Thursday

Quality: Quintessential or Questionable?

Moderator: Nina Matulis, MS		Co-Moderator: Mary Adedayo, PhD
8:10 am – 8:30 am	C1	A Framework for Systematic Error Mitigation for Digital Evidence Eoghan Casey, PhD*
8:30 am – 8:50 am	C2	NoSQL Database Forensics: An Analysis of Redis Logs Muhammad Abdul Moiz Zia, BCS*; Oluwasola Mary Adedayo, PhD*
8:50 am – 9:10 am	С3	Reimagining the Forensic Pipeline Out of Necessity Mark Guido, MS*; Justin Grover, MS*
9:10 am – 9:30 am	C4	Bias in Bytes: Practitioner Awareness in Digital Forensics Chris Shennan, MASc*
9:30 am – 9:50 am		BREAK

Mobile Devices: Movable Mastery or Manipulating Minds?

Moderator: Cole Whited	otton, M	5
9:50 am – 10:10 am	C5	A Forensics Investigation of the Social Networking Application: Tencent QQ on iOS and Android Yufeng Gong, MS*; Umit Karabiyik, PhD*
10:10 am – 10:30 am	C6	A Story of Obsession: Data Analysis of a Stalker's Mobile Phone Device Nicole Odom, MSFS*
10:30 am – 10:50 am	С7	ImageRec: A Tool for Android In-Memory Code Reconstruction Aisha Ali-Gombe, PhD*
10:50 am – 11:10 am	C8	The Reliability of Confidence Factors in iPhone GPS Data for Forensic Applications Jeff Rutherford, BS*; Romy Haas, BA; Danielle Ponce de Leon, BS
11:10 am – 11:30 am	C9	Using TikTok Around the World: A Comparison and Updated Forensic Analysis of TikTok on Android and iOS Xiao Hu, MS*; Umit Karabiyik, PhD*
11:30 am – 1:10 pm		BREAK

Internet of Things (IoT): Integrating or Isolating?

Moderator: Alex Nelson, PhD		Co-Moderator: Sneha Sudhakaran, PhD
1:10 pm – 1:30 pm	C10	A Forensic Analysis of Google Fit App on WearOS Chen Shi, MS*; Yong Guan, PhD
1:30 pm – 1:50 pm	C11	Unveiling Sleep Patterns: Insights From Garmin FIT Protocol Data Nina Matulis, MS*; Jenna Rockhold, BS*; Marcus Rogers, PhD*; Umit Karabiyik, PhD*
1:50 pm – 2:10 pm	C12	Utilizing Smart Watches in Forensic Science: A Case Study on Verifying Witness Statements and Tracking Drug Ingestion Ashraf Mozayani, PhD*
2:10 pm – 2:25 pm		BREAK

Computers: Creating or Curtailing?

Moderator: Umit Karabiyik, PhD			
2:25 pm – 2:45 pm	C13	DarkWeb Investigations Using Offensive Security Techniques Gabriel Nunes, BS*	
2:45 pm – 3:05 pm	C14	The Combination of Non-Obvious Links in Online Fraud Investigations Timothy Bollé, MS*; Eoghan Casey, PhD; Thomas Souvignet, PhD	
3:05 pm – 3:25 pm	C15	Principles of Locality of Reference: A Proposal to Reduce the Scope of Forensic Analysis in Cases Occurring in the Cyber Environment Gustavo Vilar, MS*	
3:25 pm – 3:40 pm		BREAK	

Tools and Standards: Testing or Trusting?

Moderator: Vir Phoha, PhD			
3:40 pm – 4:00 pm	C16	Is It a Transformation? Is It Tyranny? Is It Even Cost Effective? The Value of Independent Software Testing Your Technology Marc Canellas, PhD*	
4:00 pm – 4:20 pm	C17	The Limitations of Digital Forensics Tools for Database System Examination Bhavye Malhotra, BS*; Oluwasola Mary Adedayo, PhD*	
4:20 pm – 4:40 pm	C18	Standards Development Activities in Digital and Multimedia Forensic Science Tracy Walraven, MFS*	

Friday

Biometrics: Building Boundaries or Bridges?

Moderator: Andrew Crouse, BA		
8:20 am – 8:40 am	C19	Facial Identification Scientific Working Group Update Nicole Spaun, PhD*
8:40 am – 9:00 am	C20	An Update on the Status of a Facial Identification Certification Program Steven Johnson, BS*
9:00 am – 9:20 am	C21	Distinguishing Head Poses From Camera Angles in Non-Frontal Images for Automated Face Identification Petra Urbanova, PhD*; Tomas Goldmann, PhD
9:20 am – 9:40 am	C22	A Global Interlaboratory Study: Assessing Consistency of Source Opinions for Face, Hands, and Clothing Image Pairs Kelly Meiklejohn, PhD*; Chau-Wai Wong, PhD; Melissa Scheible, MFS; Jane Harris, PhD; Christina Malone, MSFS; Lora Sims, AS
9:40 am – 10:00 am		BREAK

Multimedia: Managing Morally or Maliciously Misleading?

Moderator: Thomas Moore, MS		
10:00 am – 10:20 am	C23	An Evaluation of Interpolation Methods and Their Impact on Resizing Images: Is the Nearest Neighbor Algorithm the Best Solution in All Situations? Jason Latham, MS*; Douglas Lacey, MS
10:20 am – 10:40 am	C24	Identifying Social Media Video Provenance Through Forensic Structural Analysis Clarissa Tan, MS*; Brandon Epstein, MS*; Bertram Lyons, MA*
10:40 am – 11:00 am	C25	The Application of Likelihood Ratios to Audio Authentications: Selected Preliminary Results James Zjalic, MS*
11:00 am – 11:20 am	C26	Keeping Up With the Times: Are Standards Meeting the Needs of Rapidly Expanding Technology in Forensic Multimedia Analysis? Christina Malone, MSFS*; Wendy Dinova-Wimmer, BS*
11:20 am – 1:10 pm		BREAK

Artificial Intelligence (AI): Advancing or Alarming?

Moderator: Joseph Remy, JD		Co-Moderator: Kyp Stavrou, BA
1:10 pm – 1:30 pm	C27	Detecting Generative AI Through the Structural Analysis of Multimedia Files Nicole Odom, MSFS*
1:30 pm – 1:50 pm	C28	Artificial Intelligence for Image and Video Forensics: Mine of Information or Minefield? Marco Fontani, PhD*; Martino Jerian, MS; Blake Sawyer, BBA
1:50 pm – 2:10 pm	C29	Deepfake Detection: Technology as a Tool for Transformation or Tyranny Zeno Geradts, PhD*
2:10 pm – 2:30 pm	C30	Leveraging Artificial Intelligence for Advancements in Forensic Science: The Al4Forensic Lab Zeno Geradts, PhD*
2:30 pm – 2:50 pm	C31	The Development of a Responsible AI Framework Suitable for Forensic Science Needs Janet Stacey, MS*; Deepak Karunakaran, PhD; Rachel Fleming, PhD; Dion Sheppard, MS
2:50 pm – 3:10 pm		BREAK

Behind the Screen: Benevolent Brainstorming or Bad Behavior?

Moderator: Jason Lewis, PhD		Co-Moderator: Chad Johnson, PhD
3:10 pm – 3:30 pm	C32	Attitudes Toward and Barriers to Mental Health Support for Digital & Multimedia Forensic Examiners Sonali Tyagi, MS*; Kathryn Seigfried-Spellar, PhD*
3:30 pm – 3:50 pm	C33	Emerging Ethical and Technical Challenges in Digital Profiling Chad Steel, PhD*; Angel Morningstar, MS*
3:50 pm – 4:10 pm	C34	Exploring Fantasy Enactment and Self-Disclosure Themes in Offender-to-Offender Communication: A Comparative Study of Adult and Peer-to-Peer Groomer Digital Evidence Reeya Ramasamy*; Tatiana Ringenberg, PhD*; Kathryn Seigfried-Spellar, PhD*
4:10 pm – 4:30 pm	C35	Proactive Detection of Child Sexual Abuse Material: Predicting Victim Risk From App Usage, Media Content, and Messaging Behaviors Nina Matulis, MS*; Kathryn Seigfried-Spellar, PhD*; Marcus Rogers, PhD*