

An Algorithm For Stability Determination Of Two Dimensional Delta Operator Formulated Discrete Time Systems

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An Algorithm For Stability Determination

In the mathematical subfield of numerical analysis, numerical stability is a generally desirable property of numerical algorithms. The precise definition of stability depends on the context. One is numerical linear algebra and the other is algorithms for solving ordinary and partial differential equations by discrete approximation. In numerical linear algebra the principal concern is instabilities caused by proximity to singularities of various kinds, such as very small or nearly colliding eigen

Numerical stability - Wikipedia

Stability, also known as algorithmic stability, is a notion in computational learning theory of how a machine learning algorithm is perturbed by small changes to its inputs. A stable learning algorithm is one for which the prediction does not change much when the training data is modified slightly. For instance, consider a machine learning algorithm that is being trained to recognize handwritten letters of the alphabet, using 1000 examples of handwritten letters and their labels ("A" to "Z ...

Stability (learning theory) - Wikipedia

An algorithm for stability determination of two-dimensional delta-operator formulated discrete-time systems Article (PDF Available) in Multidimensional Systems and Signal Processing 6(4):287-312 ...

(PDF) An algorithm for stability determination of two ...

A sorting algorithm is said to be stable if two objects with equal keys appear in the same order in sorted output as they appear in the input array to be sorted. Formally stability may be defined as, Let be an array, and let be a strict weak ordering on the elements of .

Stability in sorting algorithms - GeeksforGeeks

In this paper, a constructive algorithm for a rigorous stability analysis of the equilibrium point of the above-mentioned system is presented. This algorithm has been developed on the basis of a method proposed in [1]. The main idea of this method is to construct and normalize a symplectic map generated by the phase flow of a Hamiltonian system.

On the Constructive Algorithm for Stability Analysis of an ...

algorithm proposed in [2] to a large number of tasks is given in [4]. Within the same framework, the work presented in [5] investigates the use of a proper weighted pseudo-inverse. In [6] the null-space projector is used together with a projection based on the transpose of the Jacobian and the stability analysis is presented for the two-task case.

Stability Analysis for Prioritized Closed-Loop Inverse ...

A new algorithm for analyzing wellbore stability using GA-proxy-feedback control was introduced, and it could reduce time of optimization process. High coefficient of determination of test and train data verifies the ability of ANN to predict NYZA from the simulation of wellbore model.

A population-feedback control based algorithm for well ...

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This paper conducts the stability analysis of the SSTT system using two recently developed model-based integration algorithms with controllable numerical energy dissipation, i.e., the KR- α and the MKR- α algorithms. The formulation of the SSTT system using the two families of algorithms are derived.

Stability analysis of substructure shake table testing ...

ALGORITHM FOR MANAGEMENT OF PATIENTS WITH RESPIRATORY, GASTROINTESTINAL, OR CONSTITUTIONAL SYMPTOMS AND E-CIGARETTE, OR VAPING, PRODUCT USE (12/20/2019)

Outpatient clinical evaluation • Consider CXR if patient has chest pain, shortness of breath or if indicated by other clinical findings • Consider influenza testing Management of possible EVALI

ALGORITHM FOR MANAGEMENT OF PATIENTS WITH RESPIRATORY ...

In this study, we consider two versions of DRL-based algorithms for stability analysis: gait-specific and gait-conditioned. The gait-specific algorithm serves as a common component of recent biped Figure 2: Our full-body dynamics model. Green balls and blue cylinders represent ball-and-socket (3 DoF) joints and revolute (1 DoF) joints ...

Understanding the Stability of Deep Control Policies for ...

Summary. The conventional method for multiphase flash is the sequential usage of phase-stability and phase-split calculations. Multiphase flash requires the conventional method to obtain multiple false solutions in phase-split calculations and correct them in phase-stability analysis.

A Unified Algorithm for Phase-Stability/Split Calculation ...

An efficient multi-stages algorithm for the determination of communication network reliability . Musaria K. Mahmood, Fawzi M. Al-Naima, and Lujain S. Abdulla . T .

An efficient multi-stages algorithm for the determination ...

To reflect this continuity, an algorithm should ensure that small changes in the input data should lead to small changes in the output. We say that algorithms which have this property are stable, and the stability of an algorithm can act as a measure for how well an algorithm can preserve the continuous changes in the data.

Analyzing and developing algorithms for time-varying data

In the general nonsymmetric case, when closed-form derivation is not possible, we construct specific randomized algorithms which provide a probabilistic estimate of the local stability of the network. In particular, we use Monte Carlo as well as quasi-Monte Carlo techniques for the linearized model.

Randomized algorithms for stability and robustness ...

For slope stability prediction, Qi and Tang 38 developed six different soft computing models based on a meta-heuristic algorithm (i.e., firefly optimization) and machine learning algorithms (i.e.,...

Prediction of slope failure in open-pit mines using a ...

Probabilistic Ellipsoid Algorithm (PEA) is given to solve the robust LMI problem, which can guarantee the feasibility of a given solution candidate with an a-priori fixed probability of violation and with a fixed confidence level. We also introduce two approaches to approximate the robust region of at-

The Pennsylvania State University The Graduate School ...

A simple algorithm is also presented for stability analysis calculations in the reduction method. As in the past, only the Newton method is used in the solution of nonlinear equations except in some isolated iterations when one single successive substitution (SSI) iteration may be required to avoid nonphysical conditions.

Simple phase stability-testing algorithm in the reduction ...

CiteSeerX - Document Details (Isaac Councill, Lee Giles, Pradeep Teregowda): This paper initiates a study toward developing and applying randomized algorithms for stability of high speed communication networks. We consider the discrete-time version of the nonlinear algorithm introduced in [1], which uses as feedback variations in queueing delay information from bottleneck nodes of the network.

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CiteSeerX — Randomized Algorithms for Stability and ...

Conclusions In a high-risk cohort, a boosted ensemble algorithm can be used to predict CL from non-CL precursors on coronary CTA. A Boosted Ensemble Algorithm for Determination of Plaque Stability in High-Risk Patients on Coronary CTA | JACC: Cardiovascular Imaging

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