Systems Council Chapter Presents

IEEE Distinguished Lecture Series on

Advanced Biometric Technologies for Automated Border Control

by Dr. Vincenzo Piuri

Date: February 2, 2017
Time: Thursday, 5:30-7:00 PM
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Abstract: Automation of border control gates, as well as easy identification in a variety of daily-life applications (ranging, e.g., from home banking to e-commerce and e-government), requires a high degree of confidence in the identification. Modern solutions are based on biometric technologies to ensure standard quality in operation, by mimicking the usual activities performed by humans in identifying individuals. Biometric technologies allow in fact for efficiently analyzing human traits (e.g., face, fingerprint, iris, palm) for identity management.

This talk will analyze the opportunities offered by emerging biometric technologies and their use for identity verification and recognition in automated border control systems and in many other critical applications. These technologies aim at increasing the usability of biometric systems and reducing the needs for carefully-controlled environment for biometry collection. Focus will be on less-constrained and contactless fingerprint, palmprint, and iris.

About Speaker: Dr. Vincenzo Piuri received his Ph.D. in computer engineering at Politecnico di Milano, Italy (1989). He was an Associate Professor at Politecnico di Milano, Italy and a Visiting Professor at the University of Texas at Austin and at George Mason University, USA. He is a Full Professor in computer engineering at the Università degli Studi di Milano, Italy (since 2000). He is Fellow of the IEEE, Distinguished Scientist of ACM, and Senior Member of

INNS. He has been IEEE Past Vice President for Technical Activities (2016), IEEE Vice President for Technical Activities (2015), IEEE Director, President of the IEEE Computational Intelligence Society, Vice President for Education of the IEEE Biometrics Council, Vice President for Publications of the IEEE Instrumentation and Measurement Society and the IEEE Systems Council, and Vice President for Membership of the IEEE Computational Intelligence Society. He is Editor-in-Chief of the IEEE Systems Journal (2013-17), and has been Associate Editor of the IEEE Transactions on Neural Networks and the IEEE Transactions on Instrumentation and Measurement. His main research interests are signal and image processing, biometrics, machine learning, pattern analysis and recognition, theory and industrial applications of neural networks, intelligent measurement systems, industrial applications, fault tolerance, digital processing architectures, embedded systems, and arithmetic architectures. He has more than 400 publications in international journals, proceedings of international conferences, books, and book chapters.

For more information, please contact the secretary of IEEE Coastal Los Angeles Systems Council Chapter, Dr. Hengzhao Yang at hengzhao.yang@csulb.edu. □