup> HAROPA PORT, 71 Quai Colbert, 76600 Le Havre, France

**11.30-12.00** Survey on Fake Accounts Detection Algorithms on Online Social  
Networks

Jad Shamseddine, Mohammad Malli, and Hussein Hazimeh  
Arab Open University, Beirut, Lebanon

**12.00-12.30** Real-time Detection of TOR Attacks from the Dark Web  
Selahattin Hürol Türen <sup>1</sup>, Kenneth Eustace<sup>2</sup>, Rafiqul Islam<sup>3</sup> and Geoffrey  
Fellows<sup>2</sup>

<sup>1</sup> Charles Sturt University, Australia

<sup>2</sup> Charles Sturt University, Wagga Wagga, Australia

<sup>3</sup> Charles Sturt University, Albury, Australia

**12.30-1.00** Solar Car Parking for Maximum Power Utilization at the United Arab  
Emirates University: Case Study  
Prinu C Philip<sup>1</sup>, Faris Subaihi<sup>2</sup>, Simon Musgun<sup>1</sup>, Solomon Ghebretatios<sup>1</sup>,  
Fady Alnajjar<sup>2</sup>

<sup>1</sup> UAE University, Al Ain, UAE

<sup>2</sup> UAE University, Al Ain, UAE