IEEE Technically Sponsored
The 10th International Conference on Social Networks Analysis, Management and Security (SNAMS-2023)
Abu Dhabi, UAE Nov 21-24, 2023

PROGRAMME at GLANCE

IEEE Technically Sponsored
The 10th International Conference on Social Networks Analysis, Management and Security (SNAMS-2023)
Abu Dhabi, UAE Nov 21-24, 2023

PROGRAMME at GLANCE

	Tuesday 21/11/2023	Wednesday 22/11/2023	Thursday 23/11/2023	Friday 24/11/2023
08:00 - 17:00	Onsite registration	Onsite registration	Onsite registration	
10:00-10:30	Opening & Welcome			
10:00-10:45	Title: How to secure machine intelligence? Emerging attacks and defenses — Keynote Speaker: Abdallah Khreishah, New Jersey Institute of Technology, USA	Title: A World of "Infinite Possibilities" Enabled with AI — Keynote Speaker: Abhinav Purohit, Chief Expert, Middle East & Central Asia Region, Business & Strategy Consulting, Huawei, UAE	Title: Is there anything that isn't software? — Keynote Speaker: Mike Hinchey, University of Limerick, Ireland	Keynote Title: AI: A Way Forward for Higher Education — Keynote Speaker: Issam Zabalawi
10:45-11:00	11:15-11:30 Coffee Break	Coffee Break	Coffee Break	
11:00 - 12:30	11:30-12:45 Women in STEM Panel	SNAMS Session 4 / SNAMS Social Networks in Education / SNAMS Session 5 / Workshop: Unzipping Danger From	SNAMS Session 9 / SNAMS Social Networks in Education / SNAMS Session 10	
12:30-13:30	LUNCH	LUNCH	LUNCH	
13:30 - 15:00	SNAMS Session 1 / DSEA & BDSN 2023 Workshops Session 1 / SNAMS Session 2 / Poster Competition (Students)	SNAMS Social Networks in Education Session 2 / SNAMS Session 6 / ANLP & SAMSN 2023 Workshop Session 2	SNAMS Online Session 1 / FLLM Session 1 / FLLM Session 2	SOCIAL ACTIVITY and NETWORKING
15:00 - 15:30	Coffee Break	Coffee Break	Coffee Break	
15:30 - 16:30	ANLP & SAMSN 2023 Workshop Session 1 / SNAMS Session 3 / Poster Competition (Students)	SNAMS Session 7 / SNAMS Session 8	SNAMS Online Session 2 / FLLM Session 3	
19:00-22:00		GALA DINNER		

IEEE Technically Sponsored
The 10th International Conference on Social Networks Analysis, Management and Security (SNAMS-2023)
Abu Dhabi, UAE Nov 21-24, 2023

PROGRAMME

Tuesday 21st Nov 2023		
08:00 - 17:00		Onsite registration
10:00- 10:30		Opening & Welcome
10:30 – 11:15		**Keynote Title:** How to secure machine intelligence? Emerging attacks and defenses **Keynote Speaker:** Abdallah Khreishah, New Jersey Institute of Technology, USA **Keynote Chair:** Bassam Harb
11:15- 11:30		**Coffee Break**
11:30 - 12:45		**Panel Title:** Women in STEM **Panel Chair:** Layla Amaireh
12:45- 13:30		**LUNCH**
13:30 - 15:00	SNAMS Session 1	**Chair:** Mohammad Hattab **Hall:** Class 1 • **Trust as a Mediator: Exploring the Relationship between Social Responsibility and Corporate Reputation within Social Systems** Ahmad Aljumah, Mohammed Nuseir, Ghaleb Elrefae, Ahmed Alhiyari, Sarah Urabi and Abdul Razzak Alshehadeh • **"How Does ChatGPT Work" Examining functionality to the creative AI ChatGPT on X's (twitter) platform** Yazan Alahmed, Reema Abadla, Afnan Al Badri and Nardin Ameen • **AI Methods Used for Spam Detection in Social Systems – an overview** Ayman Odeh and Mohammad Al Hattab • **Using GNNs for Misinformation Spreader Detection via Assortativity-Aware Node Label Classification in Twitter Networks** Asep Maulana and Johannes Langguth
13:30 - 15:00	DSEA & BDSN 2023 Workshops Session 1	**Chair:** Muath Al Hasan **Hall:** Class 2 • **The impact of imputation methods on the classification of household devices from electricity usage time series** Roberto Santana • **Role of Social Networks to Improve Satisfaction and Performance of University Students** Ahmad Aljumah, Mohammed. Nuseir, Hasan Abu Hilal, Ghaleb A. Elrefae and Jawaher Al Dhefairi • **Detecting Mobile Payment Fraud: Leveraging Machine Learning for Rapid Analysis** Riham Muqattash and Faten F. Kharbat • **Modeling engagement and disengagement with a social network using the participation continuum** Jonathan Bishop and Ashu M. G. Solo
13:30 - 15:00	SNAMS	**Chair:** Mahmoud Khasawneh **Hall:** Class 3

IEEE Technically Sponsored

The 10th International Conference on Social Networks Analysis, Management and Security (SNAMS-2023)
Abu Dhabi, UAE Nov 21-24, 2023

PROGRAMME

	Session 2	• **A Review of the Factors Influencing Users' Perception of Metaverse Security and Trust** Mousa Al-Kfairy, Ayham Alomari, Mahmood Al-Bashayreh, Omar Alfandi, Mohammad Tubishat and May Ataee • **Exploring Sentiment and Topic Patterns in Metaverse Marketplace-Related Tweets** Ahmed Al-Adaileh, Mousa Al-Kfairy, Mahmoud Khasawneh and Nabil El Moutawakil El Alami • **Finding Context-Based Positive Influence on Twitter: A Conceptualization** Ragini Krishna and Prashanth C.M.
	Coffee Break	
15:30-16:30	ANLP & SAMSN 2023 Workshop Session 1	**Chair:** Sahel Alouneh **Hall:** Class 1
		• **Comparative analysis and graphic design elements to enhance the usability of a university website** Feras Al-Hawari, Rawan Al-Twal, Hala Barham, Attaa Al-Khaleel and Sahel Alouneh • **Sentiment Analysis on Social Media of Public Views Towards Vaccination** Majdi Sawalha, Bayan Abu Shawar, Tarik El Amsy, Nuha Hamada, Ribal Attoun and Anas Al-Momani • **Data Center Location Planning for Social Network Data** Tareq Oshan, Nuha Hamada and Tarik Elamsy • **Joint Trajectory, Power Profile and Harvested Energy Management in Cooperative UAV** Ashfaq Ahmed, Muhammad Naeem, Akhlaque Ahmad and Sabeeh Ahmed
15:30-16:30	SNAMS Session 3	**Chair:** Hussam Al-Rabai'ah **Hall:** Class 2
		• **Blockchain-Based Secure Storage And Sharing Of Medical Data Using Machine Learning** Ahmed S. Almasoud • **Social Network as a "Pull" Communication Strategy in the Healthcare Industry** Jamil Razmak and Wejdan Farhan • **Eco-Psychology in Social Networks: Understanding the Influence of Nature on Online Behavior** Shirin Alimour, Abdellateef Alqawasmi, Ibtehal Mahmoud Aburezeq, Rahima Aissani, Sawsan Taha, Sherin Alamassi and Najeh Rajeh Alsalhi
15:00-16:30	**Poster Students Competition and Winners Announcements**	

IEEE Technically Sponsored
The 10th International Conference on Social Networks Analysis, Management and Security (SNAMS-2023)
Abu Dhabi, UAE Nov 21-24, 2023

PROGRAMME

Wednesday 22nd Nov 2023		
08:00 - 17:00	Onsite registration	
10:00 - 10:45	**Keynote Title:** A World of "Infinite Possibilities" Enabled with AI **Keynote Speaker:** Abhinav Purohit, Chief Expert, Middle East & Central Asia Region, Business & Strategy Consulting, Huawei, UAE **Keynote Chair:** Qutaibah Althebyan	
10:45- 11:00	**Coffee Break**	
11:00- 12:30	**Workshop Title:** Unzipping Danger - From Compression to Compromise **Subtitle:** Navigating WinRAR Vulnerability Landscape and PDF perils. **Presenter:** RedTeam Hacker Academy	
11:00 - 12:30	SNAMS Session 4	**Chair:** Khalaf That **Hall:** Class 1 • **Uncovering the Share Fake News on Social Media During Crisis** Dina Tahat, Khalaf Tahat, Said Salloum, Ahmed Mansoori, Mohammad Habes, Khaled Shaalan, Razaz Waheeb Attar, Noura Naqbi and Emad Algazo • **Understanding social networks and behaviour using ecological cognition: Parametric user modelling for online health communities** Jonathan Bishop, Mark M.H. Goode and Julian Luyiga • **The Mobile Apps Inflammatory and Terrorism in Saudi Arabia** Mokhtar Elareshi, Mohammed Habes, Abdulkrim Ziani and Samar Romdhane • **Investigating the Consequences for the Economy Arising from the Utilization of Mobile Marketing within the Framework of Cybercrime.** Marzouq Al Qeed, Mohammad Daoud, Sharihan Al Jaabari, Fakhre Keelani, Sawsan Taha and Hussen Alsrehan
11:00 - 12:30	SNAMS Social Networks in Education Session 1	**Chair:** Emad Alghazo **Hall:** Class 2 • **Using Social Media in educational research Experiences, Benefits and Challenges** Sherin Alamassi, Khadijeh Naser, Enas Abulibdeh, Azhar Shater, Jihan Yousef and Bushra Abusini • **The Role of Artificial Intelligence in Education from the Perspective of Students** Azhar Shater, Maryam Abualrish, Emad Alghazo, Sherin Abushamon, Wafa Hazaymeh, Jihan Yousef, Khadijeh Naser and Mona Ibrahim • **The Effects of Social Networking Sites on the Academic Performance of Graduate Students** Zuhrieh Shana, Khadijeh Naser, Maryam Abualrish, Eman Zaitoun and Jihan Yousif • **The Effectiveness of Social Networks on Enhancing Student-Teachers' Teaching Experiences in Postgraduate Professional Diploma in Teaching Program** Asmaa Almahdawi, Wafa.A Hazaymeh, Suad Alwaely, Reem Odetalla, Abedelhakeem Hejazi and Ahmed Khaled
11:00 - 12:30	SNAMS Session 5	**Chair:** Khawla Al-Tkhayneh **Hall:** Class 3 • **The Impact of Using WhatsApp Business (API) in Marketing for small business** Hassan Mustafa, Khawlah Al-Tkhayneh, Roohi Imtiaz, Samer Abdel Hadi, Reema Al Qaruty, Reneh Abokhoza and Ziyad Ellala

		The Impact of Digital Marketing through the TikTok Application on Purchase Intent Hasan Alhanatleh, Mahmoud Alghizzawi, Mohammad Habes, Dina Tahat and Khalaf Tahat **Digital Ads via Smart Phones and Purchase Intent** Mahmoud Alghizzawi, Hasan Alhanatleh, Razaz Waheeb Attar, Hamza Alnawafleh, Khalaf Tahat and Dina Tahat
12:30-13:30	**Lunch**	
13:30-15:00	SNAMS Social Networks in Education Session 2	**Chair:** Enas Abulibdeh **Hall:** Class 1 **Physical Education Teachers' Perceptions of Challenges Facing Distance Learning of Physical Education Curriculum** Majed Saleem El-Saleh, Enas Abulibdeh, Khaleel Alarabi, Moath Khalaf Alomery and Abdallah Abu Libdeh **Knowledge Sharing through Academic Social Networking: The Impact of Personal and Social Outcome Expectations** Abdoulaye Kaba, Shorouq Eletter and Ghaleb A. Elrefae **Students' Hindsight Judgments on Physics Education during the COVID-19 Pandemic** Khaleel Alarabi, Firas Ayasrah, Mohannad Alkhalaileh, Ibtehal M. Aburezeq, Hanan Shaher Almarashdi and Mohammad Aleassa **Digital Social Networks and the Consolidation of a Culture of National Excellence: A Student Perspective** Shirin S. Al Odwan and Elham Hussein
13:30-15:00	SNAMS Session 6	**Chair:** Zina Houhamdi **Hall:** Class 2 **Examining the Metaverse Technology Acceptance among the Real-estate Industry in the United Arab Emirates: A Case Study** Riadh Jeljeli, Faycal Farhi and Ala'Aldin Zahra **Delving into the Security & Privacy of the Metaverse Matrix** Said Salloum, Khalaf Tahat, Dina Tahat, Ahmed Mansoori and Raghad Alfaisal **Examining the Ethical Implications of Data Privacy and Targeted Advertising in Digital Marketing: Consumer Perceptions** Mohammad Daoud, Marzouq Al Qeed, Jassim Al-Gasawneh and Abdulkrim Ziani **Augmented Reality: A Game-Changer for Pre-service Teacher Preparation** Bushra S. Abusini, Enas S Abulibdeh, Emad M. Alghazo and Abdalla Abu Libdeh
13:30-15:00	ANLP & SAMSN 2023 Workshop Session 2	**Chair:** Sharhabeel AlNabelsi **Hall:** Class 3 **The Effect of Social Media on Improving the Recruitment Process: Regional Commercial Banks' Employee Engagement as a Mediator** Younes Megdadi, Mahmoud Hussien Abu Jumaa, Mahmoud Alghizzawi, Zaid Megdad, Dina Naser Tahat and Khalaf Tahat **The Impact of Using Social Media Platforms (X) as an Example on Shaping Linguistic Awareness** - Emad Farouq Al-Amarnih, Ziyad Kamel Ellala Ellala, Khawlah M. Al-Tkhayneh and Eman Almasri

PROGRAMME

15:00-15:30		Coffee Break
15:30-16:30	SNAMS Session 7	**Chair:** Moustafa Kandeel **Hall:** Class 1 • **Social Media Marketing & Corporate Sector Customers' Loyalty: The Case Study of the Emirati Telecommunication Sector** Faycal Farhi, Riadh Jeljeli, Moustafa Elmetwaly Kandeel and Alaaldin Zahra Zahra • **Cyber Fusion: Exploring the Synergy of Social Media and Artificial Intelligence in the Digital Age** Suha Alqaruty, Khawlah Al-Tkhayneh, Samer Abdel Hadi, Reema Al Qaruty, and Ziyad Ellala • **A Review Paper on the Current Utilization of WhatsApp for educational purposes** Rami Abdallah, Eman Zaitoun and Imad Mostafa
15:30-16:30	SNAMS Session 8	**Chair:** Rami Mohawesh **Hall:** Class 2 • **Enhancing Legal Writing Skills through Interactive E-Books: A Multilingual Approach** Mohamed El-Zeiny, Moustafa Kandeel, Mohamed Abdo, Mahmoud Abdelghaffar and Ibtehal Aburezeq • **The Crime in Metaverse (the Future Scenarios for Crime Patterns and the Prospective Legal Challenges)** Khawlah M Al-Tkhayneh, Rasheed Olowoselu and Mohammad Alkrisheh • **Generative Adversarial Network (GAN) in Social Network: Introduction, Applications, Challenges and Future directions** Haythem Bany Salameh, Rami Mohawesh, Sumbal Maqsood, Yaser Jararweh and Nuha Alshuqayran • **Fraud Methods in Publishing Researchers' Scientific Papers Using Social Engineering** Khawlah Al-Tkhayneh and Moustafa Kandeel
19:00-22:00		# GALA DINNER

Thursday 23rd Nov 2023		
08:00 - 17:00		Onsite registration
10:00 - 10:45		**Keynote Title:** Is there anything that isn't software? **Keynote Speaker:** Mike Hinchey, University of Limerick, Ireland **Keynote Chair:** Elhadj Benkhelifa
10:45-11:00		**Coffee Break**
11:00 - 12:30	SNAMS Session 9	**Chair:** Mawahib Sulieman **Hall:** Class 1 • **Temporally Stable Multilayer Network Embeddings: A Longitudinal Study of Russian Propaganda** Daniel Matter, Elizaveta Kuznetsova, Victoria Vziatysheva, Ilaria Vitulano and Juergen Pfeffer • **Approximating Temporal Networks from Aggregated Network Data** Raji Ghawi, Michael Benzinger and Juergen Pfeffer • **Data Generation for Effective Prediction and Evaluation** Hsiao-Fan Wang and Cai-Lin Huang

The 10th International Conference on Social Networks Analysis, Management and Security (SNAMS-2023)
Abu Dhabi, UAE Nov 21-24, 2023

PROGRAMME

11:00 - 12:30	SNAMS Social Networks in Education Session 3	**Chair:** Mohammad Alhassan **Hall:** Class 2
		• **The Effect of Quizlet on Vocabulary Achievement, Self-Confidence, and Motivation in a Primary School in Abu Dhabi/UAE** Farah Alabedi, Osama Taani, Suzan Al Abidi, Abdeldjalil Bouzenoun, Enas Abulibdeh and Amjad Owais • **Social Networks Competency in Education Among Working Civil Engineering Students** Ansam Sawalha, Ayah Alkhawaldeh, Nour Betoush, Layla Amaireh, Mohammad Alhassan and Mahir Al Hawamleh • **Metaverse and accounting education: potentials and opportunities in the accounting internship courses** Amer Qasim, Ghaleb A. ElRefae and Shorouq Eletter • **Enhancing Postgraduate Learning Achievement: A Microlearning Approach with Reels and Shorts** Khadijeh Naser, Sherin Alamassi, Zuhrieh Shanaa, Maryam Abualrish, Emad Alghazo, Eman Zaitoun, Enas Abulibdeh and Azhar Shater
11:00 - 12:30	SNAMS Session 10	**Chair:** Riadh Jeljeli **Hall:** Class 3
		• **Exploring Arabic Pre-Trained Langauge Models for Arabic Abstractive Text Summarization** Dhuha Alqahtani and Maha Al-Yahya • **Enhancing Non-Native Speakers' Pronunciation: AI-driven Storytelling with Arabic Emphatic Consonants** Mohamed Elzeiny, Mohammad Faqeeh, Asmaa Almahdawi, Mohamed Abdo, Alanoud Alahbab and Imad Mostafa • **Arabic Sentiment Analysis of Mobile Banking Services Reviews** Safaa Khabour, Dheya Mustafa and Qutaibah Althebyan • **Analysis of Cybersecurity Measures for Detection, Prevention, and Misbehaviour of Social Systems** Ahsan Imtiaz, Danish Shehzad, Fawad Nasim, Muhammad Afzaal, Muhammad Rehman and Ali Imran
12:20- 13:30	**LUNCH**	
	Online session	
13:30- 15:00	SNAMS Online Session 1	**Chair:** Issam Al-Azzoni **Link:** http://surl.li/newci
		• **Using Attention-Based Models to Automate Fake News Detection** Mohammed Al-Alshaqi and Danda Rawat • **Augmented BERT for Online Sarcasm Detection** Hieu Nguyen and Swapna S. Gokhale • **Deep learning for Digital Safety: Cyberbullying Detection in Arabic YouTube Content** Shatha Al Mutawa and Maha Faisal • **Metaheuristic Approach to Artificial Neural Network Optimization** Alhassan Aldabbagh and Syed Mujahid • **A Cloud-Native Knowledge Management Framework for Patient-Generated Health Data** Munir Majdalawieh, Anoud Bani Hani, Haleama Al-Sabbah, Oluwasegun Adedugbe and Elhadj Benkhelifa. • **On Learning Embeddings at the Intersection of Communities and Roles** Susanna Pozzoli and Sarunas Girdzijauskas

The 10th International Conference on Social Networks Analysis, Management and Security (SNAMS-2023)
Abu Dhabi, UAE Nov 21-24, 2023

PROGRAMME

13:30-15:00	SNAMS Online Session 2	**Chair:** Ayman Odeh **Link:** http://surl.li/newhu
		• **Analyzing Derived Network Feature Importance to Identify Location Influence in LBSN** Ramya D Shetty, Saumya Kumar Dewangan and Shrutilipi Bhattacharjee • **SiMiD: Similarity-based Misinformation Detection via Communities on Social Media Posts** Oguzhan Ozcelik, Cagri Toraman and Fazli Can • **Adaptive Constrained ICAMGGMM: An Improvement Over ICA** Ali Algumaei, Muhammad Azam, Manar Amayri and Nizar Bouguila • **The Impact of Big Data Analytics on the E-Commerce Business** Riham Mahmoud Saad, Munir Majdalawieh, Maher Alaraj and Harry J Foxwell. • **Toward Identifying Customer Complaints Of Microsoft Azure And Digital Ocean Cloud Service Providers Using Topic Modeling And Sentiment Analysis** Salem Alghamdi • **A model for optimizing the identification of process variants in Robotic Process Automation** Fatemeh Mohammadi and Iman Raeesi Vanani
13:30-15:00	FLLM Session 1	**Chair:** Zubair Shah Link: https://mbzuai-ac-ae.zoom.us/j/93253082607
		• **AI and Veterinary Medicine: Performance of Large Language Models on the North American Licensing Examination** Mirana Angel, Anuj Patel, Haiyi Xing, Dylan Balsz, Cody Arbuckle, David Bruyette and Pierre Baldi • **Clinical Knowledge and Reasoning Abilities of Large Language Models in Pharmacy: A Comparative Study on the NAPLEX Exam** Mirana Angel, Anuj Patel, Amal Alachkar and Pierre Baldi • **Pushing Boundaries: Exploring Zero Shot Object Classification with Large Multimodal Models** Ashhadul Islam, Md. Rafiul Biswas, Wajdi Zaghouani, Samir Brahim Belhaouari and Zubair Shah • **Potentials of ChatGPT for Annotating Vaccine-Related Tweets** Md. Rafiul Biswas, Farida Mohsen, Zubair Shah and Wajdi Zaghouani • **Breaking Barriers: Can Multilingual Foundation Models Bridge the Gap in Cross-Language Speech Emotion Recognition?** Moazzam Shaukat, Muhammad Usama, Hafiz Shehbaz Ali and Siddique Latif
13:30-15:00	FLLM Session 2	**Chair:** Yaser Jararweh **Link :** https://mbzuai-ac-ae.zoom.us/j/92890921025
		• **The Batch Primary Components Transformer and Auto-plasticity Learning Linear Units Architecture : Synthetic Image Generation Case** Stanislav Selitskiy, Chihiro Inoue, Vitaly Schetinin and Livija Jakaite • **Cyber Security Issues and Challenges Related to Generative AI and ChatGPT** Rajesh Pasupuleti • **Topology-Aware GAN (TopoGAN): Transforming Medical Imaging Advances** Hrishi Patel, Colleen Farrelly, Quincy Hathaway, Jennifer Z Rozenblit, Yashbir Singh, Yassine Himeur, Deepa Deepa, Shadi Atalls, Ashok Chaudhary and Wathiq Mansoor • **The critical role of homotopy continuation in robotic-assisted surgery - Future Perspective** Yashbir Singh, Colleen Farrelly, Quincy A. Hathaway, Aakriti R. Carrubba, Michael Friebe, Yassine Himeur, Deepa Deepa, Shadi Atalls, Ashok Chaudhary and Wathiq Mansoor

PROGRAMME

		• **Elevating Employment Practices in Agricultural Corporations with Large Language Models and AI** Samia Abushanap, Ala Mughaid and Shadi Alzubi
15:00-15:30		**Coffee Break**
15:30-17:00	FLLM Session 3	**Chair: Yaser Jararweh** Link : https://mbzuai-ac-ae.zoom.us/j/92890921025
		Keynote 1: Abhimanyu Mukerji, Amazon Inc. USA. **Title:** Causal Inference, Machine Learning and Social Networks **Keynote 2 :** Prof. Juyang Weng, IEEE Life Fellow, Brain-Mind Institute and GENISAMA, USA **Title :** The First Conscious Learning Algorithm Avoids "Deep Learning" Misconduct
		• **Semantic Compression With Large Language Models** Henry Gilbert, Michael Sandborn, Doug Schmidt, Jesse Spencer-Smith and Jules White • **Can ChatGPT be Your Personal Medical Assistant?** Md. Rafiul Biswas, Ashhadul Islam, Zubair Shah, Wajdi Zaghouani and Samir Brahim Belhaouari

Friday 24th Nov 2023	
10:00-11:00	**Keynote Title: AI: A Way Forward for Higher Education** Keynote Speaker: Issam Zabalawi
14:00	**SOCIAL ACTIVITY and NETWORKING**

PROGRAMME

Keynote Title: How to secure machine intelligence? Emerging attacks and defenses
Keynote Speaker: Abdallah Khreishah, New Jersey Institute of Technology, USA

Abstract: Over the past three decades most research efforts in security and privacy have focused on network and storage security. Recently, Deep Neural Network (DNN) classifiers gain wide adoption in different complex tasks, including natural language processing, computer vision and cyber security. However, the underlying assumption of attack free operating environment has been defied by the introduction of several attacks such as adversarial examples and Trojan backdoor attacks. In Adversarial attacks the adversary perturbs the input examples during inference to force the DNN to misclassify while the adversary in the Trojan Backdoor operates in both training and inference phases. In the training phase the adversary trains the DNN in a way such that it behaves normally when the Trojan trigger does not exist, and it misclassifies if the trigger exists. Given that only the adversary knows the trigger, the users of the DNN will be fooled to trust the DNN model. The adversary can now attach the Trigger to the input examples during inference causing the DNN model to misclassify. In this talk we will discuss our development of several computationally efficient defense approaches for the Adversarial attacks enabling real-time detection of the attack for the first time. We will also discuss our development of an adaptive black-box defense approach for the Trojan Backdoor attack that outperforms the state-of-the-art by studying the relationships among the prediction logits of the DNN. After that we will discuss our recent follow up work in which we show how to jointly combine the above two adversaries to practically launch a new stealthy attack, dubbed AdvTrojan. AdvTrojan is stealthy because it can be activated only when: 1) a carefully crafted adversarial perturbation is injected into the input examples during inference, and 2) a Trojan backdoor is implanted during the training process of the model. We leverage adversarial noise in the input space to move Trojan-infected examples across the model decision boundary, making it difficult to detect. The stealthiness behavior of AdvTrojan fools the users into accidentally trusting the infected model as a robust classifier against adversarial examples. We will also discuss our future research that is focused on expanding the attack and defense mechanisms to new areas such as malicious domain detection, federated learning setting, personalized federated learning, and Graph Neural Networks. We will also discuss several application domains of adversarial as well as Trojan Backdoor attacks.

Biography: Abdallah Khreishah received his Ph.D and M.S. degrees in Electrical and Computer Engineering from Purdue University in 2010 and 2006, respectively. Prior to that, he received his B.S. degree with honors from Jordan University of Science & Technology in 2004. During the last year of his Ph.D, he worked with NEESCOM. In Fall 2012, he joined the Electrical and Computer Engineering department of NJIT as an Assistant Professor and was promoted to Associate Professor in 2017 and Full Professor in 2023. He currently leads the engineering center for distributed machine intelligence at NJIT. His research spans the areas of machine learning, adversarial machine learning, wireless networks, visible-light communication, vehicular networks, and cloud & edge computing. He was involved in research projects totaling more than $15M funded by several agencies such as the National Science Foundation of US, The US Department of Defense, New Jersey Department of Transportation,

PROGRAMME

and the State of New Jersey. He won several awards such as the best presentation award in INFOCOM 2018, the best paper award of ACM GLSVLSI 2023, the best paper award of SDS 2022, a distinguished TPC member of IEEE Infocom 2021, and the best symposium organization award from IWCMC 2018. He is currently serving as an associate editor for several International Journals including IEEE/ACM Transactions on Networking. He served as the TPC chair for WASA 2017, IEEE SNAMS 2014, IEEE SDS - 2014, BDSN-2015, BSDN 2015, IOTSMS-2105. He has also served on the TPC committee of several international conferences, such as IEEE INFOCOM. He has mentored several PhD students who currently hold leading positions in academia as well as the industry. He is a senior member of IEEE and the IEEE EMBS North Jersey chapter chair.

Panel Title: Women in STEM
Panel Chair: Dr. Layla Amaireh

Participants:
- Dr. Mai Al Taee: **Keynote Speaker**
- Eng. Batoul Badawwiyeh: **Keynote Speaker**
- Prof. Ghaleb El Refae: **Panelist**
- Dr. Muna Al Mansouri: **Panelist**
- Eng. Fatima Al Dhaheri: **Panelist**
- Eng. Maryam Al Thani: **Panelist**

IEEE Technically Sponsored
The 10th International Conference on Social Networks Analysis, Management and Security (SNAMS-2023)
Abu Dhabi, UAE Nov 21-24, 2023

PROGRAMME

Keynote Title: A World of "Infinite Possibilities" Enabled with AI
Keynote Speaker: Abhinav Purohit, Chief Expert, Middle East & Central Asia Region, Business & Strategy Consulting, Huawei, UAE

Abstract: This talk will delve into the transformative power of AI in the telecommunications industry and explore how AI-driven solutions can revolutionize service offerings and business models. Abhinav's wealth of experience extends to the forefront of the 5G revolution, where he has actively participated in the launch and commercialization of multiple 5G networks in the region. His insights and expertise will shed light on AI's immense potential to 5G-enabled services, opening doors to a world of limitless possibilities for telcos and ecosystem players.

Discover how AI is reshaping the telecommunications landscape and how Abhinav Purohit and Huawei Consulting are leading the charge in creating a future where "Infinite Possibilities" become a reality, driven by the synergy of AI and 5G technology.

Bibliography: Abhinav Purohit is a Chief Expert in Middle East & Central Asia Region for Huawei consulting. Abhinav has over 17 years of experience helping telcos monetize their network investments – primarily by helping launch new services, tariffs, and marketing campaigns. His current area of focus has been helping industry and ecosystem players plan and monetize 5G-enabled services. He has been involved in the 5G launches & service commercialization of multiple 5G networks in the region.

The 10th International Conference on Social Networks Analysis, Management and Security (SNAMS-2023)
Abu Dhabi, UAE Nov 21-24, 2023

PROGRAMME

Keynote Title: Is there anything that isn't software?

Keynote Speaker: Mike Hinchey, University of Limerick, Ireland

Abstract: In this rapidly changing world, evolving technologies such as Artificial Intelligence, Robotics, Machine Learning, Cloud Computing, Big Data, the Internet of Things, and Mobile Computing are combining to disrupt traditional models and radically change how we live, work, and interact. More importantly, these technologies change the way we live and do business: the world's largest bookstore is a Cloud Computing provider, and the largest fleet of cars in the world is operated by an app provider. Areas such as healthcare have been transformed dramatically, with better analysis, imaging, detection, diagnosis, treatment, robot-assisted surgery, and even significant advances in sharing health records. We eagerly await the day when cars, buses, trucks, and railways are self-driven, and Industry 4.0 is already upon us, and of course we claim the use of AI in just about everything. All of these advances are entirely dependent on software. We ask the question: is there anything that isn't software?

Bibliography: Professor Mike Hinchey is Professor of Software Engineering at University of Limerick, Ireland, where he was previously Head of Department of Computer Science and Information Systems and Director of Lero-the Science Foundation Ireland Research Centre for Software, a national research centre headquartered at University of Limerick. He is Past President of IFIP, the International Federation for Information Processing (www.ifip.org) and Past Chair of the IEEE UK & Ireland Section. He is Director-elect of IEEE Region 8 (Europe, Middle East, Africa) and serves on IEEE Computer Society Board of Governors. Prior to joining University of Limerick, Professor Hinchey was the Director of the NASA Software Engineering Laboratory. In 2009, he was awarded NASA's Kerley Award as Innovator of the Year and is one of only 36 people recognized in the NASA Inventors Hall of Fame. Professor Hinchey holds a B.Sc. in Computer Systems from University of Limerick, an M.Sc. in Computation (Mathematics) from University of Oxford and a PhD in Computer Science from University of Cambridge. Professor Hinchey is a Chartered Engineer, Chartered Engineering Professional, Chartered Mathematician and Chartered Information Technology Professional, as well as a Fellow of the IET, British Computer Society, Engineers Ireland, and Irish Computer Society, of which he is also Past President. He is Editor-in-Chief of Innovations in Systems and Software Engineering: a NASA Journal and Journal of the Brazilian Computer Society. In 2018, he became an Honorary Fellow of the Computer Society of India and was the SEARCC Global ICT Professional of the Year 2018.

PROGRAMME

Keynote Title: AI: A Way Forward for Higher Education
Keynote Speaker: Issam Zabalawi

Abstract: As the higher education landscape undergoes unprecedented changes, artificial intelligence (AI) emerges as a transformative force that promises to shape its future. This engaging talk, "AI: A Way Forward for Higher Education," delves into the profound impact of AI in the academic realm.
Whether you are an academic leader, educator, or technologist, this talk provides a comprehensive overview of the evolving role of AI in higher education and offers valuable insights into the opportunities and challenges that lie ahead in the quest to provide a more dynamic and inclusive learning environment for the next generation of students.

Biography: Prof. Isam Zabalawi was born in Amman, Jordan. He holds Ph.D. in Electrical and Electronics Engineering from Leeds University of England. Prof. Zabalawi was the president of The Arab Academy for Banking & Financial Sciences since 2009 until 2016, he was also the founding President of International University for Science and Technology (IUST) in Syria 2005-2007. Prof. Zabalawi became the Minister of Higher Education and Scientific Research – Jordan 2003-2005. He was the Chancellor of the University of Sharjah from 1999-2003. Now, he is the President at Australian College of Kuwait.

Prof. Zabalawi was the founding minister for establishing the German-Jordanian University in Jordan. He is a well-published research scholar. He was a research fellow with the German Academy of Exchange (DAAD) at the University of Karlsruhe, the Technical University of Hamburg, and the University of Erlangen, Germany. He is a member of many technical societies. he was the chairman of the HEREs (Higher Education Reform Experts) with the European Union Program ERASMUS+ in Jordan until Feb 2017. Prof. Zabalawi is a member of the Arab Thought Forum and a member of the World Affairs Council- Jordan.

IEEE Technically Sponsored
The 10th International Conference on Social Networks Analysis, Management and Security (SNAMS-2023)
Abu Dhabi, UAE Nov 21-24, 2023

PROGRAMME

SNAMS 2023 Committee:

Honory Chair:
* Ghaleb El Refae, Al Ain University, UAE

General Co-Chairs:
* Christian Guetl, Graz University of Technology, Graz, Austria
* Paolo Ceravolo, SESAR Lab, Università degli Studi di Milano, Italy
* Mohammad Alsmirat, University of Sharjah, UAE

OrganizingCo-Chairs:
* Haythem Bany Salameh, Al Ain University, UAE
* Qutaibah A. AlThebyan, Al Ain University, UAE
* Faten Kharbat, Al Ain University, UAE

Technical Program Co-Chairs:
* Mohammad AL-Smadi, Qatar University, Qatar
* Issam Al-Azzoni, Al Ain University, UAE

Publicity Co-Chairs:
* Stanley Ewenike, Staffordshire University, UK
* Sandra Viciano Tudela, Universidad Politécnica de Valencia, Spain

Publication Chair:
* Faten Kharbat, Al Ain University, UAE. (Faten.Kharbat@aau.ac.ae)

Invited Speaker and Panel Co-Chairs
* Imad Saleh, University of Paris 8, France,

Workshops Chair:
* Carlos A. Iglesias, Universidad Politécnica de Madrid, Spain
* Haisam Mohamed Hashim, Staffordshire University, UK

Steering Committee:
* Christian Guetl, Graz University of Technology, Graz, Austria
* Paolo Ceravolo, SESAR Lab, Università degli Studi di Milano, Italy
* Jim Jansen , Computing Research Institute, HBKU, Qatar
* Sandra Sendra Universidad de Granada, Spain
* Yaser Jararweh, Jordan University of Science & Technology, Jordan
* Jaime Lloret Mauri, Universidad Politécnica de Valencia, Spain
* Elhadj Benkhelifa, Staffordshire University, UK.

Local Organizing Committee:
* Zina Houhamdi, Al Ain University, UAE
* Muath Al Hassan, Al Ain University, UAE
* Mohammad Khaled Al-Hattab, Al Ain University, UAE
* Mohammad Daoud, Al Ain University, UAE
* Rami Mohawesh, Al Ain University, UAE

PROGRAMME

* Mahmoud Khasawneh, Al Ain University, UAE
* Musab Hijazi, Al Ain University, UAE
* Yazan Alahmad, Al Ain University, UAE
* Lama Juma Mahmoud, Al Ain University, UAE
* Esraa Hijah, Al Ain University, UAE
* Huda AlHeeh, Al Ain University, UAE
* Nura Shifa, Al Ain University, UAE
* Fathima Navas, Al Ain University, UAE
* Esra AlNashash, Al Ain University, UAE
* Rima Masri, Al Ain University, UAE
* Tamer Saleh, Al Ain University, UAE
* Nouha Hakim, Al Ain University, UAE
* Lina Chehayber, Al Ain University, UAE

Web Chair
* Segun Adedugbe, Staffordshire University, UK

PROGRAMME

VENUE AND ACCOMMODATIONS

The conference will be held at Al Ain University, Al Ain Campus. Al Ain, in the United Arab Emirates (UAE), is an inland oasis city on the eastern border with Oman. It's known as the Garden City for its palm groves and natural springs. Bronze Age remains include tombs on the towering Jebel Hafeet, a mountain to the south, and in Al Hili Archaeological Park, to the north. The central Al Ain National Museum displays artifacts from these sites.

IEEE Technically Sponsored
The 10th International Conference on Social Networks Analysis, Management and Security (SNAMS-2023)
Abu Dhabi, UAE Nov 21-24, 2023

PROGRAMME