



PROGRAM

42nd Annual 2008

IEEE International Carnahan Conference on Security Technology

Diplomat Hotel Prague - Czech Republic

October 13 - 16, 2008

OCTOBER 13, 2008 – Monday

09:00 - 17:00	Annual Carnahan Cup Golf Tournament at the Konopiště Golf Resort	
15:00 - 20:00	Registration	by the Hotel Reception
15:45	Meeting Point is by the Registration Desk	
16:00 - 19:00	Guided Walking Tour of Prague	

OCTOBER 14, 2008 – Tuesday (Morning)

09:30 - 10:30	Registration	Hall A+B Foyer
10:30 - 11:30	Opening Session <i>Chairman: Miloš Klíma</i>	Hall A+B
10:30 - 10:50	Welcome <i>Miloš Klíma, Gordon Thomas, Boris Šimák</i>	
10:50 - 11:00	Security Aspects of Civil Air Transport <i>Jaromír Štolc, Ministry of Transport of the CR</i>	
11:00 - 11:10	Security of the Czech Airlines <i>Peter Jusko, Czech Airlines</i>	
11:10 - 11:20	IATCC Prague – Security and Systems for the Protection Centre <i>Jan Klas, Air Navigation Services of the Czech Republic</i>	
11:20 - 11:30	Certification Process <i>Josef Rada, Civil Aviation Authority</i>	
11:30 - 14:00	Lunch Break	


OCTOBER 14, 2008 – Tuesday (Afternoon)

14:00 - 15:40	Information Security I <i>Chairman: Gordon Thomas</i>	Hall A
14:00 - 14:20	Development Trends of Electronic Authentication <i>Vladimír Smejkal, Jindřich Kodl</i>	
14:20 - 14:40	Measures against Police Information Leakage Utilizing Automatic Encryption and Access Control Software <i>Tadaaki Yanagihara</i>	
14:40 - 15:00	New Trends in Security of Electronic Health Documentation <i>Dagmar Brechlerová, Marek Čandík</i>	
15:00 - 15:20	Based Security Model for Home System <i>Rudolf Volner, Petr Boreš</i>	
15:20 - 15:40	A Study of Global Numbering Plan with Active Anti-spit Biorhythm Signature Capability on VoIP <i>Chiang Hsia-Ling, Shu-Ming Yeh, Ming-Hong Hong, Lin John</i>	

14:00 - 15:20	Sensors and Detection <i>Chairman: Michael Jonckheere</i>	Hall B
14:00 - 14:20	Acoustic Tamper Detection Sensor with Very Low False Alarm Rate <i>Lawrence Muijlwijk, Jonathan Scott</i>	
14:20 - 14:40	Standardised Procedures for Evaluating PIDS <i>Simon Feraday, Stephen Tarr</i>	
14:40 - 15:00	Trial Results of a New Low-Cost And Covert Technology to Trace the Path of Maritime Containers Worldwide <i>René Schmidt, André Gagnon, Dave Allcock</i>	
15:00 - 15:20	Secure Communications Through Speech Dedicated Channels Using Digital Modulations <i>Toufic Chmayssani, Geneviève Baudoin, Gael Hendryckx</i>	
15:40 - 16:00	Coffee Break	

OCTOBER 14, 2008 – Tuesday (Late Afternoon)

16:00 - 18:00	Information Security II <i>Chairman: Clifton Smith</i>	Hall A
16:00 - 16:20	Secure Quantum Packet Transmission Mechanism for Wireless Networks <i>Tien-Sheng Lin, Sy-Yen Kuo</i>	
16:20 - 16:40	An Efficient Digital Image Watermarking Scheme <i>M. A. El-Iskandarani, Saad M. Saad, Ahmed. M. Abubahia</i>	
16:40 - 17:00	Digital Watermarking in Digital Images <i>Marek Čandík, Dagmar Brechlerová</i>	
17:00 - 17:20	Improving the Implementation of Access Control in EMR <i>Ana Ferreira, Ricardo Cruz-Correia, David Chadwick, Luis Antunes</i>	
17:20 - 17:40	A Robust and Secure Scheme for Image Transmission over Wireless Channels <i>M. A. El-Iskandarani, Saad Darwish, Saad M. Abuguba</i>	
17:40 - 18:00	Efficient Speaker Verification System using Speaker Model Clustering for T and Z Normalizations <i>Kiran Ravulakollu, Vijendra Raj Apsingekar, Phillip L. De Leon</i>	
16:00 – 17:40	User Experience of Security Systems <i>Chairman: Hsia-Ling Chiang</i>	Hall B
16:00 - 16:20	Millimeterwave Doppler Surveillance Radar adds Biorhythm Signature to Reduce False Alarm Rate <i>André Gagnon</i>	
16:20 - 16:40	Aspects of Image Quality Enhancement in Security Technology <i>Miloš Klíma, Daniel Kekrt, Radek Podgorný</i>	
16:40 - 17:00	User Experiences with an Unobtrusive Decision aid for Deception Detection <i>Matthew L. Jensen, Judee K. Burgoon, Jay F. Nunamaker, Jr.</i>	
17:00 - 17:20	Securing a Health Information System with a Government Issued Digital Identification Card <i>Ricardo Santos, Manuel E. Correia, Luís Antunes</i>	

17:20 - 17:40	Potential Noncontact Tools for Rapid Credibility Assessment from Physiological and Behavioral Cues <i>Judee K. Burgoon, Douglas C. Derrick, Aaron C. Elkins, Sean LaMarc Humphreys, Matthew L. Jensen, Christopher BR Diller, Jay F. Nunamaker, Jr.</i>	
19:00	Meeting Point: by the Hotel Reception	
19:30	Welcome Reception at the Residence of the Mayor of the City of Prague <i>(Mariánské náměstí, Prague 1, Old Town)</i>	

OCTOBER 15, 2008 – Wednesday (Morning)

09:00 - 10:40	Biometric Identification Systems I <i>Chairman: Carlos M. Travieso</i>	Hall A
09:00 - 09:20	Investigating the Relationship Between Fingerprint Image Quality and Skin Characteristics <i>Christine R. Blomeke, Shimon K. Modi, Stephen J. Elliott</i>	
09:20 - 09:40	'Hidden Signature' – A New Solution for On-line Verification Using DTW <i>Joanna Putz-Leszczynska, Andrzej Pacut</i>	
09:40 - 10:00	Writer Identification based on Graphology Techniques <i>Omar Santana, Carlos M. Travieso, Jesús B. Alonso, Miguel A. Ferrer</i>	
10:00 - 10:20	Characterizing Biometric Behavior Through Haptics and Virtual Reality <i>Rosa Iglesias, Mauricio Orozco, Fawaz A. Alsulaiman, Julio J. Valdes, Addulmotaleb El Saddik</i>	
10:20 - 10:40	Biometric Systems Simulations Performing Close to Real World Conditions <i>Joan Fàbregas, Marcos Faundez-Zanuy</i>	
09:00 - 10:40	Counter-terrorism; Police and Forensics <i>Chairman: Michael Hsu</i>	Hall B
09:00 - 09:20	Skills in Detecting Gun Carrying from CCTV <i>Anastassia Blechko, Iain Darker, Alastair Gale</i>	
09:20 - 09:40	Embedded Traffic Analysis System based on Fourier Descriptor and Motion Homogeneity Measurement <i>Chang-Lung Tsai, Wie-Lieh Hsu, Chin-Chuan Han</i>	
09:40 - 10:00	Evaluating Multiple Camera Tracking System – The i-LIDS 5th Scenario <i>Adam Nilski</i>	
10:00 - 10:20	Blind Methods for Detecting Image Fakery <i>Babak Mahdian, Stanislav Saic</i>	
10:20 - 10:40	High Threat Entry Control Points Design: A Holistic Approach <i>Douglas Cavileer</i>	
10:40 - 11:00	Coffee Break	


11:00 - 12:00	Biometric Identification Systems II <i>Chairman: So-Lin Yen</i>	Hall A
11:00 - 11:20	Face Recognition Approach Based on Wavelet Transform <i>Virginia Espinosa-Duró, Enric Monte-Moreno</i>	
11:20 - 11:40	Comparing Infrared and Visible Illumination for Contact-Less Hand Based Biometric Scheme <i>Aythami Morales, Miguel A. Ferrer, Jesús B. Alonso, Carlos M. Travieso</i>	
11:40 - 12:00	Image Compact Formats of Iris Samples for Interoperability in Biometric Systems <i>Raul Sanchez-Reillo, Judith Liu-Jimenez, Michael G. Lorenz, Luis Mengibar-Pozo</i>	
11:00 - 12:00	Port, Perimeter and Airport Security <i>Chairman: Nigel Grist</i>	Hall B
11:00 - 11:20	Relationship Between Level Of Detection Performance and Amount of Recurrent Computer-Based Training <i>Stefan Michel, Saskia M. Koller, Adrian Schwaninger</i>	
11:20 - 11:40	Opportunities for Increased Use of Standards in the Integration of Perimeter Intrusion Detection Systems <i>Stewart Dewar</i>	
11:40 - 12:00	Security and Crisis Management for Air Transport <i>Rudolf Volner, Vladimír Smrž</i>	
12:00 - 14:00	Lunch Break	

OCTOBER 15, 2008 – Wednesday (Afternoon)

14:00 - 15:40	Biometric Identification Systems III <i>Chairman: Alfonso Bilbao</i>	Hall A + B
14:00 - 14:20	A New Algorithm for Signature Verification System based on DTW and GMM <i>Oscar Miguel-Hurtado, Luis Mengibar-Pozo, Andrzej Pacut</i>	
14:20 - 14:40	Particle filtering in Multilevel Color Context for Face Detection and Tracking in Real-time Video Sequences <i>Łukasz Stasiak, Andrzej Pacut</i>	
14:40 - 15:00	Influence of the Pegs Number and Distribution on a Biometric Device based on Hand Geometry <i>Miguel A. Ferrer, Aythami Morales, Carlos M. Travieso, Jesús B. Alonso</i>	
15:00 - 15:20	A fuzzy DNA-based Algorithm for Identification and Authentication in an Iris Detection System <i>Alberto de Santos Sierra, Carmen Sánchez Ávila, Vicente Jara Vera</i>	
15:20 - 15:40	Evaluation Methodology for Fake Samples Detection in Biometrics <i>Belen Fernandez-Saavedra, Raul Sanchez-Reillo, Raul Alonso-Moreno, Carmen Sanchez-Avila</i>	
15:40 - 16:00	Coffee Break	

OCTOBER 15, 2008 – Wednesday (Late Afternoon)

16:00 - 17:30	Poster Session	Hall A+B Foyer
	User-friendly Biometric Camera for Speeding Iris Recognition Systems <i>Michael G. Lorenz, Luis Mengibar-Pozo, Judith Liu-Jimenez, Belen Fernandez-Saavedra</i>	
	Replay Attack Prevention for Iris Biometrics <i>Adam Czajka, Andrzej Pacut</i>	
	On the Enhancement of Speaker Identification Accuracy Using Weighted Bilateral Scoring <i>A. Malegaonkar, A. Ariyaeenia, P. Sivakumaran, J. Fortuna</i>	
	A Novel Scheme for Face Recognition and Authentication with Illumination and Expression Changes <i>Ying-Nong Chen, Chin-Chuan Han, Cheng-Tzu Wang, Kuo-Chin Fan</i>	
	Eyetracking Based Approach to Objective Image Quality Assessment <i>Karel Fliegel</i>	
	Dark Current Elimination in Security Imaging Systems <i>Jan Švihlík</i>	
	Physiological Data Transmission Network Using ZigBee <i>Tomáš Vitek, Ondřej Hnyk</i>	
	Scanning of Electromagnetic Radiation for EMC and Data Security Purposes <i>Vojtěch Křesálek, Michal Smola, Tomáš Kosina</i>	
	Improvement of Pattern Hiding Method of Data Application in JPEG-files <i>Vitaliy Lukichov, Anatoliy Vasyura, Yevhen Zolotavkin</i>	
	A Novel Approach to the Security of Data Hidden in Multimedia Objects <i>Yevhen Zolotavkin, Vitaliy Lukichov, Anatoliy Vasyura</i>	
	Modeling of the Widefield Space Variant Security Systems <i>Martin Řeřábek, Petr Páta</i>	
	Autonomous Access Control System <i>Tomáš Teplý, Julius Foit</i>	
	KLT Coder for Compression of Security Images <i>Petr Páta</i>	
	The Advanced Noise Model for an IDN based Restoration of Black and White Pictures Captured by a Camera with CCD/CMOS Sensor <i>Daniel Kekrt, Miloš Klíma</i>	
	Security and Reliability Considerations for Distributed Healthcare Systems <i>Kamil Matoušek</i>	
	Security Recommendations for Implementation in Distributed Healthcare Systems <i>Lenka Lhotská, Petr Aubrecht, Aida Valls, Karina Gibert</i>	
	Detection, Tracking and Classification of Moving Objects for Unstable Video Surveillance Applications <i>Michael Kutzer, Bogdan Viǵaru</i>	
	Information Protection from Network Sniffing of Bandwidths Sharing <i>Chang-Lung Tsai, Tsung-Hsian Wu</i>	

19:00	Meeting Point: by the Hotel Reception	
19:30	ICCST 2008 Dinner at Municipal House (Obecní dům) (náměstí Republiky 5, Prague 1)	

OCTOBER 16, 2008 – Thursday (Morning)

09:00 - 10:20	Computer Systems Security <i>Chairman: Brian G. Rich</i>	Hall A+B
09:00 - 09:20	FARM: An Automated Malware Analysis Environment <i>Jamie Van Randwyk, Ken Chiang, Levi Lloyd, Keith Vanderveen</i>	
09:20 - 09:40	E-Banking Security – Comparative Study <i>Petr Hanáček, Kamil Malinka, Jiří Schäfer</i>	
09:40 - 10:00	A Practical Approach for Building a Parallel Firewall for Ten Gigabit Ethernet Backbone <i>Kasom Koht-arsa, Surasak Sanguanpong</i>	
10:00 - 10:20	Malware Spreading Models in Peer-to-peer Networks <i>Jiří Schäfer, Kamil Malinka, Petr Hanáček</i>	
10:20 - 10:40	Coffee Break	
10:40 - 11:40	Monitoring, Command, Control and Network Systems <i>Chairman: Daniel A. Pritchard</i>	Hall A+B
10:40 - 11:00	TacNet Tracker®: Built-In Capabilities for Situational Awareness <i>Loren E. Riblett, James M. Wiseman</i>	
11:00 - 11:20	Covert Testing at Airports: Exploring Methodology and Results <i>Olive Emil Wetter, Diana Hardmeier, Franziska Hofer</i>	
11:20 - 11:40	Real-Time Video Surveillance for First Responders in an Emergency Situation <i>Mary W. Green, Richard Sparks, Daniel A. Pritchard</i>	
11:40 - 12:00	Closing <i>Conference Chairman: Miloš Klíma</i>	Hall A+B
12:00 - 14:00	Lunch Break	
14:30 - 18:00	EXCURSIONS – A & C, B	
	A - Czech Airlines Training Centre C - Air Navigation Services of the CR at Prague Airport	
	B - National Integrated Air Traffic Control Centre - IATCC Prague	

OCTOBER 17, 2008 – Friday

08:30 - 10:30	ICCST Executive Committee Meeting	Library
11:00 - 16:00	Optional Excursion to F AIR Aircraft Company & Photo-Flight from Benešov Airport (<i>Light Refreshment Included</i>)	