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Special Issue "Biometric Recognition In-The-Wild"

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Special Issue Editor



Prof. Dr. Hugo Pedro Proença

E-Mail () **Website** (<http://www.di.ubi.pt/~hugomcp>)

Guest Editor

Department of Computer Science, University of Beira Interior, 6201-001 Covilhã, Portugal

Interests: pattern recognition; computer vision; biometrics; visual surveillance

Special Issues and Collections in MDPI journals

Special Issue Information

Dear Colleagues,

The domain of Pattern Recognition has been attracting substantial research efforts, and is the scope of a large number of active research lines. Among these, biometrics is considered an especially successful case, even though performance is still strongly conditioned by the levels of cooperation demanded to subjects and by the environmental conditions during data-acquisition.

This Special Issue is particularly interested in emerging strategies to perform biometric recognition based on data acquired in wild scenarios, *i.e.*, outdoors, from large distances and without requiring subjects cooperation for data acquisition, which should dramatically decrease the discriminability of the information obtained. The development of such types of recognition systems will broaden the range of domains where biometrics can be used, particularly for forensic/security purposes.

Considering that many problems remain to be solved, and that the proposal of techniques effective in such challenging situations requires vigorous research efforts, we are particularly interested in novel ideas about how to compensate for the adversity of the data/environments to perform accurate biometric recognition.

Topics of interest include, but are not strictly limited to:

- Less controlled/covert data acquisition frameworks
- Detection of regions of interest (landmarks) in real-world data
- Segmentation of biometric traits
- Robust feature encoding / matching
- Multi-biometrics systems: fusion at different levels
- Biometric recognition in surveillance scenarios
- Announcement of challenging biometric data sets
- Ethical issues/concerns about covert biometric recognition systems
- Reaction plans against security incidents raised by automated recognition systems
- Biometric recognition benchmarks for unconstrained data acquisition environments

Dr. Hugo Pedro Proença

Guest Editor

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  (/2073-8994/7/4/1882/pdf)**Age Estimation-Based Soft Biometrics Considering Optical Blurring Based on Symmetrical Sub-Blocks for MLBP (/2073-8994/7/4/1882)**by  **Dat Tien Nguyen** (<https://sciprofiles.com/profile/118865>), **So Ra Cho** (<https://sciprofiles.com/profile/author/dm85dWpPa1huUm5PZERUUzhtbTJmRzhpM2JvbFRSaU40endweGIOZzF3ND0=>) and **Kang Ryoung Park** (<https://sciprofiles.com/profile/121297>)*Symmetry* **2015**, *7*(4), 1882-1913; <https://doi.org/10.3390/sym7041882> (<https://doi.org/10.3390/sym7041882>) - 19 Oct 2015**Cited by 5** (/2073-8994/7/4/1882#citedby) | Viewed by 3235**Abstract** Because of its many useful applications, human age estimation has been considered in many previous studies as a soft biometrics. However, most existing methods of age estimation require a clear and focused facial image as input in order to obtain a trustworthy estimation [...] **Read more.**(This article belongs to the Special Issue **Biometric Recognition In-The-Wild** (/journal/symmetry/special_issues/biometric_recognition))► **Show Figures**

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