

Chapter

Food Monitoring Using Adaptive Naïve Bayes Prediction in IoT

January 2020

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Abstract

In real time, everything requires monitoring and controlling, especially in case of the protecting food from getting spoiled. In this paper, an Internet of Thing (IoT) based framework for food monitoring is proposed to protect food from getting spoiled due to changes in the environmental conditions during storage. In the existing scenario the prediction has been done based on the recorded sensed data and detailed analysis have been done to identify the factors affecting the food to get spoiled. Automated controlling mechanism is proposed in this work for controlling the environmental parameters with adaptive Naïve Byes prediction and IoT. In the proposed work, environmental parameters like temperature, humidity, moisture, light, etc., which affect on the quality of the nutritional values of food are considered which spoil the food, if they are not in the advisable range of their values. In this work online analysis would be done to predict the nutritional condition of the food to avoid the spoilage of the food. This will help to save food from getting spoiled and reduces the incidental losses in the business. All the sensed data will be stored on a cloud and the analysis would be performed for prediction of the environmental condition at the storage place to avoid food spoilage by changing to the suitable environmental condition, at the place. In the proposed work adaptive Naïve Bayes method is used for prediction of environmental condition at the place where food is stored and the harmful changes are monitored and action will be taken to provide advisable condition at the stored location.

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Machine Learning Techniques for IoT Data Analytics

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Apr 2021

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Intelligent decision-making in Smart Food Industry: Quality perspective

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Dec 2020

● Munish Bhatia · ● Tariq Ahamed Ahanger

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Game theory based framework of smart food quality assessment

Article

Mar 2020


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Alexa's Voice Recording Behavior: A Survey of User Understanding and Awareness

August 2019

 [Yousra Javed](#) · [Shashank Sethi](#) · [Akshay Jadoun](#)

The use of Amazon's virtual assistant Alexa in controlling smart home devices is on the rise. The convenience provided by an Alexa-enabled device comes at the cost of Alexa service's voice recording and storage behavior, raising privacy concerns. Amazon claims to record and store voice data in the cloud only when the wake word is spoken. However, Alexa records user's voice even at times when the ... [\[Show full abstract\]](#)

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Storage access support for soft real-time applications

June 2004

[J.C. Wu](#) ·  [Scott A. Brandt](#)

Most research on QoS-aware storage has focused on the use of QoS-aware disk schedulers. However, the increasing intelligence and autonomy of modern disk drives have made fine-grained external disk scheduling difficult. As this trend continues, providing QoS-aware storage through external disk schedulers may become infeasible in the future. In this paper, we present a coarse-grained approach to ... [\[Show full abstract\]](#)

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An identity-based motivational model of the effects of perceived discrimination on health-related be...

March 2016 · *Group Processes & Intergroup Relations*

 [Laura Richman](#) · [Alison Blodorn](#) ·  [Brenda Major](#)

Perceived discrimination is associated with increased engagement in unhealthy behaviors. We propose an identity-based pathway to explain this link. Drawing on an identity-based motivation model of health behaviors (Oyserman, Fryberg, & Yoder, 2007), we propose that perceptions of discrimination lead individuals to engage in ingroup-prototypical behaviors in the service of validating their ... [\[Show full abstract\]](#)

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A step-by-step description of a computationally efficient version of multiple hypothesis tracking

August 1992 · *Proceedings of SPIE - The International Society for Optical Engineering*

[John R. Werthmann](#)

Under the recently completed Covert Air Combat Definition Study, a form of multiple hypothesis tracking, known as structured branching (SB/MHT), was developed and tested by Hughes Radar Systems Group. SB/MHT offers significant computational savings compared to other approaches, enabling it to maintain a great number of hypothesized tracks, initiated in high false alarm environments without ... [\[Show full abstract\]](#)

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Article

Colour measurement as indicator for controlling the manufacture and storage of enteral formulas

June 2006 · Food Control

● José Ángel Rufián Henares · ● Eduardo Guerra-Hernández · ● Belen Garcia-Villanova

Reflectance colour measurement was used to control the browning reaction during the manufacture (untreated, UHT, standardisation and bottle sterilisation) and storage (4, 20, 32 and 55 °C from 1 to 36 weeks) of two types of enteral formula (3.7% and 5.4% protein). Precision studies showed coefficients of variation of 0.19%, 4.77% and 1.02% for L *, a * and b * parameters respectively. The a * ... [\[Show full abstract\]](#)

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The distributional effects of growth : case studies vs. Cross-country regressions.

January 2002

● Francois Bourguignon

Considerable attention has been devoted lately to the empirical relationship between growth and inequality. Mostly based on cross-sectional econometric analysis, this literature is largely inconclusive in the sense that no systematically significant relationship has been found between distribution indicators and growth rates or their known determinants. Were such a result granted, it would be ... [\[Show full abstract\]](#)

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Complete modeling and parameter optimization for virtual ring rolling

October 2010 · International Journal of Mechanical Sciences

● Zewu Wang · J.P. Fan · ● D.P. Hu · [...] · ● Gary Tsui

Virtual manufacturing, usually consisting of complete modeling and optimization, of a manufacturing process has recently become one of the research trends in the area of process designing and selection. With the aim to realize complete modeling of a ring rolling process, a complex actuation mechanism model of a heavy radial–axial ring rolling machine has been established in this study. Moreover, ... [\[Show full abstract\]](#)

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Conference Paper

Development of IoT Enabled Smart Energy Meter with Remote Load Management

December 2018

● Sai Shibu N B · Aravind Hanumanthiah · ● Sai Rohith · [...] · J V S Pavan

A smart energy meter provides real time power consumption data. This helps the consumer to manage their power requirement efficiently and economically. In a developing country like India, there is a rapid growth in the power sector. This paper explains the development of an IoT enabled smart energy meter capable of real time load management. The real time energy monitoring is visualized using a ... [\[Show full abstract\]](#)

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Security constrained dispatch using linear programming

July 1994

Wendong Zhu · Yuguo Hao ·  Guangyi Liu · [...] · Haizhong Wang

A security-constrained dispatch method using linear programming was proposed in this paper. Based on the linear programming of the second order reduced basis equation, this method has fast execution speed, high reliability and requires small computer storage. The general power system variables and limits are used. The controllable variables are divided into three types, so it is easy to ... [\[Show full abstract\]](#)

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Turning the page on HVAC retrofit

September 1995

Bernard W. Nelson




Milwaukee's Public Library undergoes an HVAC systems retrofit to cut utility bills and improve comfort and storage conditions. The retrofit, which will save an estimated \$50,000 a year, is part of the energy-management plan developed in the early 1980s. Initially, savings were achieved by replacing magnetic ballasts with electronic ballasts and 40-watt lamps with 34-watt lamps. Over-illuminated ... [\[Show full abstract\]](#)

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Cloud of Things: Integrating Internet of Things and cloud computing and the issues involved

January 2014

 Mohammad Aazam ·  Imran Khan · Aymen Abdullah Alsaffar ·  Eui-nam Huh

With the trend going on in ubiquitous computing, everything is going to be connected to the Internet and its data will be used for various progressive purposes, creating not only information from it, but also, knowledge and even wisdom. Internet of Things (IoT) becoming so pervasive that it is becoming important to integrate it with cloud computing because of the amount of data IoT's could ... [\[Show full abstract\]](#)

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Article

REAL-TIME IMAGE SUBTRACTION WITH UNDEVELOPED DICHROMATE GELATIN FILMS.

January 1986

 Sergio Calixto · Roger A. Lessard · Feng-lin Zhang · Yi-mo Zhang

The basic principle and some useful methods of real-time image subtraction are described. The subtraction has been achieved by two holographic methods. One of the two methods is based on D. Gabor's experiment and the other uses undeveloped DCG (dichromate gelatin) as the recording material. A study shows that the diffraction efficiency of the real-time holograms can be maximized by controlling ... [\[Show full abstract\]](#)

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