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immobilization techniques, immuno-assays, and nanomaterials for biosensor and other biomedical techniques. The book includes a special focus on gene-based solutions and applications through computational intelligence techniques.

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Computation intelligence techniques such as neural networks and evolutionary algorithms are nature-inspired computational approaches to address complex problems of the real world. Recently, computational

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intelligence is playing an important role in biomedical research fields, such as computer-aided diagnostics (CAD), computer-aided surgery (CAS), computational anatomy, and bioinformatics.

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Demonstrate an advanced understanding of the principles of computational intelligence.

Systematically apply computational ...

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ES97K - Computational Intelligence in Biomedical Engineering

In this field-specific reference, the authors focus on the use of computational intelligence (CI) techniques in biomedical applications. The volume illustrates how CI techniques can offer solutions in modeling,

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relationship pattern recognition, clustering, and other problems specific to biomedical engineering.

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such as neural networks and
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inspired computational approaches to

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Research in Computational Biomedical Engineering at Carnegie Mellon University leverages CMU's core strengths in computer science, machine learning, computational neuroscience, and mechanics. This research is enhanced through close interactions with our research partners such as BrainHub, the Center for the Neural

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Basis of Cognition, Machine Learning
Department, and the Center for the
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The use of feature health engineering
and computational intelligence

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(commonly known as artificial intelligence (AI)) methods to turn these ever-growing health monitoring data into clinical benefits seems as if it should be an obvious path to take.

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computational genomics computational

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mechanistic models, and simulations to describe observed biological phenomena and data, derive new biological insights, and ultimately translate to impacts on scientific discoveries, human health, and patient care.

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Computational neuroscience, artificial intelligence, connectomics, comparative genomics, synthetic gene circuits, and optogenetics. Guijin Wang, PhD
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**Tsinghua Faculty | Johns Hopkins
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