Name	Isao Echizen, Professor	**Location**	NII	**Research Field**	Multimedia, Information Security, Privacy Protection

Our research topics span a wide of range, including the basic theory and applied systems. Especially we focus on the integrated area of multimedia and information security as well as that of multimedia and privacy protection.

Laboratory URL: http://research.nii.ac.jp/~iechizen/official/index-e.html

Main research themes:
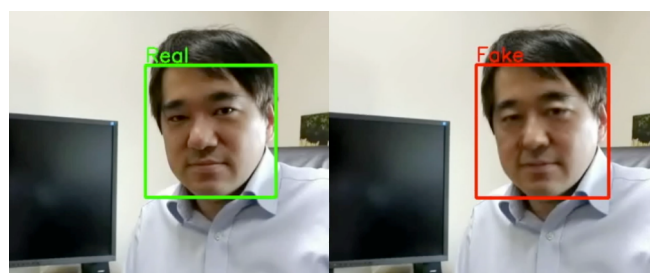
Biometric identity theft prevention

With widely use of high-performance cameras and microphones in modern society, it has been pointed out that it is possible to acquire someone's biometric information through remote capturing. This research establishes a technical platform for enabling control over the acquisition of personal biometric information and distribution of that information in cyber space based on that person's wishes.
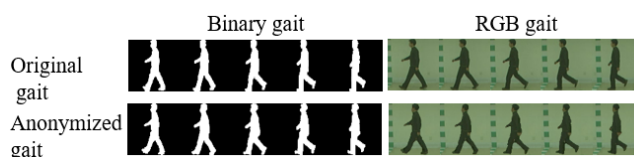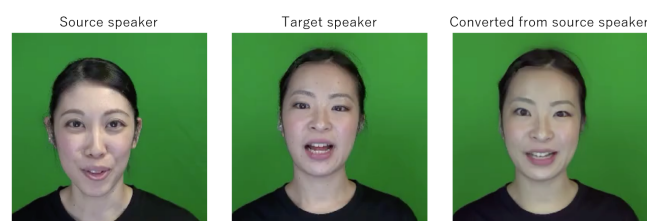
Biometric spoofing and anti-spoofing

There are concerns that the diffusion of cameras, microphones, and other types of sensors in society can lead to invasions of privacy because of chaotically sharing of face, voice, and gait in the virtual world. In addition, advances in multimedia processing are making it possible to impersonate (spoof) just about any real-world person in the virtual world. This research establishes a platform for protecting and using multimedia information, which aims to provide biometric (anti-)spoofing and anonymize biometric information.

In addition to the above, we are also engaged in research on fundamental technologies and system technologies related to information security and privacy protection.

PrivacyVisor® protecting against facial detection and BiometricJammer preventing fingerprint capture

Fake video detection

Gait anonymization using GAN

Audiovisual speaker transformation

Email: iechizen<at>nii.ac.jp, TEL:+81-3-4212-2516