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Improved Ear Verification After Surgery - An Approach Based on Collaborative Representation of Locally Competitive Features

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**Highlights**

- Presents a comprehensive study for biometric verification performance of ears before and after surgery.
- Extensive study on different type of ear-surgery is presented along with a new public ear database.
- Presents a new feature extraction technique based on Topographic Locally Competitive Algorithm.
- Demonstrates superior verification performance on both normal ear database and surgically modified ear database.
- Discussion on computational complexity and state-of-art performance.

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