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CYBERSECURITY MALAYSIA CO-ORGANIZES THE 3RD INTERNATIONAL CONFERENCE ON CRYPTOLOGY AND COMPUTER SECURITY (CRYPTOLOGY 2012)

(**LANGKAWI**) - CyberSecurity Malaysia, an agency under the Ministry of Science, Technology and Innovation (MOSTI) co-organizes the 3rd International Conference on Cryptology and Computer Security (Cryptology 2012) together with the Universiti Sains Malaysia (USM), Malaysian Society of Cryptology Research (MSCR), Institute for Mathematical Research (INSPEM) and Universiti Putra Malaysia (UPM). It is held at Pulau Langkawi, Kedah from 4th to 6th June 2012.

The three day conference is organized to retain and expand the interest in cryptology research by bringing together the experts in the area of Cryptology and Computer Security. The conference provides excellent opportunity for the participants to exchange ideas and to explore possible avenues for collaboration among Cryptology and Computer Security researchers within the national and international community.

In his keynote address, Lt Col (R) Prof Dato' Husin Jazri, Chief Executive Officer of CyberSecurity Malaysia said, "Key management is the most important element in cryptography. Nowadays, trends of storing data are moving towards cloud computing making the management of cryptography key becomes even more challenging. However, it is important to ensure that the data which you have encrypted remain secured. Without a proper key management, your confidential information and secret data will be vulnerable and could be exposed to criminals."

With the current rapid advancement of ICT and the wide application of Internet, information could easily be retrieved by anyone at anytime. "Information is the most valuable asset to the organization. Thus, the leakage of information would not only affect the organization, but also the country as well as the public. With the application of cryptography, you will use the key to access your email account, social network's account, banking accounts, mobile communication and other internet applications." added Prof Dato' Husin.

Cryptology 2012 conference was officiated by Prof. Dr. Ahmad Izani Md. Ismail, Dean of School of Mathematics Sciences, Universiti Sains Malaysia. The conference brings together speakers and crypto experts from various organizations locally and globally such as MIMOS, MMU, Ibaraki University Japan, Chinese Academy of Sciences, China and also researchers from US, India and Uzbekistan.

Amongst the renowned speakers are Mr Kaoru Kurosawa, Professor in the Department of Computer and Information Sciences at Ibaraki University, Japan and Mr Yanbin Pan, Assistant Professor in the Key Laboratory of Mathematics Mechanization, Academy of Mathematics and Systems Science, Chinese Academy of Sciences, Beijing, China.

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Securing Our Cyberspace

The organizing committee has also lined up various exciting topics such as cryptanalysis, quantum cryptography and digital watermarking that will certainly benefit from the information shared by the various speakers throughout the seminar.

Prof Dato' Husin also makes an appeal to the Mathematicians, who he regarded as the best of the best and having the gifted brains to come up with a simpler key management model that is easier to use, yet secure to protect the internet users from cyber criminals. "The world needs it badly. We may need to think differently and be more innovative now than before, considering the rise of the cyber crimes nowadays." he added.

About Cryptology

Cryptology is the science of coding and decoding secret messages. It is divided into *Cryptography*, that is designing the cryptosystems for coding and decoding messages, and *Cryptanalysis*, which is the "breaking" of cryptosystems, or deciphering messages without prior detailed knowledge of the cryptosystem.

It applies in many areas to enhance the secrecy in different level of database system or in important communication messages. Nowadays, cryptography system is often embedded into computer application such as in digital cash, digital management for intellectual property protection and e-commerce. Cryptography is also used to protect e-mail messages, credit card information, user databases and corporate data.

Under Research Division of CyberSecurity Malaysia, we develop cryptographic algorithm, conduct analysis, research and development of applied cryptography services. For more information, visit www.cybersecurity.my

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CyberSecurity Malaysia is the national specialist centre for cyber security, under the purview of the Ministry of Science, Technology and Innovation (MOSTI). For additional information, please visit our website www.cybersecurity.my. For media inquiry, please email to: media@cybersecurity.my.

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