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- ▶ IEEE Xplore——您身边的顶尖科技资源库
- ▶ 追踪前沿技术热点，把握领域发展态势
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IEEE

The **I**nstitute of **E**lectrical and **E**lectronics **E**ngineers

电气电子工程师学会

IEEE的成立

1884



AIEE
American Institute
of Electrical Engineers
美国电气工程师学会

1912



IRE
Institute of Radio
Engineers
无线电工程师学会

1963

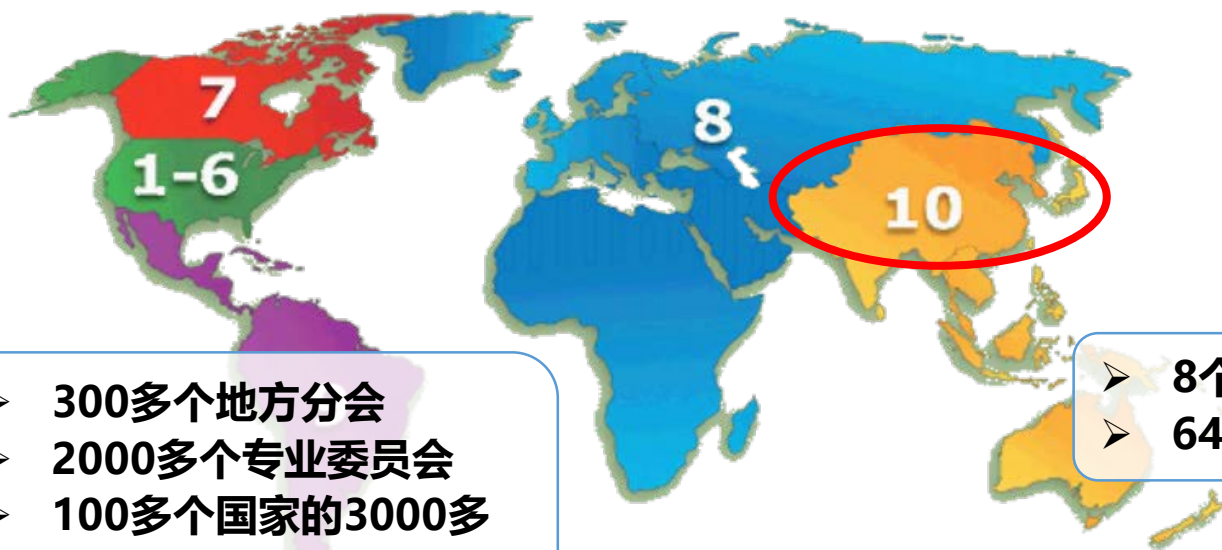


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The Institute of Electrical and
Electronics Engineers
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Present

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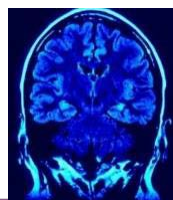
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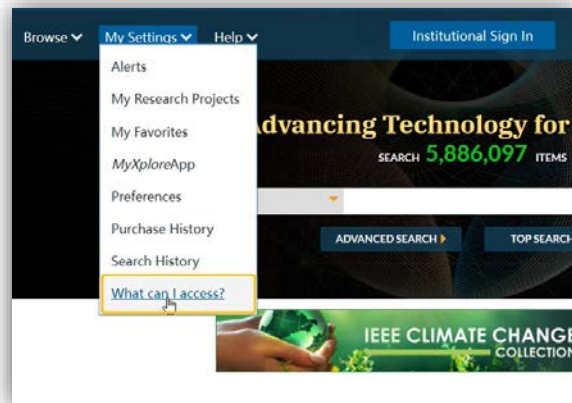
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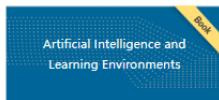
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Ting Li; Xuemei Zou
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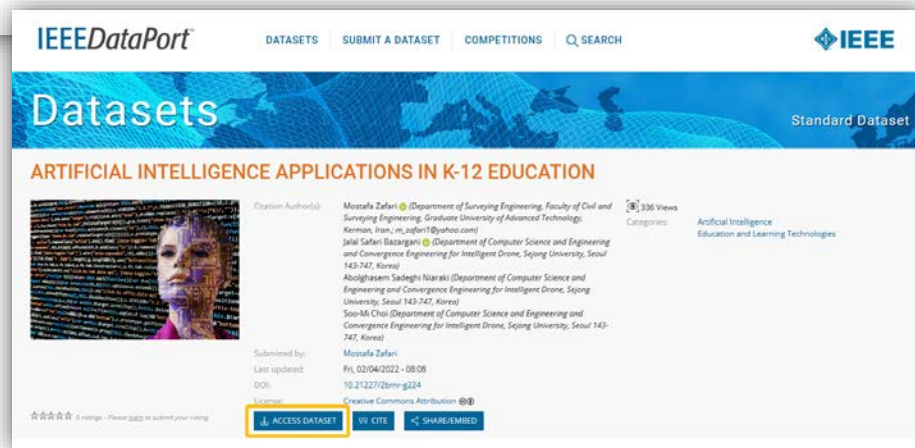
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Dew Intelligence: Federated learning perspective

Emanuel Guberović; Tomislav Lipić; Igor Čavrak

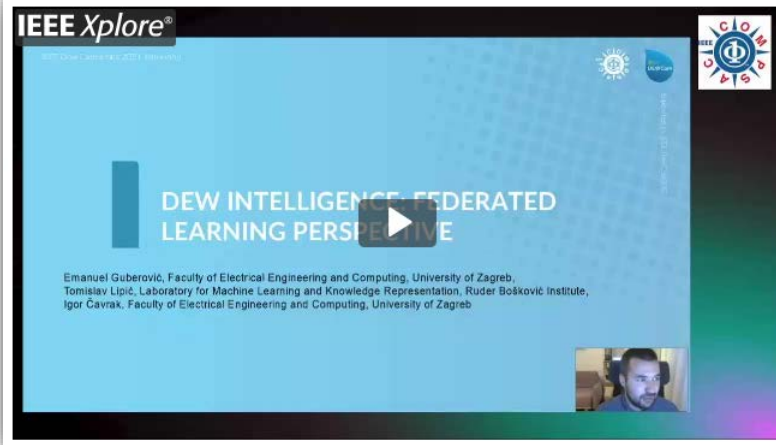
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Flow-Based Reinforcement Learning

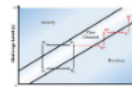
Dilini Samarasinghe; Michael Barlow; Erandi Lakshika

IEEE Access

Year: 2022 | Volume: 10 | Journal Article | Publisher: IEEE

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Code: Other Flow-based Reinforcement Learning

Flow-based Reinforcement Learning (Dilini Samarasinghe, Michael Barlow & Erandi Lakshika...)

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Computer Science

Flow-based Reinforcement Learning

Dilini Samarasinghe, Michael Barlow, Erandi Lakshika

A novel Flow-based Reinforcement Learning algorithm inspired by the psychological notion of Flow that describes the optimal mental state experienced by an individual when they are fully immersed in a task and find it intrinsically rewarding to engage with. The algorithm describes the Flow experience such that agents can be trained through finer distinctions to the challenges across training time to maintain them in the Flow zone.

The simulation environment is a maze navigation problem where the agent is expected to navigate through the available cells by finding a path avoiding the obstacles from the start position to the end position. The goal is to find the shortest path while avoiding the obstacles. The first challenge involves no obstacles, and the agent has the freedom to explore all cells and find a suitable path to reach the end position. At each challenge level increment, new obstacles are added by blocking free cells to make the task more complex. The agent can only travel to its Von Neumann neighbourhood (the four adjacent cells from the current position), and therefore, to ensure a

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Type-1 and Interval Type-2 Fuzzy Systems [AI- eXplained]

Dongrui Wu; Ruimin Peng; Jerry M. Mendel

IEEE Computational Intelligence Magazine

Year: 2023 | Volume: 18, Issue: 1 | Magazine Article | Publisher: IEEE

Abstract

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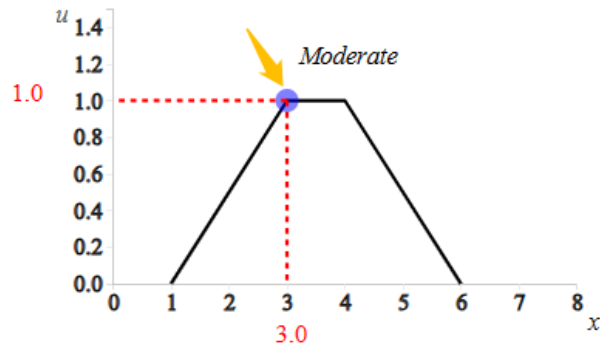


Figure 2: An example of a T1 fuzzy set.

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A Deep Learning Approach for Intrusion Detection Using Recurrent Neural Networks

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Abstract:

Intrusion detection plays an important role in ensuring information security, and the key technology is to accurately identify various attacks in the network. In this paper, we explore how to model an intrusion detection system based on deep learning, and we propose a deep learning approach for intrusion detection using recurrent neural networks (RNN-IDS). Moreover, we study the performance of the model in binary classification and multiclass classification, and the number of neurons and different learning rate impacts on the performance of the proposed model. We compare it with those of J48, artificial neural network, random forest, support vector machine, and other machine learning methods proposed by previous researchers on the benchmark data set. The experimental results show that RNN-IDS is very suitable for modeling a classification model with high accuracy and that its performance is superior to that of traditional machine learning classification methods in both binary and multiclass classification. The RNN-IDS model improves the accuracy of the intrusion detection and provides a new research method for intrusion detection.

Published in: IEEE Access (Volume: 5)

Page(s): 21954 - 21961

Date of Publication: 12 October 2017

Electronic ISSN: 2169-3536

INSPEC Accession Number: 17341438

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1. Y. LeCun, Y. Bengio and G. Hinton, "Deep learning", *Nature*, vol. 521, pp. 436-444, May 2015.
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2. J. Schmidhuber, "Deep learning in neural networks: An overview", *Neural Netw.*, vol. 61, pp. 85-117, Jan. 2015.
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3. L. Liu, L. Shao, X. Li and K. Lu, "Learning spatio-temporal representations for action recognition: A genetic programming approach", *IEEE Trans. Cybern.*, vol. 46, no. 1, pp. 158-170, Jan. 2016.
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4. A.-A. Liu, Y.-T. Su, W.-Z. Nie and M. Kankanalli, "Hierarchical clustering multi-task learning for joint human action grouping and recognition", *IEEE Trans. Pattern Anal. Mach. Intell.*, vol. 39, no. 1, pp. 102-114, Jan. 2017.
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5. J. Wu, Y. Zhang and W. Lin, "Good practices for learning to recognize actions using FV and VLAD", *IEEE Trans. Cybern.*, vol. 46, no. 12, pp. 2978-2990, Dec. 2016.
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1. Hongsheng Xu, Libo Sun, Ganglong Fan, Wanxing Li, Guofang Kuang, "A Hierarchical Intrusion Detection Model Combining Multiple Deep Learning Models With Attention Mechanism", *IEEE Access*, vol.11, pp.66212-66226, 2023.
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2. Jingyu Wang, Zhijie Yao, Xiaojun Jing, Junsheng Mu, "A Robust Text Information Hiding Model Based On Quick Response Code", *2023 International Wireless Communications and Mobile Computing (IWCMC)*, pp.1238-1243, 2023.
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3. Sourabh Patil, Vishal Bhatnagar, Shyla Singh, "Evaluation of Machine Learning Algorithms Performance In Comparison to Cloud Privacy Legislation", *2023 Third International Conference on Secure Cyber Computing and Communication (ICSCCC)*, pp.155-160, 2023.
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4. Malika Malik, Kamaljit Singh Saini, "Network Intrusion Detection System using Reinforcement learning", *2023 4th International Conference for Emerging Technology (INCENT)*, pp.1-4, 2023.
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Y. Xin; S.H. Xu; C. Ye; Z.Y. Ning; X.H. Lu; S.L. Xiang; W. Du; S. Huang; J. Chen; S.H. Cheng
The 30th International Conference on Plasma Science, 2003. ICOPS 2003. IEEE Conference Record - Abstracts.
Year: 2003 | Conference Paper | Publisher: IEEE

The research on the effect of hyperthermia on growth of A549 and H1299 lung cancer cells

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Biography

Gangxiang Shen (Senior Member, IEEE) received the B.E. degree from Zhejiang University, Hangzhou, China, in 1997, the M.Sc. degree from Nanyang Technological University, Singapore, in 1999, and the Ph.D. degree from the University of Alberta, Edmonton, AB, Canada, in 2006. He was also an Australian ARC Post-Doctoral Fellow with the University of Melbourne, Melbourne, VIC, Australia. He is currently the Dean and a Distinguished Professor with the School of Electronic and Information Engineering, Soochow University, Suzhou, China. Before he joined Soochow University, he was a Lead Engineer with Ciena, Linthicum, MD, USA. He has authored and coauthored more than 200 peer-reviewed technical articles. His research interests include spectrum effi... [Show More](#)

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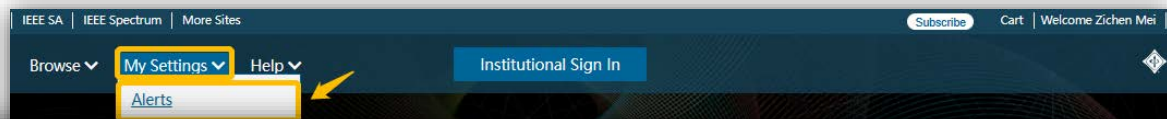
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A Deep Learning Approach for Intrusion Detection Using Recurrent Neural Networks

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Chuanlong Yin; Yuefei Zhu; Jinlong Fei; Xinzheng He [All Authors](#)

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Abstract: Intrusion detection plays an important role in ensuring information security, and the key technology is to accurately identify various attacks in the network. In this paper, we explore how to model an intrusion detection system based on deep learning, and we propose a deep learning approach for intrusion detection using recurrent neural networks (RNN-IDS). Moreover, we study the performance of the model in binary classification and multiclass classification, and the number of neurons and different learning rate impacts on the performance of the proposed model. We compare it with those of J48, artificial neural network, random forest, support vector machine, and other machine learning methods proposed by previous researchers on the benchmark data set. The experimental results show that RNN-IDS is very suitable for modeling a classification model with high accuracy and that its performance is superior to that of traditional machine learning classification methods in both binary and multiclass classification. The RNN-IDS model improves the accuracy of the intrusion detection and provides a new research method for intrusion detection.

Published in: IEEE Access (Volume: 5)

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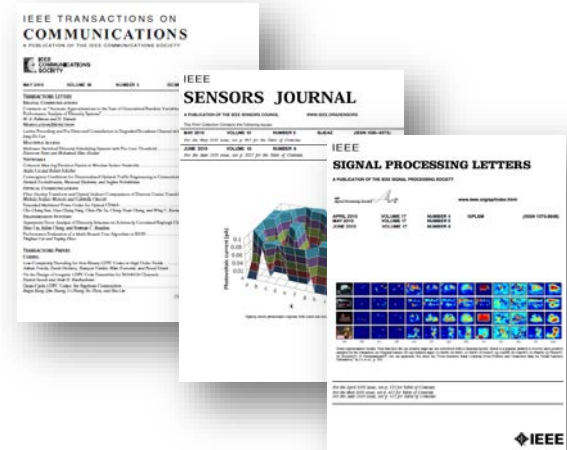
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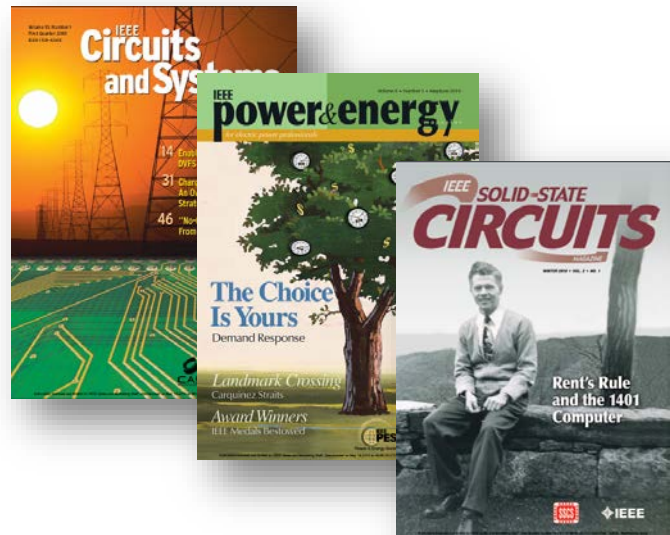
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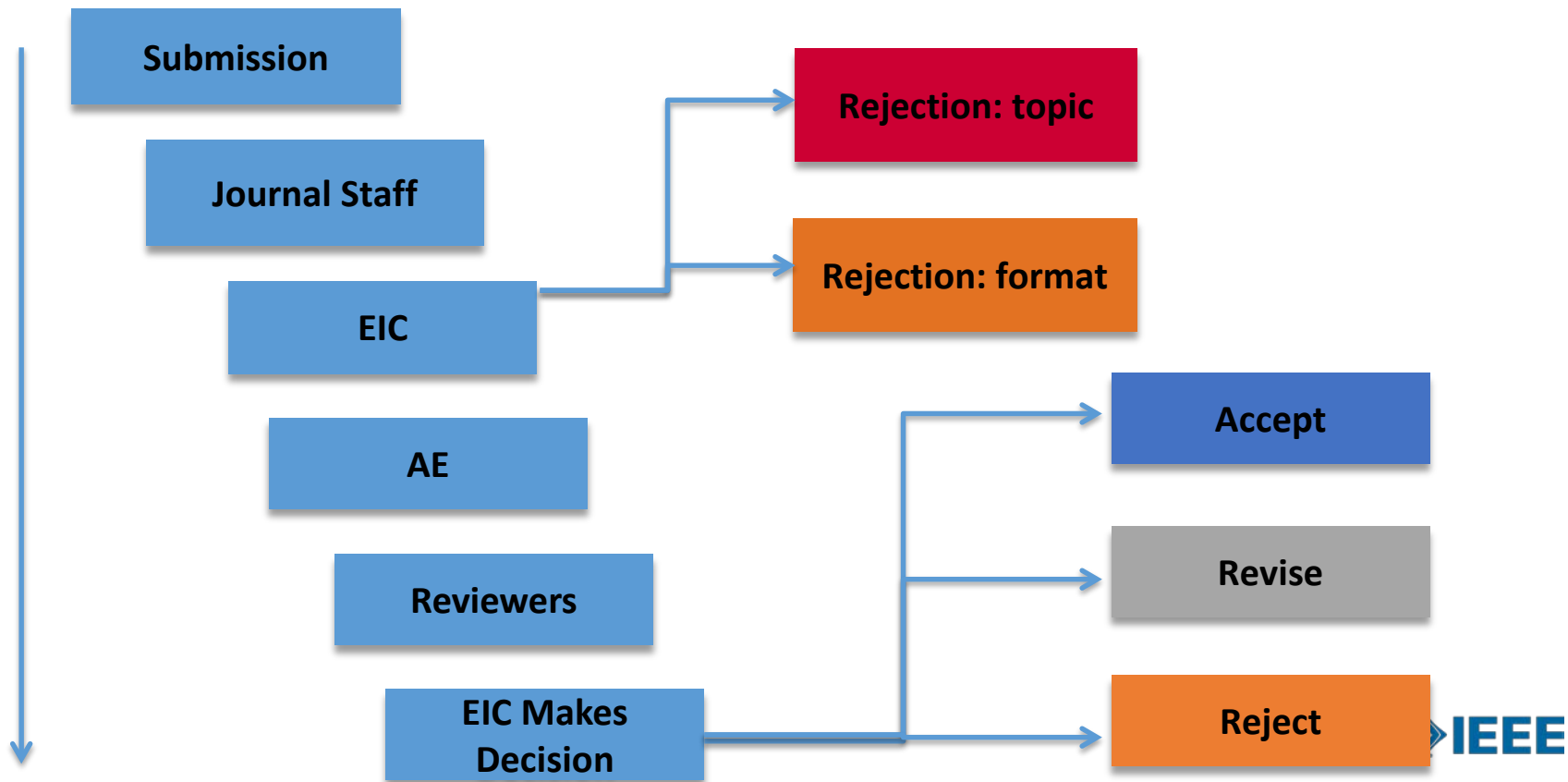
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