

Rosana Wael Marar

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POSITION: Lecturer (Full time)

EDUCATION

MSc. Computer Science , Princess Sumaya University For Technology, Jordan, 2016

BSc. Computer Graphics and Animation- Princess Sumaya University For Technology, Jordan, 2012

WORK EXPERIENCE IN THE DEPARTMENT OF COMPUTER

GRAPHICS

Lecturer in the Department of Computer Graphics and Animation, King Hussein School for Computing Sciences, Princess Sumaya University for Technology (2018 – Until now).

Lab Supervisor in the Department of Computer Graphics and Animation, King Hussein School for Computing Sciences, Princess Sumaya University for Technology (2013 – 2018).

WORK EXPERIENCE AT OTHER DEPARTMENT/ORGANIZATIONS

3D Animator At Gilgamesh Animation Studios, Jordan (2012 – 2013).

RESEARCH INTERESTS

Augmented and Virtual Realities, Education, Computer Algorithms, Neural Networks, Fuzzy Logic.

COURSES TEACHING/TAUGHT

- 12264 3D Modeling
- 12364 3D Animation
- 12367 3D Rigging and Skinning
- 12471 Selected Topics in Computer Animation
- 12479 Advanced Animation
- 12348 Multimedia Systems
- 12267 Video Editing and Production
- 12353 3D Materials and Lighting
- 12242 Webpage Design and Internet programming Lab
- 12376 Computer Animation(1)
- 12477 Computer Animation(2)

OTHER RESPONSIBILITIES

- Supervising Graduation project
- Supervising Practical Training

PUBLICATIONS

- Technology Enhanced Learning using Virtual and Augmented Realities: An Applied Method to Improve the Animation Teaching Delivery, At the 10th International Conference on Knowledge Management and Information Sharing, Spain- Seville, 2018
- Hybrid blockchain, Jordanian journal of computers and information technology, Jordan- Amman, 2020
- A 15-Gbps BiCMOS XNOR Gate for Fast Recognition of COVID-19 in Binarized Neural Networks, Institute of Advanced Engineering and Science (IAES) , International Journal of Electrical and Computer Engineering (IJECE). 2021

- Modified Variable Neighborhood Search Algorithm for Maximum Power Point Tracking in PV Systems Under Partial Shading Conditions, Universitas Ahmad Dahlan TELKOMNIKA , 2022
- A SigFox-Based Blockchain Network For Electronic Health Records, ACM , The 6th International Conference on Algorithms, Computing and Systems (ICACS 2022)
- A Reliable Algorithm for Efficient Water Delivery and Smart Metering in Water-Scarce Regions, Asian Journal of Water, Environment and Pollution, 2024
- Revolutionizing 3D Animation & 3D Modeling Education: A Comprehensive Study on the Impact of Blended Learning, Journal of Higher Education Theory and Practice 24 (7), 36-44 2024.
- The Impact of Motion Graphics versus Text-Based Formats on Anxiety and Learning: A Case Study in Jordan, International Journal of Engineering Pedagogy 15 (1), 2025.
- Improving 3D Animation Education: A Case Study of Curriculum Development in Jordan, International Journal of Engineering Pedagogy 15 (5), 2025
- Enhancing Cultural Learning Through Virtual Reality: A Case Study of the ‘Ain Ghazal Statues, Journal of Information Technology Education: Research 25, 05, 2026

AWARDS AND HONORS

- Best Presentation Award, “A SigFox-Based Blockchain Network For Electronic Health Records” has been selected as the best presentation from all excellent online presentations in the 6th International Conference on Algorithms, Computing and Systems (ICACS 2022), which has been held during September 16-18, 2022.
- The Featured Award for four of my personal 3D Renders by CGSociety, 2018 and 2019