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Naser Damer*, Fraunhofer IGD; Yaza Wainakh, Fraunhofer IGD; Viola Boller, Fraunhofer IGD; Sven von den Berken, Fraunhofer IGD; Philipp Terhörst, Fraunhofer Institute for Computer Graphics Research IGD; Andreas Braun, Fraunhofer IGD; Arjan Kuijper, Fraunhofer Institute for Computer Graphics Research IGD and Mathematical and Applied Visual Computing group, TU Darmstadt

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David Yambay*, Clarkson University; Stephanie Schuckers, Clarkson University; Samantha Denning, Clarkson University; Constantin Sandmann, DERMALOG Identification Systems GmbH; Andrey Bachurinski, Green Bit s.p.a; Josh Hogan, Compact Imaging

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Fei Xiong*, Information Sciences Institute; Wael Abd-Almageed, Information Sciences Institute

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Yasushi Makihara*, Osaka University, Japan; Gakuto Ogi, Osaka University; Yasushi Yagi, Osaka University

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Joshua Engelsma*, Michigan State University; Kai Cao, Michigan State University; Anil Jain, Michigan State University

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Christof Kauba*, University of Salzburg; Bernhard Prommegger, University of Salzburg; Andreas Uhl, University of Salzburg

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Bernhard Prommegger*, University of Salzburg; Christof Kauba, University of Salzburg; Andreas Uhl, University of Salzburg

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Eduardo Ramos Muguerza*, University of Vigo; Laura Docio-Fernandez, Universidade de Vigo; Jose Alba-Castro, Vigo University

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Lei Shi*, University of Houston; Xiang Xu, University of Houston; Ioannis Kakadiaris, University of Houston

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Yichun Shi*, Michigan State University; Anil Jain, Michigan State University

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Anubhav Jain, Indraprastha Institute of Information Technology, Delhi; Richa Singh, IIIT-Delhi; Mayank Vatsa*, IIIT-Delhi

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Nathan Kalka*, Noblis; Brianna Maze, Noblis; James Duncan, Noblis; Kevin O'Connor, Purdue University; Stephen Elliott, Purdue Polytechnic Institute; Kaleb Hebert, Noblis; Julia Bryan, Purdue University; Anil Jain, Michigan State University

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Saksham Suri, IIITD; Anush Sankaran, IIIT Delhi; Mayank Vatsa*, IIIT-Delhi; Richa Singh, IIIT-Delhi

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Dinh-Luan Nguyen*, Michigan State University; Kai Cao, Michigan State University; Anil Jain, Michigan State University

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Qihao Yin,* Tsinghua University; Jianjiang Feng, Tsinghua University; Jiwen Lu, Tsinghua University; Jie Zhou, Tsinghua University, China

Latent Fingerprint Recognition: Role of Texture Template

Kai Cao*, Michigan State University; Anil Jain, Michigan State University

DeepMasterPrints: Generating MasterPrints for Dictionary Attacks via Latent Variable Evolution

Philip Bontrager*, New York University; Aditi Roy, New York University; Julian Togelius, New York University; Nasir Memon, New York University; Arun Ross, Michigan State University

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Simon Kirchgasser*, University of Salzburg; Andreas Uhl, University of Salzburg; Katy Castillo-Rosado, Advanced Technologies Application Center (CENATAV); David Estévez-Bresó, Advanced Technologies Application Center (CENATAV); Emilio Rodríguez-Hernández, Advanced Technologies Application Center (CENATAV); José Hernández-Palancar, Advanced Technologies Application Center (CENATAV)

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Ali Dabouei,* West Virginia University; Sobhan Soleymani, West Virginia University; Hadi Kazemi, West Virginia University; Seyed Mehdi Iranmanesh, West Virginia University; Jeremy Dawson, West Virginia University; West Virginia University

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Elham Tabassi, Michigan State University; Tarang Chugh,* Michigan State University; Debayan Deb, Michigan State University; Anil Jain, Michigan State University

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Raymond Veldhuis*, University of Twente; Kiran Raja, NTNU; Raghavendra Ramachandra, NTNU, Norway

On the Use of Mobile Calling Patterns for Soft Biometric Classification

Tempest Neal*, University of Florida; Damon Woodard, University of Florida

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Pankaj Wasnik*, NTNU; Raghavendra Ramachandra, NTNU, Norway; Kiran Raja, NTNU; Christoph Busch, Norwegian University of Science and Technology

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Hajime Nada*, Fujitsu Laboratories LTD.; Vishwanath Sindagi, Rutgers University; He Zhang, Rutgers; Vishal Patel, Rutgers University

Validation of Biometric Identification of Dairy Cows based on NIR Udder Images

Keivan Bahmani*, Clarkson University; Benjamin Schilling, Clarkson University; Stephanie Schuckers, Clarkson University

Gender Privacy: An Ensemble of Semi Adversarial Networks for Confounding Arbitrary Gender Classifiers Vahid Mirjalili*, Michigan State University; Sebastian Raschka, University of Wisconsin-Madison; Arun Ross, Michigan State University

On Efficiency and Effectiveness Trade-offs in High-Throughput Facial Biometric Recognition Systems

John Howard*, Maryland Test Facility; Andrew Blanchard, Maryland Test Facility

An Investigation of High-Throughput Biometric Systems: Results of the 2018 Biometric Technology Rally

John Howard*, Maryland Test Facility; Andrew Blanchard, Maryland Test Facility

SmartBox: Benchmarking Adversarial Detection and Mitigation Algorithms for Face Recognition

Akhil Goel, Indraprastha Institute of Information Technology, Delhi; Anirudh Singh, Indraprastha Institute of Information Technology, Delhi; Akshay Agarwal, IIIT Delhi; Mayank Vatsa*, IIIT-Delhi; Richa Singh, IIIT-Delhi

Who wants Continuous Authentication on Mobile Devices?

Sanka Rasnayaka*, National University of Singapore; Terence Sim, National University of Singapore

Special Session on Image And Video Forensics In Biometrics Oral Presentations

MorGAN: Recognition Vulnerability

and Attack Detectability of Face Morphing Attacks Created by Generative Adversarial

Network: Naser Damer; Alexandra Moseguí Saladié; Andreas Braun; Arjan Kuijper

PRNU Variance Analysis for Morphed Face Image Detection: Luca Debiasi; Christian Rathgeb; Ulrich Scherhag; Andreas Uhl; Christoph Busch

Mind the Gap: A Practical Framework for Classifiers in a Forensic Context:

Chris Zeinstra; Didier Meuwly; Raymond Veldhuis; Luuk Spreeuwers

Recent Advances in Biometric Technology for Mobile Devices Abhijit Das, Chiara Galdiy, Hu Han, Raghavendra Ramachandra, Jean-Luc Dugelay, Antitza Dantcheva, Inria, Sophia Antipolis, France, EURECOM, Sophia Antipolis, France, Institute of Computing Technology, CAS, China, Norwegian University of Science and Technology, Norway

Pulse-based Features for Face Presentation Attack Detection: Guillaume Heusch; Sebastien Marcel

Exploring the Use of IrisCodes for Presentation Attack Detection: Cunjian Chen; Arun Ross

Thermal Features for Presentation Attack Detection in Hand Biometrics: Ewelina Bartuzi; Mateusz M. Trokielewicz

Special Session on Recent Advances in Biometric Technology for Mobile Devices Oral Presentations: Applications

Mobile NIR Iris Recognition: Identifying Problems and Solutions: Heinz Hofbauer, Univ. of Salzburg*; Ehsaneddin Jalilian, Univ. of Salzburg; Ana Sequeira, UNIV. OF READING, UK; James Ferryman, UNIV. OF READING, UK; Andreas Uhl, Univ. of Salzburg

Heterogeneity Aware Deep Embedding for Mobile Periocular Recognition: Yashasvi Baweja, IIIT Delhi; Rishabh Garg, IIIT-Delhi; Soumyadeep Ghosh, IIIT Delhi; Mayank Vatsa, IIIT-Delhi; Richa Singh, IIIT-Delhi*; Nalini Ratha, IBM

Dual-Minimax Probability Machines for One-class Mobile Active Authentication: Pramuditha Perera, Johns Hopkins University*; Vishal Patel, Johns Hopkins University

Near-Infrared Illumination Add-On for Mobile Hand-Vein Acquisition: Luca Debiasi, University of Salzburg*; Christof Kauba, University of Salzburg; Bernhard Prommegger, University of Salzburg; Andreas Uhl, University of Salzburg

Comparison of Deep Learning Models for Biometric-based Mobile User Authentication: Sai Narsi Reddy Donthi Reddy, University of Missouri - Kansas City*; Ajita Rattani, University of Missouri - Kansas City; Prof. Reza Derakhshani, University of Missouri-Kansas City