

# 計算知能学 (延原 肇)

## Computational Intelligence (NOBUHARA Hajime)



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### 計算知能学とマルチメディア処理

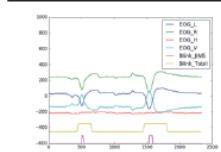
#### ～世の中を快適にするためのマルチメディアのスーパーインフラをつくりあげる～

が大局的な研究戦略になります。この目標の下、日夜研究に取り組んでいます。より具体的には、インターネット上を流れる膨大で様々なメディア（テキスト、画像、音）やデータ（医療、公共サービス、金融）、それを生み出すデバイス、消費するデバイスを含め、計算知能学（AIを含むより広義なインテリジェンス）を使って、いかに人々の生活を「本質的」によりよいものにしてゆくのかを、産業としての視点、また実用から基礎理論の視点で、幅広く研究しています。さらに多様な分野を、アセットからデータ連携、倫理・法的ハードルの解消、ルール策定などのデータアーキテクチャにも興味を持って取り組んでいます。

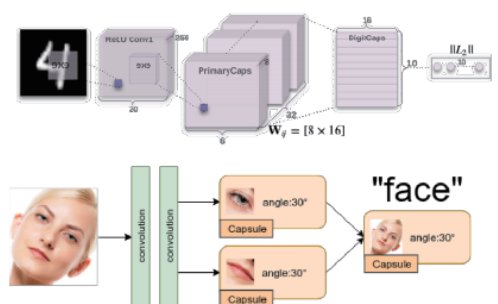
### Computational Intelligence and Multimedia Processing

"A comprehensive research strategy is to create a super multimedia infrastructure to make the world a better place". Under this goal, we are engaged in research day and night. More specifically, we use computational intelligence (broader intelligence including AI) to study how to make people's lives better "essential" from an industrial point of view and from a practical to basic theoretical point of view, including the enormous variety of media (text, images, and sounds) and data (healthcare, public services, and finance) flowing on the Internet, the devices that produce them, and the devices that consume them. We are also involved in a wide range of areas with interest in data architecture, including asset, data collaboration, elimination of ethical and legal hurdles, and rulemaking.

#### An example of computational intelligence and multi-media labotaroty projects

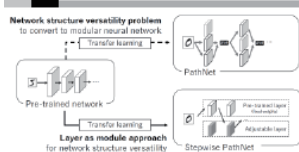


#### Internal States

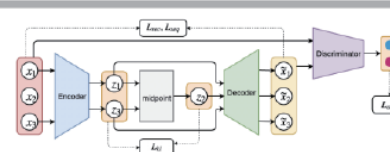


Estimation of human internal state (based on eye tracking) by the most familiar and popular device (smart phone, in-camera) in the world. Realization of intrinsic big data acquisition by enormous sensors, and it can correspond to the design of every business package.

#### Other Projects



Transfer Learning



GAN



Blockchain



Drone