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Mathematical Analysis of Bronchitis infection 1861

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The Probability Strata: Algorithmic Approach to DRDoS Defense 1865

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A Review of Some Generalized Fuzzy Operators in Decision Making Processes 1871

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Agretl: Tool for ETL Activities for Agriculture Domain 1877

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Weighted Association Rule Mining for the Occurrence of the Insect Pest Helicoverpa Armigera(Hübner) Related with a BIotic Factors on Cotton 1884

M Pratheepa, Abraham Verghese and H Bheemanna

In-Silico Identification of Inhibitors for Controlling Rice Blast 1888

A K Mishra, Amrender Kumar and A K Jain

Software Process Model for Agricultural Productivity Analysis 1893 *Rajni Jain and S Surchand Singh*

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Online Software for Forewarning of Onion Thrips 1898

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Applying Data Mining Techniques to Predict Yield of Rice in Humid Subtropical Climatic Zone of India 1901 Niketa Gandhi and Leisa Armstrong

Agricultural Decision Support Framework for Visualisation and Prediction of Western Australian Crop Production 1907 Leisa J Armstrong and Sreedhar A Nallan

Smart Farming using Arduino and Data Mining 1913

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Eresource for Dus Characterization of Maize Varieties and I+E471nbreds 1918

Mukesh Kumar, Arun Gupta, S Amrapali, P K Agrawal, V Mahajan, L Kant and J K Bisht

Interpolating Climate Data using wTICD: A Web Based Tool 1923

Ipshita Roy Chowdhury, Anshu Bharadwaj, S N Islam, K K Chaturvedi, Prachi Mishra Sahoo and R K Paul

Determinants of Adoption of IPM in Cauliflower Cultivation in Haryana State 1930

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A Hybrid Linked Data Query Execution Approach using Backlinks 1936

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Inter Digital Transducer Modelling through Mason Equivalent Circuit Model Design and Simulation 1941 Dipti Mishra, Abhishek Singh, D M Akbar Hussain, Sweety Dabas and Minal Dhankar

Circuit Segmentation using GP in FPGA's Technology Mapping 1947

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Detecting Imposture in Mobile Application 1952

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GSM based Advanced Noticeboard Display 1958

B S Chowdhry, Azam Rafique Memon, Sonia Bibi, Rizwan Ali Shah and Quratulain Pathan

Projection Virtual Keyboard using Echo Sound Technique and Image Processing for Mobile Phone 1963 Amid Patel, Zeenat Shaikh, Harshal Ahire and Kumari Neha

Grade Identification of Astrocytoma using Image Processing - A Literature Review 1968 *Chaitanya Singla and Sheifali Gupta*

Lvdci Io Standard based Green Parallel integrator Design in Green Communications on FPGA 1974 Bishwajeet Pandey, Love Kumar, Tanesh Kumar and Manoj Kumar

Automated Microcalcification Analysis using Breast Mammogram 1980 Sushma S J and Prasanna Kumar S C

High Performance Design of 100Gb/S Dpsk Optical Transmitter 1984

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Low Power & High Performance Implementation of Multiplier Architectures 1989 Gaurav Verma, Oorja M Srivastava, Sushant Shekhar, Shikhar Maheshwari and Sukhbani Kaur Virdi

Matlab based FPGA Power Validation Utility 1993 Gaurav Verma, Sushant Shekhar, Shikhar Maheshwari, Sukhbani Kaur Virdi and Oorja M Srivastava

Automated Red Light Enforcement Camera for Traffic Control 1997

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Low Power Implementation of Telecommunication Switching Architectures for Network on Chip 2004

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