# QUESTIONED DOCUMENTS

**Thursday**

## Security Designs, Alterations, and Counterfeiting

<table>
<thead>
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<th>Session</th>
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<tbody>
<tr>
<td>8:30 AM – 9:00 AM</td>
<td>K1</td>
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<tr>
<td>9:00 AM – 10:00 AM</td>
<td>K2</td>
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<tr>
<td>10:00 AM – 10:30 AM</td>
<td>BREAK</td>
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<tr>
<td>10:30 AM – 10:45 AM</td>
<td>K3</td>
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<td>10:45 AM – 11:15 AM</td>
<td>K4</td>
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<tr>
<td>11:15 AM – 11:45 AM</td>
<td>K5</td>
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<tr>
<td>11:45 AM – 1:30 PM</td>
<td>BREAK</td>
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### K1 An Examination of Questioned Documents Using Digital Grid Overlays

**Mark Goff, BA**; **McKenzie Weyh, BS**


**Traci Moran, MFS**

### K3 The Characterization of Polymers of Counterfeit Identity Documents of European Union (UN) Member States

**Jasna Galekovic**; **Veronika Marinovic, PhD**; **Andrea Ledic, MS**

### K4 Scientific Instruments to Forensically Examine Booklet Perforations

**George Virgin, MS**

### K5 Fraud and the United States Postal Service (USPS): A Focus on Stamps

**Lisa Tolli, MS**; **Patricia Manzolillo, MSFS**; **Stephanie Kingsbury, MSFS**; **Haley Elliott, MS**

## Forensic Document Examination Standards Development and Trending Topics

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<td>2:00 PM – 3:00 PM</td>
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### K6 An Update on Standards Development Activities Related to Forensic Document Examination

**Kevin Kulbacki, MSFS**

### K7 The Forensic Document Examination (FDE) Steering Committee

**Timothy Campbell, BSc**

### K8 The Forensic Document Examination (FDE) Forum

**Carl McClary, MS**; **Karen Nobles, MFS**; **Samiah Ibrahim, BA, BSc**

## Poster Session

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<td>11:30 AM – 1:00 PM</td>
<td>K9</td>
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<td>K10</td>
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### K9 Black-Box Metamodeling Between Feature Combinations for Paired Comparisons of Documents of Forensic Handwriting Data

**Cami Fuglsby, MS**; **Christopher Saunders, PhD**; **Danica Ommen, PhD**; **JoAnn Buscaglia, PhD**

### K10 Fontastique! Framework for the Comparison and Evaluation of Currently Available Typeface Identification Applications for the Modern Forensic Document Examiner

**Zain Bhaloo, MSc**; **BSch**

*Presenting Author*
K11  11:30 AM – 1:00 PM  Handwriting Variability in Adult Writers With Attention Deficit Hyperactivity Disorder (ADHD) Pre- and Post-Medication: A Pilot Study
Christopher Burke, MS*; Heidi Harralson, MA; Larry Miller, PhD

K12  11:30 AM – 1:00 PM  Quantifying Bayes Factors for Forensic Handwriting Evidence
Anyesha Ray, BS*; Danica Ommen, PhD

K13  11:30 AM – 1:00 PM  Quantifying Writer Variance Through Rainbow Triangle Graph Decomposition of the Common Word “the”
Alexandra Arabio, BS*; Alicia Carriquiry, PhD; Danica Ommen, PhD

K14  11:30 AM – 1:00 PM  Training, Education, and Certification of Forensic Document Examiners in the United States
Lauren Turnacioglu, BA*; Lyndsie Ferrara, PhD; Gary Licht, MS; Khody Detwiler, BS

K15  11:30 AM – 1:00 PM  Twin Convolutional Neural Networks to Classify Writers Using Handwriting Data
Pilhyun Lim, MS*; Danica Ommen, PhD

Friday
Handwriting, Algorithms, and Ink Analysis and Evaluation

Moderator: TBD        Co–Moderator: TBD

8:30 AM – 8:45 AM  K16 A Comparison of FLASH ID and Handwriter: Two Handwriting Analysis Programs
Stephanie Reinders, PhD*; Danica Ommen, PhD; Alicia Carriquiry, PhD

8:45 AM – 9:00 AM  K17 Determining Authorship Among the Handwriting of Fifth Graders: A Case Study
Sandra Raudabaugh, BS*

9:00 AM – 9:15 AM  K18 Handwriting Comparison Examinations With Limited Known Writing Samples
Donald Moryan, BS*

9:15 AM – 9:30 AM  K19 Signature Verification Algorithms: What They Are, How They Are Used, and How to Evaluate Them
Kevin Kulbacki, MSFS*; Nikolaos Kalantzis, MSc; Batya Fuchs, MSc

9:30 AM – 10:00 AM  BREAK

10:00 AM – 10:15 AM  K20 Signature Verification Algorithms: Potential Forensic Uses and Bias Considerations
Kevin Kulbacki, MSFS*; Nikolaos Kalantzis, MSc; Batya Fuchs, MSc

10:15 AM – 10:45 AM  K21 The Robert Durst Case: Revisiting Myths of Handprinting Examinations
Linton Mohammed, PhD*; Lloyd Cunningham

10:45 AM – 11:00 AM  K22 A Failure Analysis of Ink Samples Using Multiple Modes of Pyrolysis-Gas Chromatography/Mass Spectrometry (PY-GC/MS)
Athena Nguyen, BS*

11:00 AM – 11:15 AM  K23 A Spectroscopic Evaluation of Two Black Pen Inks Using Video Spectral Comparator
Rafal Turek, MS*

*Presenting Author