Journal of Computers

Special Issue on Mobile computing in Digital Forensics, Security and Privacy

FOREWORD

Recent years the rapid growth of mobile computing environments. Not only security, but also digital forensics and privacy are major concerns in such environment. The objective of this special issue is to present research and developments in various aspects of digital forensics and privacy by bring together their research results concerning the relevant topics. We hope that this special issue would encourage the interested computer scientists in Taiwan to enter into this promising and active research area.

After a very careful reviewing process, the editorial committee accepts six outstanding papers, among many highly qualified submissions, to be included in this special issue. The first and the third papers are related to digital forensics issue, the fourth paper is related to privacy issue and the rest three papers are focus on applications of security issue. The first paper, a work by Prof. Hai-Cheng Chu, and his research team, from National Taichung University of Education and Jiangsu Normal University, pinpoints the consequences of the aforementioned status of IE in respect of collecting, analyzing, and preserving those negligible digital traces to be presented as probative evidences in a court of law. The second paper, a joint work by Prof. Zhi-Hui Wang and Prof. Chin-Chen Chang and their research group, from Dalian University of Technology and Feng Chia University, designs a vector quantization-based (VQ-based) watermark embedding method for binary calligraphy images to achieve copyright protection. The third paper, a work by Prof. Shiuh-Jeng Wang, from Central Police University, clarifies the controversy of whether the key-evidence on the iPhone after its Jailbroken will be varied or not, but also provides a summary report about iPhone evidence and digital forensics as a court reference. The fourth paper, a work by Prof. Da-Yu Kao, from Central Police University, explores privacy requirements and related online managements. The fifth paper, a join work by Prof. Timothy K. Shih and Prof. Yung-Chen Chou and their research teams from National Central University and Asia University, presents a high payload steganography scheme for color images based on block truncation coding technique and hybrid strategy. The final paper, by Dr. Ying-Hsuan Huang and his research partner from National Chung Hsing University and National Central University, proposes a secret sharing scheme for carrying large secret message by using two AMBTC shadows.

On behalf of the editorial committee, we would like to express my sincere thanks to all authors and anonymous reviewers for their great contribution to this special issue. We would also like to thank the editorial committee members for their excellent helps. Finally, we are grateful to Professor Jeng-Shyang Pan, the Editor-in-Chief, and the editorial staffs, for their kind helps. Without all of their great contribution and help, it is impossible to have this special issue.

Chia-Chen Lin   Guest Editor
Professor
Dept. of Computer Science and Information Management,
Providence University, TAIWAN
E-mail: ally.cclin@gmail.com

Shiuh-Jeng Wang   Guest Co-Editor
Professor
Dept. of Information Management,
Central Police University, TAIWAN
E-mail:sjwang@mail.cpu.edu.tw

Jonathan C.L. Liu   Guest Co-Editor
Professor
Dept. of Computer & Information & Engineering
University of Florida, USA
E-mail: jcliu@cise.ufl.edu

Chao-Liang Liu   Guest Co-Editor
Professor
Department of Applied Informatics and Multimedia,
Asia University, TAIWAN
E-mail: jliu@asia.edu.tw