

IEEE INTERNATIONAL CARNAHAN CONFERENCE ON SECURITY TECHNOLOGY

★ ★ ★ ★ ★ 50th ANNIVERSARY ★ ★ ★ ★ ★

24-27 OCTOBER 2016, ORLANDO, FLORIDA, USA

Monday, 24 October			
	09:00 - 14:00	Carnahan Cup Golf Tournament	Orange County National Golf Center
	18:00 - 20:00	50th Anniversary ICCST Registration Reception	Rosen Plaza Hotel Mezzanine Foyer / Balcony
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Tuesday, 25 October			
	Ballroom C	Authors	Topic / Title
Session 1	08:00 - 10:00	Plenary Session - Welcome and Keynote Addresses	
	08:00 - 08:10	Assembly in Ballroom C	
	08:10 - 08:20	Conference Opening - Mr. Rick Lazarick, 2016 General Chairman, and Dr. Gordon Thomas, ICCST Executive Committee Chairman	
	08:20 - 08:45	Keynote Address - Mr. Rich Habgood, IT Security Manager, Orange County Sheriff's Office	The Pieces Protecting Orange County – Local Law Enforcement Security Technologies
	08:45 - 09:10	Keynote Address - Dr. Gordon Thomas, ICCST Executive Committee Chairman	Security Technology: 50 Years On
	09:10 - 10:00	Keynote Address - Dr. Keith Harman, Chief Scientist, 3D Sentry Corporation	Outdoor Perimeter Security Sensor Innovation
Break	10:00 - 10:30		
Session 2	Ballroom C	Selected Papers. Moderator: Dr. Gordon Thomas	
	10:30 - 11:00	William Stout and Vincent Urias	CHALLENGES TO SECURING THE INTERNET OF THINGS
	11:00 - 11:30	Stephen Stubberud and Kathleen Kramer	EVIDENCE ACCRUAL TECHNIQUE FOR INFORMATION ASSURANCE
	11:30 - 12:00	Ines Goicoechea-Telleria, Judith Liu-Jimenez, Raul Sanchez-Reillo and Wendy Ponce-Hernandez	VULNERABILITIES OF BIOMETRIC SYSTEMS INTEGRATED IN MOBILE DEVICES: AN EVALUATION
Lunch	12:00 - 13:00		
Session 3A	Ballroom C	Biometrics 1. Moderator: Dr. Soodamani Ramalingam	
	13:00 - 13:20	Richard Guest, Oscar Miguel-Hurtado and Thomas Chatzisterkotis	A NEW APPROACH TO AUTOMATIC SIGNATURE COMPLEXITY ASSESSMENT
	13:20 - 13:40	Rodrigo Ros-Gomez, Helga C. Quiros-Sandoval, Ramon Blanco-Gonzalo and Raul Sanchez-Reillo	A COMPARATIVE ANALYSIS ON THE PERFORMANCE OF STATIC HANDWRITTEN VERIFICATION SYSTEMS ON REALISTIC SCENARIOS
	13:40 - 14:00	Vladimir Smejkal, Jindrich Kodl and Ladislav Sieger	THE INFLUENCE OF STRESS ON BIOMETRIC SIGNATURE STABILITY
	14:00 - 14:20	Derlin Morocho, Aythami Morales, Julian Fierrez and Ruben Tolosana	ON THE EVALUATION OF HUMAN RATINGS FOR SIGNATURE RECOGNITION
	14:20 - 14:40	Andre Gagnon	FIELD TRIAL RESULTS USING A NOVEL INTEGRATION OF UNIQUE MILLIMETERWAVE DOPPLER RADAR FOR HIGH PERFORMANCE NON-OBTUSIVE LIFE SIGN (BREATHING AND HEART BEATING) MONITORING OF HIGH SUICIDE RISK PRISONNER IN OBSERVATION CELL
Session 3B	Salon 5/6	Internet of Things. Moderator: Dr. Bill Claycomb	
	13:00 - 13:20	Fabio Garzia and Luigivalerio Sant'Andrea	THE INTERNET OF EVERYTHING BASED INTEGRATED SECURITY SYSTEM OF THE WORLD WAR I COMMEMORATIVE MUSEUM OF FOGLIANO REDIPUGLIA IN ITALY
	13:20 - 13:40	Fabio Garzia, Luca Papi and Mara Lombardi	AN INTERNET OF EVERYTHING BASED INTEGRATED SECURITY SYSTEM FOR SMART ARCHAEOLOGICAL AREAS
	13:40 - 14:00	Jimmy Anderson Florez Zuluaga, Camilo Logreira Renteria, Mario Alonso Muñoz, and Jesús Francisco Vargas	ARCHITECTURE OF INSTANT MESSAGING SYSTEMS FOR SECURE DATA TRANSMISSION
	14:00 - 14:20	Miguel Maldonado, Darwin Alulema, Derlin Morocho and Mariela Proaño	SYSTEM FOR MONITORING NATURAL DISASTERS USING NATURAL LANGUAGE PROCESSING IN THE SOCIAL NETWORK TWITTER
	14:20 - 14:40		
Break	14:40 - 15:00		
Session 4A	Ballroom C	Systems Engineering. Moderator: Mr. Alfonso Bilbao	
	15:00 - 15:20	Marius Vassiliou	MISSION SUCCESS: ASSURED COMMUNICATIONS AND AGILE ORGANIZATIONS
	15:20 - 15:40	Patrick Kuiper, Stephan Koltitz and Vahid Tarokh	BASE CAMP QUALITY OF LIFE STANDARDIZATION AND IMPROVEMENT
	15:40 - 16:00	Michael Staley	LIMIT STATE EARNED VALUE ANALYSIS IMPACT ON NETWORK SECURITY PROJECT MANAGEMENT DECISIONS
	16:00 - 16:20	Fabio Garzia	AN INTEGRATED MULTIDISCIPLINARY MODEL FOR SECURITY MANAGEMENT AND RELATED SUPPORTING INTEGRATED TECHNOLOGICAL SYSTEM
Session 4B	Salon 5/6	Video/Surveillance. Moderator: Dr. Francisco Vargas	
	15:00 - 15:20	Dwight Horne and Suku Nair	THE PROM PROBLEM: FAIR, PRIVACY-ENHANCED MATCHMAKING WITH IDENTITY LINKED WISHES
	15:20 - 15:40	Shanta Rangaswamy and Soodamani Ramalingum	METADATA EXTRACTION AND CLASSIFICATION OF YOUTUBE VIDEOS USING SENTIMENT ANALYSIS
	15:40 - 16:00	Soodamani Ramalingam, Vimal Varsani, Arsalan Rahi and Talib Alukaidey	VEHICLE DETECTION FOR TRAFFIC FLOW ANALYSIS
	16:00 - 16:20	Mala John and Santhosh Kumar Sukumar	HUMAN ACTIVITY RECOGNITION USING OPTICAL FLOW BASED FEATURE SET
	16:20 - 16:40	S Jeba Berlin and Mala John	HUMAN INTERACTION RECOGNITION THROUGH DEEP LEARNING NETWORK

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Wednesday, 26 October		Authors	Topic / Title
Session 5 Ballroom C	08:30 - 10:30	Panel Discussion. Moderator: Dr. JR Russell, Sandia National Laboratories	Views of the Future: The Next 25 Years in Security Technology
Break	10:30 - 10:50		
Session 6 Ballroom C	10:50 - 12:00	Keynote Address: Dr. Arun Ross, Michigan State University	Human Recognition Using Biometrics: Past, Present, Future
Lunch	12:00 - 13:00		
Session 7A	Ballroom C	Biometrics 2. Moderator: Dr. Yen-Hsyang Chu	
	13:00 - 13:20	Michael Brockly, Stephen Elliott, Richard Guest and Robert Proctor	THE DEVELOPMENT OF A TEST HARNESS FOR BIOMETRIC DATA COLLECTION AND VALIDATION
	13:20 - 13:40	Oscar Miguel-Hurtado, Richard Guest, Ramon Blanco-Gonzalo and Chiara Lunerti	INTERACTION EVALUATION OF A MOBILE VOICE AUTHENTICATION SYSTEM
	13:40 - 14:00	Pablo Fernandez-Lopez, Carlos Sanchez-Redondo, Judith Liu-Jimenez and Raul Sanchez-Reillo	GAIT RECOGNITION USING SMARTPHONES
	14:00 - 14:20	Michael Bourg, Ranjith Jayapal and Pramod Govindan	RSA BASED BIOMETRIC ENCRYPTION SYSTEM USING FPGA FOR INCREASED SECURITY
	14:20 - 14:40	Ranjith Jayapal, Michael Bourg and Pramod Govindan	BIOMETRIC ENCRYPTION SYSTEM FOR INCREASED SECURITY
Session 7B	Salon 5/6	Information Security 1. Moderator: Dr. Soodamani Ramalingam	
	13:00 - 13:20	Razieh Nokhbeh Zaeem and K Suzanne Barber	PREDICTING AND EXPLAINING IDENTITY RISK, EXPOSURE AND COST USING ECOSYSTEM OF IDENTITY ATTRIBUTES
	13:20 - 13:40	Maurizio Talamo, Andrea Callia d'Iddio, Franco Arcieri and Christian H. Schunck	ONLINE AND OFFLINE CONFORMANCE CHECKING OF INTER-ORGANIZATIONAL BUSINESS PROCESSES WITH INCOMPLETE PROCESS LOGS
	13:40 - 14:00	Maurizio Talamo, Andrea Callia d'Iddio, Franco Arcieri and Christian H. Schunck	EXTENDING ABSTRACTION-REFINEMENT METHODS FOR COMPLIANCE CHECKING OF INTER-ORGANIZATIONAL BUSINESS PROCESSES WITH INCOMPLETE INFORMATION
	14:00 - 14:20	Camilo Logreira, Mario Munoz and Jimmy Florez	CRYPTOGRAPHIC LIBRARY PERFORMANCE COMPARISON FOR INSTANT MESSAGING SYSTEM CENTRALIZED DATA
	14:20 - 14:40	Ronald Loui and Lucinda Caughey	DIGITAL FLIGHT PLANS FOR SERVER ACCESS CONTROL: RESTRICTING ANOMALOUS ACTIVITY WITH PATH-BASED DECLARATIONS OF INTENTIONS
Break	14:40 - 15:00		
Session 8A	Ballroom C	Biometrics 3. Moderator: Mr. Daniel Pritchard	
	15:00 - 15:20	Nazariy Shaydyuk and Tim Cleland	BIOMETRIC IDENTIFICATION VIA RETINA SCANNING WITH LIVENESS DETECTION USING SPECKLE CONTRAST IMAGING
	15:20 - 15:40	Ester Gonzalez-Sosa, Ruben Vera-Rodriguez, Julian Fierrez and Javier Ortega-Garcia	DEALING WITH OCCLUSIONS IN FACE RECOGNITION BY REGION-BASED FUSION
	15:40 - 16:00	Ryan Hancock and Stephen Elliott	EVIDENCE OF CORRELATION BETWEEN FINGERPRINT QUALITY AND SKIN ATTRIBUTES
	16:00 - 16:20	Soodamani Ramalingam and Uma Maheswari Mariappan	A FUZZY INTERVAL VALUED FUSION TECHNIQUE FOR MULTI-MODAL 3D FACE RECOGNITION
Session 8B	Salon 5/6	Information Security 2. Moderator: Dr. Fabio Garzia	
	15:00 - 15:20	Edward Witzke	COMPUTER NETWORK SECURITY: THEN AND NOW
	15:20 - 15:40	Sam Abbott-Mccune, Lisa Shay and Al Wicks	INTRUSION PREVENTION SYSTEM OF AUTOMOTIVE NETWORK CAN BUS
	15:40 - 16:00	Sam Abbott-Mccune and Lisa Shay	TECHNIQUES IN HACKING AND SIMULATING A MODERN AUTOMOTIVE CONTROLLER AREA NETWORK
	16:00 - 16:20	Jason McNeely, Md Abir Hasan and Michael Hatfield	DETECTION OF UAV HIJACKING AND MALFUNCTIONS VIA VARIATIONS IN FLIGHT DATA STATISTICS
Banquet Celebration	18:00 - 21:30	Rosen Plaza Ballroom C	

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Thursday, 27 October	Authors		Topic / Title
Session 9A	Ballroom C	Aviation/Cargo Security. Moderator: Dr. Adrian Schwaninger	
	08:30 - 08:50	Wicher Visser, Adrian Schwaninger, Diana Hardmeier, Alexander Flisch, Marius Costin, Frank Sukowski, Ulf Hassler, Irène Dorion, Ger Koomen, Micha Slegt and Andrea Camonica	AUTOMATED COMPARISON OF X-RAY IMAGES FOR CARGO SCANNING
	08:50 - 09:10	Ed Rao and Jim Remer	TAMPER EVIDENT TAPE INTEGRITY ANALYZER
	09:10 - 09:30	<i>Christer Wilkinson and Art Kosatka</i>	<i>AIRPORT SECURITY SYSTEM STANDARDS DEVELOPMENT: CHALLENGES AND OUTCOMES</i>
	09:30 - 09:50	Thomas Rogers, Nicolas Jaccard, Emmanouil Protonotarios, James Ollier, Edward Morton and Lewis Griffin	THREAT IMAGE PROJECTION (TIP) INTO X-RAY IMAGES OF CARGO CONTAINERS FOR TRAINING HUMANS AND MACHINES
Session 9B	Salon 5/6	Information Security 3. Moderator: Dr. Fabio Garzia	
	08:30 - 08:50	David Last	CONSENSUS FORECASTING OF ZERO-DAY VULNERABILITIES FOR NETWORK SECURITY
	08:50 - 09:10	Somayeh Sobati	A SECURE ORDER-PRESERVING INDEXING SCHEME FOR OUTSOURCED DATA
	09:10 - 09:30	Tomas Smetka, Ivan Homoliak and Petr Hanacek	ON THE APPLICATION OF SYMBOLIC REGRESSION AND GENETIC PROGRAMMING FOR CRYPTANALYSIS OF SYMMETRIC ENCRYPTION ALGORITHM
	09:30 - 09:50	Ryan Kulchyski	TRANSITIONING SECURITY SOFTWARE AND HARDWARE SYSTEMS FOR USE ON UNSECURED OR EXTERNALLY CONNECTED NETWORKS
	9:50 - 10:10	Brian Van Leeuwen, William Stout and Vincent Urias	MTD ASSESSMENT FRAMEWORK WITH CYBER ATTACK MODELING
Break	10:10 - 10:30		
Session 10	Ballroom C	Sensing Technologies. Moderator: Mr. Brian Rich	
	10:30 - 10:50	Timothy Acker, Andy Meecham and Jim Pollock	UNDERWATER THREAT DETECTION AND TRACKING USING MULTIPLE SENSORS AND ADVANCED PROCESSING
	10:50 - 11:10	Shailesh Singh, Chaofan Wang and Michael Olson	A NOVEL DDTs TECHNOLOGY BASED ON FIBER OPTICS FOR EARLY LEAK DETECTION IN PIPELINES
	11:10 - 11:30	Dr. Keith Harman and Shailesh Singh	A NOVEL LONG-RANGE PERIMETER SECURITY SENSOR BASED ON HYBRID MICHELSON AND MACH-ZEHNDER INTERFEROMETERS
	11:30 - 11:50	Jefferson Odhner	COVERT GROUND AND PORT SURVEILLANCE USING HYPERBOX: RAYLEIGH BACKSCATTERING FROM FIBER OPTICS
	11:50 - 12:00	Close of Conference - Mr. Rick Lazarick	
Special Events	13:00 - 17:00	Distributed Acoustic Sensor Installation Tour, Webster, FL (transportation not provided)	Sponsored by Odhner Holographics. See information sheet for details.
	14:00 - 16:00	Advanced Simulation Laboratory, Adacel, Inc., Orlando FL (transportation not provided)	Sponsored by Adacel, Inc. See information sheet for details.