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this textbook introduces the fundamental concepts and techniques used in biometric recognition to students practitioners and non experts in the field specifically the book describes key methodologies used for sensing feature extraction and matching of commonly used biometric modalities such as fingerprint face iris and voice in addition it presents techniques for fusion of biometric information to meet stringent accuracy requirements also discussing various security issues and associated

remedies involved in the deployment of biometric systems furthermore this second edition captures the progress made in the field of biometric recognition with highlights including lucid explanation of core biometric concepts e g individuality and persistence which builds a strong foundation for more in depth study and research on biometrics a new chapter on deep neural networks that provides a primer to recent advancements in machine learning and computer vision illustrative examples of how deep neural network models have contributed to the rapid evolution of biometrics in areas such as robust feature representation and synthetic biometric data generation a new chapter on speaker recognition which introduces the readers to person recognition based on the human voice characteristics presentation of emerging security threats such as deepfakes and adversarial attacks and sophisticated countermeasures such as presentation attack detection and template security while this textbook has been designed for senior undergraduate students and first year graduate students studying a course on biometrics it is also a useful reference guide for biometric system designers developers and integrators

issues for 1973 cover the entire ieee technical literature

contributed articles presented at 83rd annual conference of the indian economic association held at jammu university during dec 30 31 2000 and january 1 2001

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