Calls for Papers (special): Journal of Intelligent Systems, De Gruyter

Special Issue On
Handwritten Document Processing using Machine Learning

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Guest Editor
Prof. Sk Md Obaidullah, Aliah University, Kolkata, India
Prof. K. C. Santosh, The University of South Dakota, South Dakota, USA
Prof. Nibaran Das, Jadavpur University, Kolkata, India
Prof. Kaushik Roy, West Bengal State University, Kolkata, India

Introduction
In today’s world, we are surrounded by huge volumes of data of various categories. Due to economic reasons or business requirements, there is a great demand for quickly inputting the mountains of printed and handwritten information into the computer. Very often these data exist on paper as printed or handwritten forms and they have to be manually typed to store into the computer, for example, billions of letters in the mail, checks, payment slips, income tax forms, and many other business forms and documents. Document Image Processing is an area of research where people try to develop sophisticated techniques to solve the aforesaid problem by an automated process. In general, handwritten document processing is a challenging area of research compared to print one, due to the versatile nature of the written texts which varies drastically from person to person. Often these features are helpful also to understand the uniqueness of more than one person by understanding their handwriting. All these issues represent this area as a challenging and interesting one.

On the other hand Machine Learning is a study of various algorithms which tries to build data driven model or predictions. The problem domain includes Classification, Clustering, Regression, Association Rules and so on. Here, we invite original manuscripts from researchers on various real life problems from the broad area related to Handwritten Document Processing which are solved by various Machine Learning approaches.

Objective
Handwritten Document Processing has various applications starting from simple automation like OCR to the area of biometrics like Signature Verification. The main focus of this special issue is to provide the latest advancements in the problem domain of Handwritten Document Processing which are solved by various Machine Learning algorithms. So, we encourage researches to submit original works which recommended in the following section.
Recommended Topics
Original research works from the area of Handwritten Document Processing with an emphasis of solving using Machine Learning techniques are welcome. Following topics include but not limited to:

- Recognition of Alphanumeric Characters, Symbols, Equations
- Segmentation of Handwritten Documents into Paragraphs/Lines/Words/Characters
- Document Information Extraction and Understanding
- Tables, Forms Processing
- Postal Documents Processing
- Bank Check Processing
- Historical Manuscript Processing
- Style Verification and Identification
- Document Layout Analysis and Understanding
- Document Characterization
- Handwritten Databases Developments
- Script Identification
- Writer Verification and Identification
- Signature Verification for Biometrics
- Handwriting as a Biometrics
- Quality Enhancement and Degraded Document Analysis
- Online Handwritten Document Processing
- Deep Learning
- Extreme Learning Machine
- Other Related Applications of Machine Learning Techniques

Submission Procedure
Researchers and practitioners are invited to submit papers for this special theme issue on Handwritten Document Processing using Machine Learning on or before 31st August, 2017. Manuscripts are managed professionally through Thomson Reuters’ Scholar One Manuscripts submission system. Papers can be submitted online at: http://mc.manuscriptcentral.com/jisys. All submissions must be original and should not be under review by another publication. Papers that extend conference contributions must include at least 50% new material. Interested authors may consult the detail journal guidelines at www.degruyter.com/jisys. All submitted papers will be peer reviewed and upon acceptance will be available to the scientific community through online access.

All submissions and inquiries should be directed to the attention of:

Sk Md Obaidullah, sk.obaidullah@gmail.com
K. C. Santosh, santosh.kc@usd.edu
Nibaran Das, nibaran@gmail.com
Kaushik Roy, kaushik.mrg@gmail.com
Guest Editor