

POSTER SESSION – DAY 1

- 1. Ionic Polymer Metal Composite Micro Hair-like Sensor**
Barbar Akle, Lebanese American University, Lebanon
- 2. Sequencing DNA Using a Solid-State Nanopore**
Aleksei Aksimentiev, University of Illinois at Urbana-Champaign, United States
- 3. Improving Water Consumption for Residential Sustainability using Wireless Sensor Networks**
Mohammed Al Zamil, Yarmouk University, Jordan
- 4. Reaction-Diffusion Framework (RDF): A New Paradigm to Make and Study Nano and Micro-Materials**
Mazen Al-Ghoul, American University of Beirut, Lebanon
- 5. Coordinated Intelligent Load Frequency Control Incorporating Demand Response and Energy Storage System**
Amer Saif Al-Hinai, Masdar Institute, United Arab Emirates
- 6. Broadband Optical Wireless Communications**
Yazan Alqudah, Princess Sumaya University for Technology, Jordan
- 7. Estimation the Effects of Radiation on Human Chromosomes**
Entissar ALSuhaibani, King Saud University, Saudi Arabia
- 8. Simulation Driven Tools for Designing Efficient Data Centers for Big Data Applications**
Ali Butt, Virginia Tech, United States
- 9. Self Assembly of DNA-Based Nanodevices**
Carlos Castro, The Ohio State University, United States
- 10. Materials that Couple Sensing, Actuation, Computation, and Communication**
Nikolaus Correll, University of Colorado, United States
- 11. Resource Allocation in Heterogeneous Cloud Radio Access Networks: Advances and Challenges**
Hayssam Dahrouj, Effat University, Saudi Arabia
- 12. Optimal Topology Design for Dynamic Networks**
Ran Dai, Iowa State University, United States
- 13. Nanomechanics of Advanced Materials for Next-Generation Biomaterials and Electronics**
Frank DelRio, National Institute of Standards and Technology, United States
- 14. Antibacterial Effect of TiO₂ Nanoparticles**
Nashwa Eassa Mohamed, Al Neelain University, Sudan
- 15. Unified Framework for Coarse-Grained Modeling of Plastic Deformation in Metals and Polymers**
Jaafar El-Awady, Johns Hopkins University, United States

16. IoT for Mobile Healthcare: Towards Cost-effective mHealth for Underserved Communities

Tamer ElBatt, Nile University and Cairo University, Egypt

17. CoShare: A Cost-effective Data Sharing System for Data Center Networks

Imen Filali, National Engineering School of Gabes, Tunisia

18. Molecular Engineering of Cell-Interactive Biomaterials

Abbygail Foster, Stanford University, United States

19. Transformational Electronic Sensor Systems For Transformative Applications

Muhammad Hussain, King Abdullah University of Science and Technology, Saudi Arabia

20. A Look at the PROBE Lab at Illinois: From Plasmonic Nanoantennas to Second-Harmonic Generation Microscopy

Kimani Toussaint, University of Illinois at Urbana-Champaign, United States

POSTER SESSION – DAY 2

- 1. Privacy and the Quantified Self**
Tyrone Grandison, General Services Administration, United States
- 2. Printed Flexible Sensors for Low Cost Diagnostics in Developing Countries**
Ala'aldeen Al-Halhouli, German Jordanian University, Jordan
- 3. Data-Driven Social Sensor Networks (with Applications in Mobile Health, Education and Public Safety)**
Ahmed Helmy, University of Florida, United States
- 4. Integrated Photonics for Ubiquitous Sensing**
Juejun Hu, Massachusetts Institute of Technology, United States
- 5. SDIoT: A Software Defined Based Internet of Things**
Yaser Jararweh, Jordan University of Science and Technology, Jordan
- 6. Convergence and Fluctuations of Regularized Tyler Estimators**
Abla Kammoun, King Abdullah University of Science and Technology, Saudi Arabia
- 7. A Universal Platform for Oligonucleotide and Biomarker Sensing**
Pierre Karam, American University of Beirut, Lebanon
- 8. Design an E-Health Monitoring and Fall Detection System for the Elderly People**
Ala Khalifeh, German Jordanian University, Jordan
- 9. Piezotransistive Microelectromechanical Systems for Sensing Applications**
Goutam Koley, Clemson University, United States
- 10. Music Recommendation through Multimodal Sensing**
Gert Lanckriet, UC San Diego, United States
- 11. Flexible Strain Sensor Based on Lightweight Metal Particle Thin Film for Biomedical Applications**
Qizhen Li, Washington State University, United States
- 12. Wireless Smart Sensors for Control of Civil Infrastructure**
Lauren Linderman, University of Minnesota, United States
- 13. Energy-Aware and Data-Intensive Software for Cyber-Physical Systems**
(Yu) David Liu, State University of New York at Binghamton, United States
- 14. Use of Hyperspectral Data for Monitoring Coastal Areas for Halophytes Cultivation at Commercial Scale**
Dionysia-Angeliki Lyra, International Center For Biosaline Agriculture, United Arab Emirates
- 15. Direct Electrochemical Sensing of Mycotoxins in Food**
Mouna Marrakchi Ep Sellami, Higher Institute of Applied Biological Science, Tunisia

16. Wireless Vehicular Networks for Car Collision Avoidance

Rola Naja, Lebanese University-Faculty of Science, Lebanon

17. Nanotechnology for Future Low Power Memory

Ammar Nayfeh, Masdar Institute, United Arab Emirates

18. Measuring the Oldest Light in the Universe with Superconducting Sensors

Michael Niemack, Cornell University, United States

19. A Low-Power Wearable Electronic Nose based on a Capacitive Micromachined Ultrasonic Transducer (CMUT) Array

Omer Oralkan, NC State University, United States

20. Development of Fluorescence based Nanocapsules and Nanomaterials for Biosensing Applications

Digambara Patra, American University of Beirut, Lebanon

POSTER SESSION – DAY 3

- 1. Intrabody-Communications for Smart Wearable Healthcare Systems**
Ahmed M. Eltawil, University of California, Irvine, United States
- 2. Advanced Sensing Techniques and Modeling Approaches for Improved Agricultural Water Use**
Matthew McCabe, King Abdullah University of Science and Technology, Saudi Arabia
- 3. Environmental Assessment and Monitoring with the Use of Advanced Analysis of Earth Observation Data**
George Mitri, University of Balamand, Lebanon
- 4. Ferrocene-Decorated Gold Nanoparticles for Assessing Host-Guest recognition in Biosensors**
Noureddine Raouafi, University of Tunis El-Manar, Tunisia
- 5. New Frontiers for Infrared Sensing in Electrical and Computer Engineering**
Sherief Reda, Brown University, United States
- 6. Nanoscale Mechanosensors for DNA Diagnostics and Cell Biology**
Khalid Salaita, Emory University, United States
- 7. Optimizing Water Usage of Irrigation Systems using Wireless Sensor Networks in Jordan**
Samer Samarah, Yarmouk University, Jordan
- 8. Mapping of Soil Erosion Risk Areas by Water under Arid Climate in Tunisia using Remote Sensing And GIS Tools**
Mohamed Moncef Serbaji, Sfax University, Tunisia
- 9. INFORMATION and Resource Management (INFORM): Applications for Toxic Plume Tracking and Space Situational Awareness**
Puneet Singla, University at Buffalo, United States
- 10. Full-Duplex Wireless Communication by Means of Reflected Power**
Besma Smida, Purdue University, United States
- 11. Probabilistic Methods for Reliability Assessment of Complex Infrastructure Networks**
Iris Tien, Georgia Institute of Technology, United States
- 12. Data-Driven Inference in Computational Physiology**
Linwei Wang, Rochester Institute of Technology, United States
- 13. Chemical Biology Sensors for Membrane Curvature and Lipid Composition**
Hang Hubert Yin, University of Colorado Boulder, United States
- 14. Next-Generation Screening Strategies for Integrative Subtyping and Target Identification For Kras-Mutant Cancer**
Tina Yuan, Dana Farber Cancer Institute and Broad Institute, United States