

Institute for Development and Research in Banking Technology
(Established by Reserve bank of India)

Fifth IEEE International Conference on Identity, Security and Behavior Analysis
January 22 – 24, 2019

ISBA 2019 - Program Schedule

Day 1: Tuesday, 22 Jan 2019

09.00 AM onwards		: REGISTRATION
Session:1		
		<u>Inaugural Function</u>
		<u>Venue: Auditorium</u>
10.00 – 10.10 AM	:	Welcome address Dr. A. S. Ramasastry , Director, IDRBT
10.10 – 10.15 AM	:	Launch of Journal, Release of Block Chain Blueprint
10.15 – 10.25 AM	:	ISBA 2019 Conf Brief Prof. Venu Govindaraju , General Chair, ISBA 2019
10.25 – 10.55 AM	:	Inaugural Address Shri R. Gandhi , Ex-Deputy Governor, Reserve Bank of India
10.55 – 11.00 AM	:	Vote of Thanks Dr. B. M. Mehtre , General Chair, ISBA 2019
11.00 – 11.30 AM	:	Tea Break
Session – 2		
		<u>Keynote Talk - 1</u>
		<u>Venue: Conference Room - 205</u>
11.30 AM – 12.30 PM	:	Session Chair: Prof. Venu Govindaraju, University at Buffalo, NY, USA Session Coordinators: ND Patel & Shadab Topic: Approximating Human Perception via Multimodal Data Streams Speaker: Dr. Winston Hsu , Professor, National Taiwan University & Director, NVIDIA AI Lab (NTU)
Session – 3		
		<u>Iris Recognition I</u>
		<u>Venue: Conference Room - 205</u>
12:30 PM – 1:30 PM	:	Session Chair: Anoop Namboodiri, IIITH Session Coordinators: ND Patel & Charles

12:30 PM – 12:50 PM		Super-Resolution and Image Re-projection for Iris Recognition Eduardo F Ribeiro (Salzburg University)* Andreas Uhl (University of Salzburg) Fernando Alonso-Fernandez (Halmstad University)
12:50 PM – 01:10 PM		Spoofing PRNU Patterns of Iris Sensors while Preserving Iris Recognition Sudipta Banerjee (Michigan State University)* Vahid Mirjalili (Michigan State University) Arun Ross (Michigan State University, USA)
01:10 PM – 01:30 PM		Towards Reducing the Error Rates in Template Protection for Iris Recognition Using Custom Cuckoo Filters Kiran Raja (USN)* Raghavendra Ramachandra (NTNU, Norway) Christoph Busch (Norwegian University of Science and Technology)
1:30 – 2:30 PM	:	Lunch
Session – 4		Tutorial - 1
Venue: Conference Room - 205		
2:30 – 4:30 PM	:	Session Chair: <u>Dr NP Dhavale, IDRBT</u> Session Coordinators: <u>Malvika Singh & Bhargavi</u> Topic: <u>Adversarial Perturbations in Deep Learning</u> Speaker: <u>Dr Mayank Vatsa and Dr Richa Singh, IIIT Delhi</u>
4:30 – 5:00 PM	:	Tea Break
Session – 5		Biometrics and Security - I
Venue: Conference Room - 205		
5.00PM- 6:00 PM	:	Session Chair: <u>Prof. Ravi Vadlamani, IDRBT</u> Session Coordinators: <u>Malvika Singh & Sai Ram</u>
5:00 PM – 5:20 PM	:	FDNet : A Secure Cancelable Deep Finger Dorsal Template Generation Network Secured via. Bio-Hashing Avantika Singh (IIT Mandi)* Ashish Arora (Indian Institute of Technology Dharwad) Shreya Hasmukh Patel (IIT Jodhpur) Gaurav Jaswal (IIT Mandi) Aditya Nigam (IIT mandi)
5:20 PM – 5:40 PM		Subband Analysis for Performance Improvement of Replay Attack Detection in Speaker Verification Systems Shruti Bhilare (IIT Indore)* Sachin Garg (IIT Indore) Vivek Kanhangad (IIT Indore)

5:40 PM – 6:00 PM	<p>Towards making morphing attack detection robust using hybrid scale-space colour texture features</p> <p>Raghavendra Ramachandra (NTNU, Norway)* Sushma Venkatesh (NTNU) Kiran Raja (NTNU) Christoph Busch (Norwegian University of Science and Technology)</p>
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Day 2: Wednesday, 23 Jan 2019

<u>Sessions – 6</u>		<u>Keynote Talk – 2</u>	<u>Venue: Conference Room - 205</u>
09.30 – 10:30 AM	:	<p>Session Chair: <u>Dr. B. M. Mehtre, IDRBT</u></p> <p>Session Coordinators: <u>ND Patel & Devendra</u></p> <p>Topic: Privacy-aware Computing for Smart Cities</p> <p>Speaker: Prof Mohan Kankanhalli, National University of Singapore</p>	
10.30 – 11.00 AM	:	Tea Break	
<u>Session – 7</u>		<u>Tutorial - 2</u>	<u>Venue: Conference Room - 205</u>
11.00 AM – 1.00 PM	:	<p>Session Chair: <u>Srirangaraj (Ranga) Setlur, University at Buffalo, NY</u></p> <p>Session Coordinators: <u>Shadab & Charles</u></p> <p>Topic: Understanding and Recognizing Face in the Era of Deep Learning</p> <p>Speaker: Prof. C. V. Jawahar, IIIT Hyderabad</p>	
1:00 – 2:00 PM	:	Lunch	
<u>Session – 8</u>		<u>Keynote Talk - 3</u>	<u>Venue: Conference Room - 205</u>
2:00 – 3:00 PM	:	<p>Session Chair: <u>Srirangaraj (Ranga) Setlur, University at Buffalo, NY</u></p> <p>Session Coordinators: <u>Suresh & Sudha</u></p> <p>Topic: Dense Maps of Local Fourier Features Applied to Biometrics</p> <p>Speaker: Prof Josef Bigun, Halmstad University, Sweden</p>	
3:00 – 3:30 PM	:	Tea Break	
<u>Session – 9</u>		<u>Hand-based Biometrics</u>	<u>Venue: Conference Room – 205</u>
3:30 PM - 4:50 PM	:	<p>Session Chair: <u>Prof VN Sastry, IDRBT</u></p> <p>Session Coordinators: <u>Ravi & Ramya</u></p>	
3:30 PM – 3:50 PM	:	<p>Enhanced Segmentation-CNN based Finger-Vein Recognition by Joint Training with Automatically Generated and Manual Labels</p> <p>Ehsaneddin Jalilian (University of Salzburg)* Andreas Uhl (University of Salzburg)</p>	

3:50 PM – 4:10 PM	:	PVSNet: Palm Vein Authentication Siamese Network Trained using Triplet Loss and Adaptive Hard Mining by Learning Enforced Domain Specific Features Gaurav Jaswal (IIT Mandi)* Daksh Thapar (IIT Mandi) Aditya Nigam (IIT Mandi) Vivek Kanhangad (IIT Indore)
4:10 PM – 4:30 PM	:	Deep Convolutional Neural Network for Dot and Incipient Ridge Detection in High-resolution fingerprints Vijay Anand (IIT Indore)* Vivek Kanhangad (IIT Indore)
4:30 PM – 4:50 PM	:	FDSNet: Finger dorsal image spoof detection network using light field camera Avantika Singh (IIT Mandi) Gaurav Jaswal (IIT Mandi)* Aditya Nigam (IIT Mandi)
Session – 10		Face Recognition
		Venue: Conference Room - 205
4:50 PM - 5:30 PM	:	Session Chair: <u>Dr Mridula Verma, IDRBT</u> Session Coordinators: <u>Malvika Singh & Ashwini</u>
4:50 PM – 5:10 PM	:	Thermal to Visual Face Recognition using Transfer Learning Yaswanth Gavini (University of Hyderabad)* Babu Mehtre (IDRBT Hyderabad) Arun Agarwal (University of Hyderabad)
5:10 PM – 5:30 PM	:	Utilizing Template Diversity for Fusion Of Face Recognizers Sergey Tulyakov (University at Buffalo)* Nishant Sankaran (University at Buffalo) Srirangaraj Setlur (University at Buffalo, SUNY) Venu Govindaraju (University at Buffalo, SUNY)
6:00 PM	:	<u>Cultural Programme</u>
		Venue: Auditorium
7:00 PM onwards	:	<u>Conference Dinner</u>
		Venue: IDRBT lawn

Day 3: Thursday, 24 Jan 2019

Sessions – 11		Keynote Talk - 4
		Venue: Conference Room - 212
09.30 – 10:30 AM	:	Session Chair: <u>Prof. Mohan Kankanhalli, NUS</u> Session Coordinators: <u>Sabhpathy & Moulika</u>

		<p>Topic: <u>Securing Senses/Operations to Free New World: Trades and tools for the Emerging Future</u></p> <p>Speaker: <u>Dr. Sharathchandra U. Pankanti</u>, IBM, Thomas J. Watson Research Center, Yorktown Heights, NY USA</p>
10.30 – 11.00 AM	:	Tea Break
<p>Session – 12 Tutorial - 3 Venue: <u>Conference Room - 212</u></p>		
11.00 AM – 1.00 PM	:	<p>Session Chair: <u>Prof. Atul Negi, UoH</u></p> <p>Session Coordinators: <u>Sabhpathy & Moulika</u></p> <p>Topic: <u>Image processing for fingerprints by wave and particle natures of local images</u> Speaker: <u>Prof. Josef Bigun</u>, Halmstad University, Sweden</p>
1:00 – 2:00 PM	:	Lunch
<p>Session – 13 System and Security Venue: <u>Conference Room - 212</u></p>		
2:00 PM – 3:00 PM	:	<p>Session Chair: <u>Dr Rajarshi Pal, IDRBT</u></p> <p>Session Coordinators: <u>ND Patel & Sai Ram</u></p>
2:00 PM – 2:20 PM	:	<p>Utilization of HOG-SVD based Features with Connected Component Labeling for Multiple Copy-move Image Forgery Detection</p> <p>Anuja Dixit (IIT(ISM), Dhanbad)*</p> <p>Soumen Bag (IIT (ISM) Dhanbad</p>
2:20 PM – 2:40 PM	:	<p>Removing Personally Identifiable Information from Shared Dataset for Keystroke Authentication Research</p> <p>Jiaju Huang (Clarkson University)</p> <p>Bryan Klee (Clarkson University)</p> <p>Daniel Schuckers (St. Lawrence University)</p> <p>Daqing Hou (Clarkson University)*</p> <p>Stephanie Schuckers (Clarkson University)</p>
2:40 PM – 3:00 PM	:	<p>Biometric based User Authentication Protocol for Mobile Cloud Environment</p> <p>Manojkumar Vivekanandan (NIT TRICHY AND IDRBT)*</p> <p>Sastry V. N (IDRBT HYDERABAD)</p> <p>Srinivasulu Reddy (National Institute of Technology Trichy)</p>
3.00 – 3.30 PM	:	Tea Break
<p>Session – 14 Behavioral Analysis Venue: <u>Conference Room - 212</u></p>		
3:30 PM – 4:30 PM	:	<p>Session Chair: <u>Dr NV Narendra Kumar, IDRBT</u></p> <p>Session Coordinators: <u>Shadab & Charles</u></p>

3:30 PM - 3:50 pm	:	User Behavior Profiling using Ensemble approach for Insider Threat detection Malvika Singh (NIT Trichy)* Babu Mehtre (IDRBT Hyderabad) Sangeetha S. (NIT Trichy)
3:50 PM – 4:10 PM	:	Forensic Performance on Handwriting to Identify Forgery Owing to Word Alteration Priyanka Roy (IIT(ISM) Dhanbad)* Soumen Bag (IIT (ISM) Dhanbad)
4:10 PM - 4:30 PM	:	An Efficient Online Signature Verification Based on Feature Fusion and Interval Valued Representation of Writer Dependent Features chandra V sekhar (Indian Institute of Information Technology-SriCity)*
Session – 15		
Valedictory		Venue: Conference Room - 212
4:30 – 5.00 PM	:	Session Chairs: <u>Prof Venu Govindaraju, University at Buffalo, NY, USA & Prof BM Mehtre, IDRBT</u> Session Coordinators: <u>Shadab & Charles</u>
