

Accepted Manuscript

Title: Efficient dynamic malware analysis using virtual time control mechanics

Author: Chih-Hung Lin, Hsing-Kuo Pao, Jian-Wei Liao

PII: S0167-4048(17)30247-X

DOI: <https://doi.org/10.1016/j.cose.2017.11.010>

Reference: COSE 1237

To appear in: *Computers & Security*

Received date: 5-2-2017

Revised date: 25-8-2017

Accepted date: 13-11-2017



Please cite this article as: Chih-Hung Lin, Hsing-Kuo Pao, Jian-Wei Liao, Efficient dynamic malware analysis using virtual time control mechanics, *Computers & Security* (2017), <https://doi.org/10.1016/j.cose.2017.11.010>.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Efficient Dynamic Malware Analysis Using Virtual Time Control Mechanics[☆]

Chih-Hung Lin^{a,b,c,*}, Hsing-Kuo Pao^a, Jian-Wei Liao^b

^a*Dept. of Computer Science & Information Engineering, National Taiwan University of Science & Technology, Taipei 106, Taiwan*

^b*CyberSecurity Technology Institute, Institute for Information Industry, Taipei 106, Taiwan*

^c*National Center for Cyber Security Technology, Taipei 106, Taiwan*

Chih-Hung Lin

Chih-Hung Lin received his M.S. degree in Applied Physics from Chung Yuan Christian University, Taiwan in 1998. As a senior researcher at the Institute for Information Industry (III), Taiwan, Lin is also a Ph.D. candidate in the Department of Computer Science and Information Engineering at National Taiwan University of Science and Technology. He also leads the Research and Development Group at the National Center for Cyber Security Technology in Taipei, Taiwan. His research expertise includes cloud security, malware behavior analysis, and data protection.

Hsing-Kuo Pao (Kenneth)

Hsing-Kuo Pao (Kenneth) received a bachelors degree in mathematics from National Taiwan University, and M.S. and Ph.D. degrees in computer science from New York University. From 2001 to 2003, he was a post-doctoral research fellow at the University of Delaware. In 2003, he joined the Department of Computer Science and Information Engineering at National Taiwan University of Science and Technology and he is currently an associate professor. His current research interests include machine learning and information security.

Jian-Wei Liao

Jian-Wei Liao received a bachelors degree in computer science from Soochow University in 2010 and an M.S. degree in computer science from National Taiwan University of Science and

[☆]Research partially supported by Taiwan Ministry of Science and Technology.

*Corresponding author

Email addresses: chlin@iii.org.tw (Chih-Hung Lin), pao@mail.ntust.edu.tw (Hsing-Kuo Pao), jianweiliao@iii.org.tw (Jian-Wei Liao)

متن کامل مقاله

دریافت فوری ←

ISIArticles

مرجع مقالات تخصصی ایران

- ✓ امکان دانلود نسخه تمام متن مقالات انگلیسی
- ✓ امکان دانلود نسخه ترجمه شده مقالات
- ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
- ✓ امکان دانلود رایگان ۲ صفحه اول هر مقاله
- ✓ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
- ✓ دانلود فوری مقاله پس از پرداخت آنلاین
- ✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات