# **SMAP 2024 Programme**



Networks and Weighted Sum Model





#### November 21-22, 2024

Department of Informatics and Computer Engineering University of West Attica



Egaleo, Athens, Greece

08:30-08:50

### Day 1 - November 21, 2024

Welcome - Registration

08:50-09:00	SMAP 2024 Opening
	General Chairs of SMAP 2024 - Welcome Greeting
	Assistant Professor Christos Troussas, University of West Attica, Dept. of Informatics and Computer Engineering
09:00-10:20	Session A: Multimodal Data Fusion and Personalization
	Chair: Evaggelos Spyrou, University of Thessaly, GR
	Implementing a Digital Repository for the Cultural and Natural Heritage of the Island of Zakynthos
	Stergios Palamas, Yorghos Voutos, Katerina Kabassi and Phivos Mylonas
	Bridging Decentralized Al and Blockchain: Challenges and Solutions
	Shravan Gaddam
	Integrating IEEE 1451 and IEC 61499 Standards for Enhanced Interoperability in Smart Manufacturing and Transportation Systems
	Vahid Tavakkoli, Kabeh Mohsenzadegan, Witesyavwirwa Vianney Kambale and Kyandoghere Kyamakya
	Personalized Hint Delivery in Multimedia Learning Environments Using Learning Styles: An Integrated Approach with Artificial Neural

10:20-11:20	Keynote #1
	"Identifying social features for modeling emotionally believable human-machine interaction"
	Professor Anna Esposito, University of Campania "Luigi Vanvitelli", Dept. of Psychology

Christos Troussas, Akrivi Krouska, Christos Papakostas, Phivos Mylonas and Cleo Sgouropoulou

11:20-11:40 Coffee Break

11:40-13:20	Session B: Context-Aware Systems and Adaptation Mechanisms
	Chair: Panagiotis Strousopoulos, University of West Attica, GR
	Utilizing Fuzzy Weights for Enhanced User Experience in Virtual Museums
	Christos Papakostas, Christos Troussas, Akrivi Krouska, Phivos Mylonas and Cleo Sgouropoulou
	Rule-Based Reasoning for Hardware Fault Detection in IoT Systems Using Electronic Design Automation Tools  Antonios Pliatsios and Michael Dossis
	Data Mining for Social Network Pattern Recognition: A case study of TikTok in Saudi Arabia  Yaser Miaji and Mohammed Miaji
	A Novel Decentralised Identity Platform using Blockchain
	Sulakshna Puttoo and Roopesh Kevin Sungkur
	Enhancing Collaborative Learning through Virtual Escape Rooms: Impact on Participants' Perceptions
	Akrivi Krouska, Christos Troussas, Panagiotis Karkazis, Phivos Mylonas and Cleo Sgouropoulou

13:20-14:00 Lunch Break

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14:00-15:20	Session C: Knowledge & Data Mining
	Chair: Giorgos Caridakis, University of the Aegean, GR
	A Personalized Fitness Application for Injury Rehabilitation Using Artificial Neural Networks
	Nikolaos Kalofonos, Christos Troussas, Akrivi Krouska, Phivos Mylonas and Cleo Sgouropoulou
	Locating the optimal advertisement location using saliency estimation
	lakovos Raptis, Maria Tsourma, Anastasios Drosou, Stelios Choumas, Marissi Balioussi and Dimitrios Tzovaras
	Towards Seamless Data Translation Based on Data Models: A Hybrid AI Framework for Smart Transportation and Manufacturing
	Kabeh Mohsenzadegan, Vahid Tavakkoli, Witesyavwirwa Vianney Kambale and Kyandoghere Kyamakya
	Leveraging social media for personality prediction with GNNs
	Vasileios Moschopoulos, Maria Tsourma, Anastasios Drosou, Stelios Choumas, Marissi Balioussi and Dimitrios Tzovaras

15:20-16:40	Session D: Intelligent Information Systems
	Chair: Yorghos Voutos, University of West Attica, GR
	Managing Financial Investment and Interest using Blockchain
	Bhuvish Nunkoo and Roopesh Sungkur
	A computational framework for discriminating among different cognitive workloads in EEG signals
	Eleftherios Kontopodis, Christodoulos Serafeim, Dionisis Cavouras, Ioannis Kalatzis and Aikaterini Skouroliakou
	Adversarial Vulnerabilities and Defenses in Social Emotion Recognition
	Koushik Chowdhury and Ashik Mahmud Haydari
	Utilizing Fuzzy Weights to Model Logical Reasoning in Digital Escape Rooms: Dynamic Difficulty Adjustment for Enhanced Digital Skill
	Development
	Christos Troussas, Akrivi Krouska, Christos Papakostas, Phivos Mylonas and Cleo Sgouropoulou

Chair: Akrivi Krouska, University of West Attica, GR MMREC: LLM Based Multi-Modal Recommender System
liahao Tian, Jinman Zhao, Zhenkai Wang and Zhicheng Ding
Personalized Learning via Gamified Virtual Environments: Exploring Insights and Impact
Panagiotis Strousopoulos and Christos Troussas
C-LINK Agent. Connecting social media post generation with recommender systems
Konstantinos Ordoumpozanis, Georgios Trichopoulos and George Caridakis
Crop Yield Recommendation Using Machine Learning
Pooja Bagane, Obsa Amenu, Lahitanshu Das, Omkar Potdukhe, Manraj Singh Gandhi, Sonali Kothari
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19:00	Social Dinner
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# **SMAP 2024 Programme**



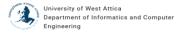




November 21-22, 2024

Department of Informatics and Computer Engineering University of West Attica

Koralia Trikalioti, Dimitrios Kotsifakos and Christos Douligeris



Egaleo, Athens, Greece

08:00-08:30

### Day 2 - November 22, 2024

Registration

08:30-09:50	Session F: Content Manipulation
	Chair: Yorghos Voutos, University of West Attica, GR
	Securix: Mobile Security SDK
	Sonali Kothari, Tejas Ulbhaje, Vishant Kalwani, Yash Mangale, Pooja Bagane
	Al based Digital Journalism: Potential, Challenges and Future Directions
	Zenonas Theodosiou, Venetia Papa and Andreas Lanitis
	Semantic context modeling and extraction with extended, augmented, or virtual reality, for the digital representation of a historical or
	archaeological monument
	Alexandra Nikolopoulou, Dimitrios Kotsifakos, Dimitrios Kiriakos, Yannis Psaromiligkos, Christos Douligeris and Michael Dossis

ı	09:50-10:50	Keynote #2
		"Extended Reality Environments as Emerging Communication and Collaboration Spaces: Prospects and Pitfalls"
		Associate Professor Spyros Vosinakis University of the Aggean Dent of Product and Systems Design Engineering

Where is the wisdom we have lost in knowledge? Where is the knowledge we have lost in information?

10:50-11:10	Coffee Break
11:10-12:30	Session G: Social Media Insights and Analytics
	Chair: Andreas Kanavos, Ionian University, GR
	Social Media Insights into Climate Change: Sentiment Analysis Using VADER and ROBERTa
	Gerasimos Vonitsanos, Andreas Kanavos, Georgios Bardis and Phivos Mylonas
	Enhancing Emotion Classification with a Hybrid BERT and CNN Architecture
	Orestis Papadimitriou, Athanasios Kanavos, Gerasimos Vonitsanos, Manolis Maragoudakis, Panagiotis Karkazis and Phivos Mylonas
	Twitter and Emotions: Exploring Sentiment Detection
	Jose Carmen Morales Castro Castro, Tirtha Prasad Mukhopadhyay, Rafael Guzman Cabrera Mukhopadhyay and John Baker
	Performance and Security Analysis of the Diffie-Hellman Key Exchange Protocol
	Elias Dritsas, Maria Trigka and Phivos Mylonas

12:30-13:50	Session H: Advances in Semantic Web Technologies for Personalization Chair: Maria Trigka, University of West Attica, GR
	Framework for Designing Learning Activities to Manage the Risk of Failure in e-Learning Courses  Anastasia Themeli, Dimitrios Kotsifakos and Yannis Psaromiligkos
	Embodied and Intelligent Approaches to Cultural Information Retrieval  Nikos Fragakis, Georgios Trichopoulos and George Caridakis
	Power Iteration Graph Clustering With functools Higher Order Methods  Georgios Drakopoulos, Georgios Bardis and Phivos Mylonas
	Assessment and modeling of augmented reality applications for the management and automation of systems operating in real spaces: an innovative pedagogical proposal for the educational standards of Vocational Education and Training in Greece Dimitrios Kiriakos, Dimitrios Kotsifakos and Yannis Psaromiligkos

13:50-14:00 SMAP 2024 Closing