

Issue Title: Deep Learning Algorithms for Internet of Things Data Analysis

Special Issue Description: The Internet of Things (IoT) has drastically increased the number of devices connected to the Internet ranging from sensors and smart phones to increasingly soft data or information sources such as crowd sensing or users as sensors. IoT devices such as wearable medical devices, smart traffic control devices, and various IoT sensors are continuously generated a massive amount of data. Availability of data generated by these diverse data sources as opened new opportunities for innovative applications across different domains such as intelligent transportation systems, smart buildings and, in general, decision making systems. Most IoT applications produce or rely on large data streams, which have to be analyzed in order to derive knowledge and insights and to make decisions. Data from different sensors in the IoT is generated in the form of data streams, which often form complex patterns that must be interpreted with minimal latency in order to apply them for decision making in the context of a current situation. Hence, there is a need for scalable machine learning algorithms and statistical data analysis as well as sufficient amount of computational resources to process such massive amount of data streams. In recent years, a number of scalable machine learning algorithms are developed to process the massive IoT data. Machine learning methods exploit historical data and apply diverse approaches such as deep learning models and advanced Artificial Intelligence algorithms to train the models in order to make predictions about the future of dynamic systems.

The motivation of this special issue is to solicit innovative research work in the domain of IoT Analytics using machine learning, deep learning and advanced artificial intelligence. This issue will focus on the key aspects in the future applications of IoT Analytics which include IoT-Clouds, IoT based decision making technologies, IoT context-aware systems and integration of the IoT concepts into the different vertical application domains. This special issue will provide the opportunity for research communities across the world to share their ideas on these newly developing fields of IoT Analytics.

Issue Keywords: This special issue is targeted at the above issues related to Machine learning techniques for Internet-of-Things. Authors are invited to submit previously unpublished papers to this special issue. Topics include, but are not limited to:

- Decision Making Systems in IoT Applications
- Machine Learning Models for IoT
- Deep Learning Models for Time Series Data and IoT
- Multi-Task IoT System Modelling and Analysis
- Wearable medical devices for IoT

- Smart traffic control devices
- Hybrid Intelligent Models for IoT Context-Aware Systems
- Information Fusion in IoT
- Remote monitoring for IoT
- Biomedical and healthcare for IoT
- Prediction of Situational Awareness with IoT Data
- Swarm Intelligence and Big data for IoT
- Cloud-Assisted Data Fusion and Sensor Selection for Internet of Things
- Living Assistant for IoT
- Secure and Privacy Preserving Steam Analytics
- IoT Analytics for Improving the Dependability of IoT Systems

Issue Type: full length

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Guest Editor Details:

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Guest Editor Name: Dr Ashish Khanna, Dr Deepak Gupta

Guest Editor Affiliation: Associate Professor
Computer Science Engineering
Maharaja Agrasen Institute of Technology,

GGSIPIU
Delhi, India-110089
ashishkhanna@mait.ac.in

Dr. Deepak Gupta
Assistant Professor
Department of Computer Science and Engineering
Maharaja Agrasen institute of Technology
Sector-22, Rohini, Delhi 110086, India
Email: myself.deepakgupta@gmail.com, deepakgupta@mait.ac.in

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<https://drashishkhanna.jimdo.com/paper-publications/>

Dr Deepak Gupta Publications
<https://sites.google.com/view/drdeepakgupta/publication?authuser=0>

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Articles of Special Issue: (Tentative list of contributors)

Utku Kose
Suleyman Demirel University, Turkey
Email: utkukose@sdu.edu.tr

Andino Maselena
STMIK Pringsewu, Lampung
Indonesia
Email: andimaselena@gmail.com

David Camacho
Universidad Autónoma de Madrid, Spain
Email: david.camacho@uam.es

Ahmed M. Anter,
Faculty of Computers and Information,
Beni-suef University, Benisuef, Egypt
Email: ahmed_anter@bsu.edu.eg

Deepak Kumar Jain
College of Automation,
Chongqing University of Posts and Telecommunications,
Chongqing, China
Email: deepak@cqupt.edu.cn

Hamid Reza Boveiri
Department of Computer Science and Engineering
Sama College, IAU, Shoushtar Branch
Khuzestan, Iran
Email: boveiri@samashoushtar.ac.ir

Jafar Alzubi
Al-Balqa applied University, Jordan
E.mail: j.zubi@bau.edu.jo

Ashiq Anjum
University of Derby, Bristol, UK
Email: a.anjum@derby.ac.uk

Mischa Dohler
King's College London, UK
Email: mischa.dohler@kcl.ac.uk

Sheng-Lung Peng
National Dong Swa University, Taiwan
Email: slpeng@mail.ndhu.edu.tw

Bozidar Klicek
University of Zagreb, Croatia
Email: bklicek@foi.hr

Dr. Daniela Lopez De Luise
CI2S Lab, Argentina
Email: daniela_ldl@ieee.org

Pedro Pedrosa Reboucas Filho
University of Fortaleza, Brazil
Email: pedrosarf@ifce.edu.br

Kirti Seth
Inha University, Tashkent
Email: kirti.twins@gmail.com

Sarada Prasad Gochhayat
Manipal University, Jaipur, India
Email: sarada1987@gmail.com

Aditya Khamparia
Lovely Professional University, Punjab, India
Email: aditya.khamparia88@gmail.com

Anil Kumar Ahlawat
Dean (A), KIET Group of Institutes, Ghaziabad, India
Email: anil.ahlawat@kiet.edu

Arun Sharma
HoD (IT),
Indira Gandhi Delhi Technical University for Women (IGDTUW)
Email: arunsharma@igdtuw.ac.in

Achal Kaushik
Bhagwan Parshuram Institute of Technology, Delhi, India
Email: achalkaushik@gmail.com

Ankur Saxena
Amity University, Noida
Email: achaurasia@amity.edu

Gulshan Shrivastava
National Institute of Technology Patna,
India
Email: gulshan.shrivastava@ieee.org

Kavita Sharma,
National Institute of Technology, Kurukshetra, India
Email: kavitasharma_06@yahoo.co.in

Arunkumar N
Sastra University, India
Email: arun.nura@gmail.com

Vikas Chaudhary
HoD (CSE),
JIMS Greater Noida,
Email: hodcse.gn@jagannath.org

Poonam Tanwar
Manav Rachna International University, Faridabad.
Email: poonam.tanwar@rediffmail.com

R. Manikandan
Sastra University, Thanjavur, India
Email: srmanimt75@gmail.com

Venkatadri MARRIBOYINA
Amity University, Gwalior, India
Email: venkatadri.mr@gmail.com

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Contact Details:

=====

Title: Dr.

First Name: Ashish

Last Name: Khanna

Address: MAIT GGSIPU Delhi
Delhi

Email: ashishkhanna@mait.ac.in

City: Delhi

State: Not Applicable

Zip Code: 110085

Country: India