



Environmental Testing Methodology in Biometrics

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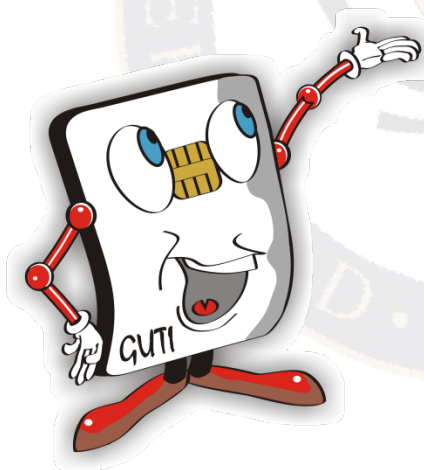
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Environmental Evaluation

Environmental factors



Users

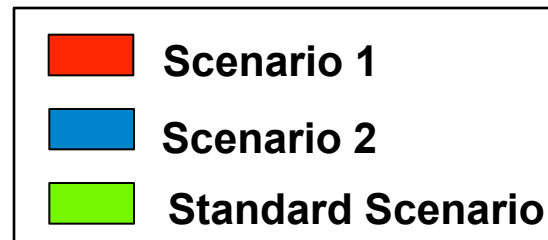
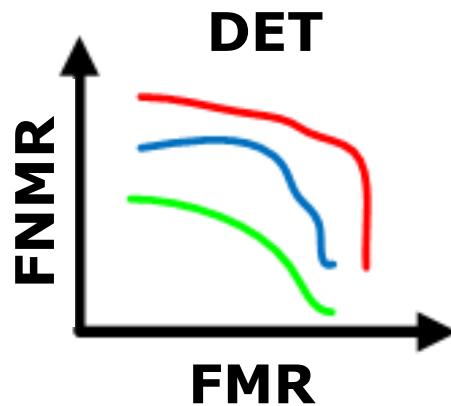
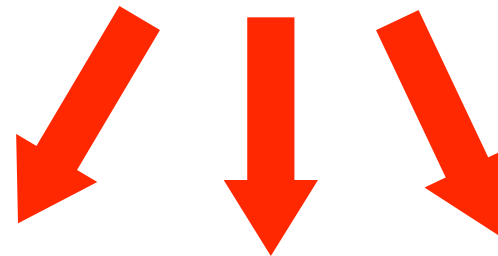


Biometric system

Test instruments



Test methodology



Performance rates



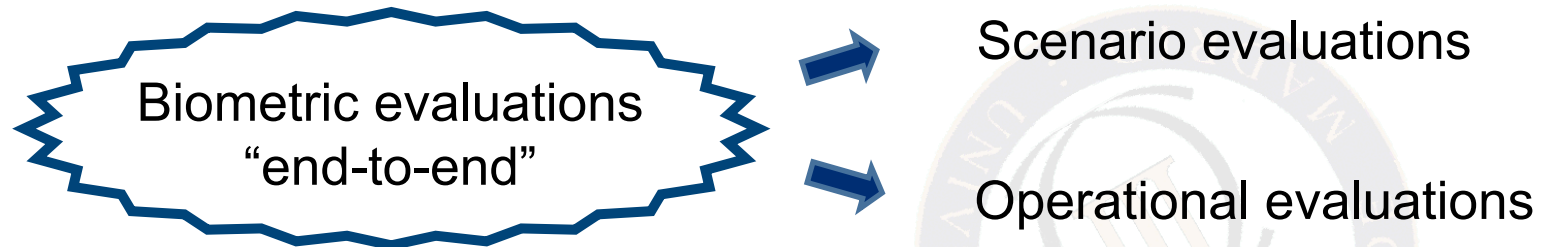


Environmental Scenarios

- Defined considering the environmental parameter under study
 - This parameter shall be set to an specific value
 - The rest of them shall be kept inside the range defined in the standard scenario
- Three kinds of environmental scenarios
 - Operational range
 - Extreme conditions
 - Free conditions



Biometric Evaluation



- Specific requirements for performing the environmental tests:
 - Environment: particular scenario to test
 - Users: special guides and training
 - Acclimatization
 - Data collection: matching scores and environmental data collected at the same moment
 - Performance metrics: they shall be calculated for different scenarios





THANK YOU FOR YOUR ATTENTION

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