

Table of Contents

BIOSIG 2010 – Regular Research Papers	11
Ali M. Al-Khouri Facing the Challenge of Enrolment in National ID Schemes	13
Johannes Merkle, Michael Schwaiger, Marco Breitenstein Towards Improving the NIST Fingerprint Image Quality (NFIQ) Algorithm	29
Tom Kevenaar, Ulrike Korte, Johannes Merkle, Matthias Niesing, Heinrich Ihmor, Christoph Busch, Xuebing Zhou A Reference Framework for the Privacy Assessment of Keyless Biometric Template Protection Systems	45
Johannes Merkle, Matthias Niesing, Michael Schwaiger, Heinrich Ihmor, Ulrike Korte Performance of the Fuzzy Vault for Multiple Fingerprints	57
Claudia Nickel, Xuebing Zhou, Christoph Busch Template Protection for Biometric Gait Data	73
Gerrit Hornung, Monika Desoi, Matthias Pocs Biometric systems in future preventive Scenarios – Legal Issues and Challenges	83
Sebastian Abt, Christoph Busch, Claudia Nickel Applikation des DBSCAN Clustering-Verfahrens zur Generierung von Ground-Truth Fingerabdruck-Minutien	95
BIOSIG 2010 – Further Conference Contributions	107
Jan Hirzel, Daniel Hartung, Christoph Busch Fingerprint Recognition with Cellular Partitioning and Co-Sinusoidal Triplets	109
Heiko Witte, Claudia Nickel Modular Biometric Authentication Service System (MBASSy)	115
Fares Rahmun, Sibylle Hick Towards Best Practices for Biometric Visa Enrolment	121

Anastasios Drosou, Konstantinos Moustakas, Dimos Ioannidis, Dimitrios Tzovaras	
Activity Related Biometrics based on motion trajectories	127
Olegs Nikisins, Modris Greitans, Rihards Fuksis, Mihails Pudzs, Zanda Serzane	
Increasing the Reliability of Biometric Verification by using 3D Face Information and Palm Vein Patterns	133
Frank Breitinger, Claudia Nickel	
User Survey on Phone Security and Usage	139
Jan H.A.M. Grijpink	
The meaningful, safe and reliable use of biometrics	145