

### **digital communication systems neural networks pdf**

Digital Communication Systems \_\_\_\_ Lab Session 1 NED University of Engineering & Technology “ Department of Computer & Information Systems Engineering 3 This is a high-level matrix/array language with control flow statements, functions, data structures,

### **Practical Workbook Digital Communication Systems**

The design and analysis of communication systems typically rely on the development of mathematical models that describe the under-lying communication channel. However, in some systems, such as molecular communication systems where chemical signals are used for transfer of information, the underlying channel models are un-known.

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Although recurrent neural network (RNN) [10] can process long code, some performance degradation appears since the neural network is unable to make the best use of the continuous inputs. Compared to other machine learning based equaliza-tion schemes, CNN requires minimal data preprocessing and have strong capabilities of feature extraction.

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Applications of neural networks to digital communications3.1. Nonlinear channel modeling and identificationChannel modeling and identification is a very important task in digital communications (see e.g. ). It can be used for several purposes, such as receiver design, computer simulation and performance evaluation of communication channels, diagnosis, fault detection, etc.

### **Applications of neural networks to digital communications**

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ing on hardware and software for these systems, which is much like hardware and software for many other kinds of systems, we focus on the fundamental system aspects of modern digital communication. Digital communication is a ield in which theoretical ideas have had an unusually powerful impact on system design and practice.

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