
Chaos Based Digital Communication Systems Operating Principles Analysis Methods And Performance Evaluation

performance of chaos-based digital communication systems - circuits systems signal processing c birkh" auser boston (2004) vol. 23, no. 3, 2004, pp. 169-194 performance of chaos-based digital communication systems in **performance of chaos-based encryption algorithm for ...** - 676 issn: 1693-6930 telkomnika vol. 12, no. 3, september 2014: 675 - 682 2. encryption algorithm encryption algorithm for digital image in this paper uses logistic map as a chaos **an improved multiple access scheme for chaos-based digital ...** - an improved multiple access scheme for chaos-based digital communications using adaptive receivers wai m. tam, francis c.m. lau and chi k. tse department of electronic and information engineering, **some hints for the design of digital chaos-based ...** - in some encryption schemes the transformation of the plaintext into the ciphertext is leading either by a procedure derived using only the key, or by a sampling process **chaos-based digital communication systems - toc** - signals and communication technology chaos-based digital communication systems operating principles, analysis methods, and performance evaluation **some basic cryptographic requirements for chaos-based ...** - digital chaos-based cryptosystems (also called digital chaotic ciphers), on the other hand, are designed for digital computers, where one or more chaotic maps are implemented in finite computing precision to encrypt **research on digital image encryption algorithm based on ...** - therefore, the research of digital image encryption algorithm based on chaos technology has become an important means of modern digital image encryption. in this paper, the digital image encryption technology is studied with the dual logistic chaotic map as a tool. the simulation experiments are carried out by using the classical lena image and the life picture, and the results are analyzed ... **chaos based cryptography : a new approach to secure ...** - chaos based cryptography : a new approach to secure communications q.v. lawande theoretical physics division and b. r. ivan and s. d. dhodapkar reactor control division introduction cryptography is the science of protecting information during the privacy of communication under hostile conditions. in the present era of information technology and proliferating computer network communications ... **techniques in secure chaos communication - rmit university** - techniques in secure chaos communication a phd thesis by yuu-seng lau (b. eng. elect. eng., b. comp. sci.) school of electrical and computer engineering **optimum design for correlator-type receivers in chaos ...** - fig. 1: chaos-based digital communication system. where (7) denotes the energy of during the, or the energy of the chaotic samples. duration, the correlator output, denoted by **chaos based image encryption and decryption** - proposed an efficient diffusion scheme for chaos-based digital image encryption. in the proposed scheme the plain image is permuted using arnold cat map. the permuted image undergoes diffusion procedure using logistic map. a supplementary diffusion is padded after normal diffusion to accelerate the spreading scale remarkably. in this project we will be referring to the technique proposed by ... **some hints for the design of digital chaos-based ...** - some hints for the design of digital chaos-based cryptosystems: lessons learned from cryptanalysis david arroyo*, gonzalo alvarez* and shujun li** **study of anti-jamming capabilities of chaotic digital ...** - in this paper, we investigate the performance of chaos-based digital communications system when the channel is subject to a jamming signal as well as additive white gaussian noise. fig. 1 shows a block diagram of the system under study. instead of studying the bandpass system shown in fig. 1 directly, we transform the bandpass system to an equivalent baseband model and analyse the system using ... **digital communication using chaotic-pulse-position ...** - digital communication using chaotic-pulse-position modulation nikolai f. rulkov, mikhail m. sushchik, lev s. tsimring, and alexander r. volkovskii abstract— utilization of chaotic signals for covert communications remains a very promising practical application. multiple studies indicate that the major shortcoming of recently proposed chaos-based communication schemes is their susceptibility ... **journal of computing: a chaos-based image encryption ...** - by matthews [9], since then, many chaos-based digital image encryption schemes have been proposed and analyzed in the literature. among these encryption schemes, one-dimensional and two-dimensional chaotic systems, such as logistic map, unimodal skew tent map, arnold map, baker map and standard map, were applied widely owing to the advantage of simplicity [4-7,10-12]. however, some chaos-based ...

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