# Program of E-Forensics 2010

10-12 November 2010, Shanghai, China

## Wednesday, 10 Nov.  Hotel Grand Mercure Hongqiao

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:00-20:00</td>
<td>Registration on site</td>
</tr>
<tr>
<td>17:00-21:00</td>
<td>Reception (Buffet dinner)</td>
</tr>
</tbody>
</table>

## Thursday, 11 Nov.

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>08:30-09:10</td>
<td>Welcome and Opening Ceremony</td>
</tr>
<tr>
<td>09:10-09:25</td>
<td>Photo Session</td>
</tr>
<tr>
<td>09:25-10:05</td>
<td>Invited talk: Patrick S. P. Wang</td>
</tr>
<tr>
<td>10:05-10:20</td>
<td>Coffee break</td>
</tr>
<tr>
<td>10:20-12:20</td>
<td>S1a: Data Carving, computer forensics</td>
</tr>
<tr>
<td>10:20-12:20</td>
<td>S1b: Multimedia and Motion analysis</td>
</tr>
<tr>
<td>12:20-13:50</td>
<td>Lunch</td>
</tr>
<tr>
<td>13:50-15:10</td>
<td>S2a: Crypto-technique</td>
</tr>
<tr>
<td>13:50-15:10</td>
<td>S2b: Device forensics</td>
</tr>
<tr>
<td>15:10-15:30</td>
<td>Coffee break</td>
</tr>
<tr>
<td>15:30-17:10</td>
<td>S3: Fraud</td>
</tr>
<tr>
<td></td>
<td>E-Forensics Law Workshop</td>
</tr>
<tr>
<td></td>
<td>15:30-17:10 Workshop</td>
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<td></td>
<td>Conference Dinner</td>
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## Friday, 12 Nov.

<table>
<thead>
<tr>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>09:00-09:40</td>
<td>Invited talk: Rongsheng Xu</td>
</tr>
<tr>
<td>09:40-10:00</td>
<td>Coffee break</td>
</tr>
<tr>
<td>10:00-11:40</td>
<td>S4: evidence</td>
</tr>
<tr>
<td>11:40-13:10</td>
<td>Lunch</td>
</tr>
<tr>
<td>13:10-13:50</td>
<td>Invited talk: Pauline C. Reich</td>
</tr>
</tbody>
</table>
13:50-14:50   S5: record tracing
14:50-21:00  Sightseeing

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E-Forensics 2010: detailed Program
10-12 November 2010, Hotel Grand Mercure Hongqiao, Shanghai, China

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Wednesday, 10 Nov.

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<tr>
<td>08:30-12:00</td>
<td>Conference on site registration</td>
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<tr>
<td>08:30-09:10</td>
<td>Welcome and Opening Ceremony: Dawu Gu</td>
</tr>
<tr>
<td>08:30-08:35</td>
<td>General chair, professor Dawu Gu, introduces the attending leaders and the honored guests</td>
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<tr>
<td>08:35-08:40</td>
<td>Speech by Chengliang Zheng, Vice President of Shanghai Jiao Tong University</td>
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<tr>
<td>08:40-08:45</td>
<td>Speech by Zhichun Du, Secretary of the Party Committee of East China University of Political Science and Law</td>
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<tr>
<td>08:45-08:50</td>
<td>Speech by Chuanping Hu, Superintendent of the 3rd Research Institute of Ministry of Public Security</td>
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<tr>
<td>08:50-08:55</td>
<td>Speech by Boqin Li, Director of the Office of Judicial Authentication Management, Shanghai Municipal Justice Administration</td>
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<tr>
<td>08:55-09:10</td>
<td>Program chair, professor Xuejia Lai, introduces the preparation of the E-Forensics 2010 conference and announces the best paper awards</td>
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<tr>
<td>Time</td>
<td>Event</td>
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</tr>
<tr>
<td>09:00-09:25</td>
<td>Photo session</td>
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<tr>
<td>09:25-10:05</td>
<td>Invited Talk (I): Session Chair: Hui Li</td>
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<tr>
<td>10:05-10:20</td>
<td>Coffee break</td>
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**Orchid room**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 1a: Data Carving and computer forensics</th>
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<tbody>
<tr>
<td>10:20-10:40</td>
<td>Fast In-Place File Carving For Digital Forensics</td>
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<tr>
<td></td>
<td>Xinyan Zha and Sartaj Sahni</td>
</tr>
<tr>
<td>10:40-11:00</td>
<td>A Novel Inequality-based Fragment File Carving Technique</td>
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<td></td>
<td>Hwei-Ming Ying and Vrizlynn L. L. Thing</td>
</tr>
<tr>
<td>11:00-11:20</td>
<td>On Achieving Encrypted File Recovery</td>
</tr>
<tr>
<td></td>
<td>Xiaodong Lin, Chenxi Zhang, and Theodora Dule</td>
</tr>
<tr>
<td>11:20-11:40</td>
<td>Research and Review on Computer Forensics</td>
</tr>
<tr>
<td></td>
<td>Hong Guo, Bo Jin</td>
</tr>
<tr>
<td>11:40-12:00</td>
<td>Network Connections Information Extraction of 64-bit Windows 7 Memory Images</td>
</tr>
<tr>
<td></td>
<td>Wang Lianhai, Xu Lijuan, and Zhang Shuhui</td>
</tr>
<tr>
<td>12:00-12:20</td>
<td>Study on integrity of chain of custody in computer forensics</td>
</tr>
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<td></td>
<td>Yi Wang</td>
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<tr>
<td>12:20-13:50</td>
<td>Lunch</td>
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**Dragon room**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 1b: Multimedia and Motion analysis</th>
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<tbody>
<tr>
<td>10:20-10:40</td>
<td>RICB: Integer Overflow Vulnerability Dynamic Analysis via Buffer Overflow</td>
</tr>
<tr>
<td></td>
<td>Yong Wang, Dawu Gu, Jianping Xu, Mi Wen and Liwen Deng</td>
</tr>
<tr>
<td>10:40-11:00</td>
<td>Behavior Clustering for Anomaly Detection</td>
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<td></td>
<td>Xudong Zhu, Hui Li, and Zhijing Liu</td>
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<tr>
<td>11:00-11:20</td>
<td>Enhance Information Flow Tracking with Function Recognition</td>
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<td></td>
<td>Kan Zhou, Shiqiu Huang, Zhengwei Qi, Jian Gu, Beijun Shen</td>
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<tr>
<td>11:20-11:40</td>
<td>Indicator association rules for detecting pirate MP3 files and an ethical analysis of a post-payment system</td>
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<td></td>
<td>Heikki Kokkinen, Markus Miettinen</td>
</tr>
<tr>
<td>11:40-12:00</td>
<td>A H.264/AVC Video Watermarking Scheme in VLC Domain for Content Authentication</td>
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<tr>
<td></td>
<td>Tanfeng Sun, Xinghao Jiang, Zhigao Lin, Yue Zhou, Huan Lu</td>
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<tr>
<td>12:00-12:20</td>
<td>Color Filter Array Synthesis in Digital Images via Dictionary Re-demosaicing</td>
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<td>Sunguangling, Shenzhoubiao</td>
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**Session 2a: Crypto-techniques**

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<tr>
<th>Time</th>
<th>Session 2a: Crypto-techniques</th>
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<tbody>
<tr>
<td>13:50-14:10</td>
<td>A Special ID-based Proxy Signature Scheme from Bilinear Pairings</td>
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**Session 2b: Device forensics**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 2b: Device forensics</th>
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<tbody>
<tr>
<td>11:00-11:20</td>
<td>Acquisition of Network Connection Status Information from Physical</td>
</tr>
<tr>
<td>13:50-14:10</td>
<td>Session Chair: Vrizlynn Thing</td>
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<tr>
<td></td>
<td>Session Chair: Ping Ji</td>
</tr>
<tr>
<td>Time</td>
<td>Title</td>
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<tr>
<td>14:10-14:30</td>
<td>Memory on Windows Vista Operating System</td>
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<tr>
<td>14:30-14:50</td>
<td>A novel forensics analysis method for evidence extraction from unallocated space</td>
</tr>
<tr>
<td>14:50-15:10</td>
<td>Live Memory Acquisition through FireWire</td>
</tr>
<tr>
<td>15:10-15:30</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>15:30-15:50</td>
<td>A Stream Pattern Matching Method for Traffic Analysis</td>
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<tr>
<td>15:30-15:50</td>
<td>Face and Lip Tracking For Person Identification</td>
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<tr>
<td>15:50-16:10</td>
<td>Text Content Filtering Based on Chinese Character Reconstruction from Radicals</td>
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<tr>
<td>16:10-16:30</td>
<td>Research on the Helper of EnCase for Digital Evidences in Uyghur-Kazak-Kyrgyz</td>
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<td>16:10-16:30</td>
<td>On Different Categories of Cybercrime in China</td>
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<tr>
<td>16:30-16:50</td>
<td>A Privilege Separation Method for Security Commercial Transactions</td>
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<tr>
<td>16:30-16:50</td>
<td>Research on the Application Security Isolation Model</td>
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<td>Session 3: Fraud manage and content filtering</td>
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<td>Session Chair: Xiaodong Lin</td>
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</tbody>
</table>
## Conference Schedule

### Friday, 12 Nov.

**16:50-17:10**

**Development in data forensic laboratory**  
Xiamen Meiya Pico Information Co., Ltd.

**An Anonymity Scheme Based on Pseudonym in P2P Networks**  
Hao Peng, Songnian Lu, Jianhua Li, and Aixin Zhang

**18:00**

Conference dinner

### Invited Talk (II)  
Session Chair: Bo Jin

- **09:00-09:40**  
  Rongsheng Xu: Review on status of Digital Forensic in China

- **09:40-10:00**  
  Coffee Break

### Session 4: evidence  
Session Chair: Dawu Gu

- **10:00-10:20**  
  Investigating the Implications of Virtualization for Digital Forensics  
  Zheng Song, Bo Jin, Yinghong Zhu and Yongqing Sun

- **10:20-10:40**  
  A Fuzzy-Based Trust Model For P2P Systems -  
  Zhixin Sun, Yadang Chen, Yichen Jin

- **10:40-11:00**  
  Attacks on BitTorrent -- An Experimental Study  
  Marti Ksionsk, Ping Ji, and Weifeng Chen

- **11:00-11:20**  
  Data Recovery Based on Intelligent Pattern Matching  
  YI JunKai, Tang Shuo

- **11:20-11:40**  
  Digital Forensic Analysis on Runtime Instruction Flow  
  Juanru Li, Dawu Gu, Chaoguo Deng, and Yuhao Luo

- **11:40-13:10**  
  Lunch

### Invited Talk (III)  
Session Chair: Yongquan Wang

- **13:10-13:50**  
  Pauline C. Reich: Interdisciplinary Dialogues and the Evolution of Law to Address Cybercrime Issues in the Exciting Age of Information and Communication Technology

### Session 5: Record tracing  
Session Chair: Ning Ding

- **13:50-14:10**  
  Analysis of Telephone Call Detail Records Based on Fuzzy Decision Tree  
  Liping Ding, Yongji Wang and Jingzheng Wu

- **14:10-14:30**  
  Using Relationship-Building in Event Profiling for Digital Forensic Investigations  
  Lynn M Batten, Lei Pan

- **14:30-14:50**  
  A Modified Hausdorff Distance based Algorithm for 2-Dimensional Spatial
<table>
<thead>
<tr>
<th>Trajectory Matching, Fei Shao, Songmei Cai, and Junzhong GU</th>
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<tbody>
<tr>
<td>14:50-21:00       sightseeing</td>
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