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沈阳工业大学

演讲人：iGroup中国 IEEE产品培训师 陈杨



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- ▶ 多种方法助力高效检索科研文献
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- ▶ 善用IEEE衔接学业与职业发展

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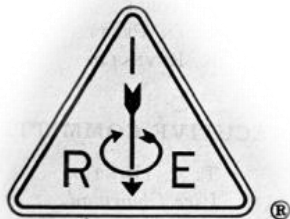
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1963



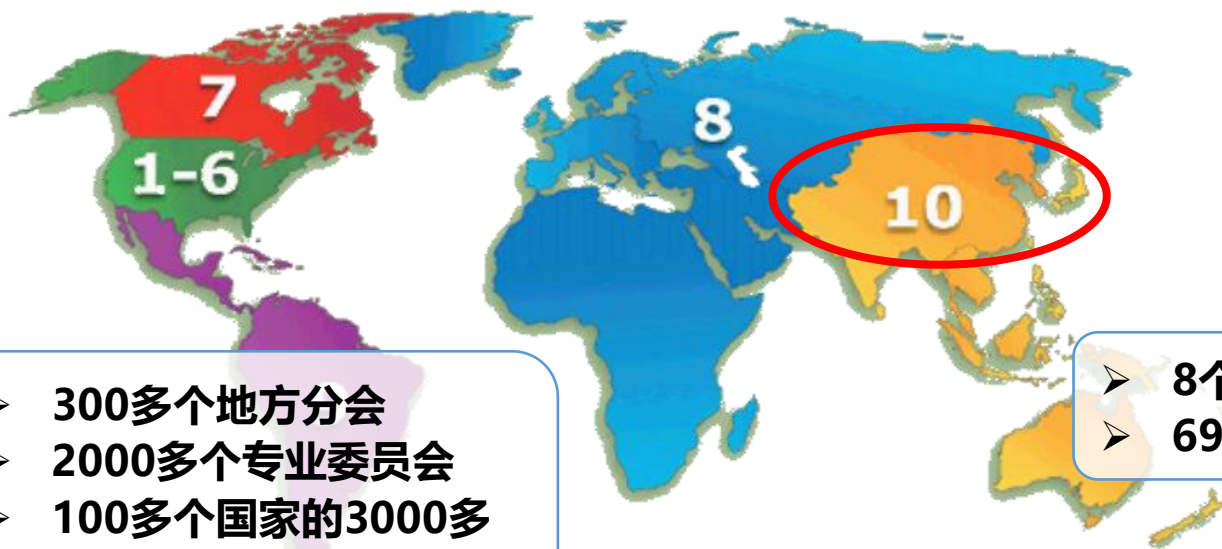
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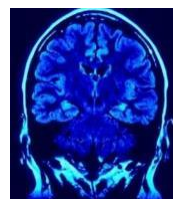
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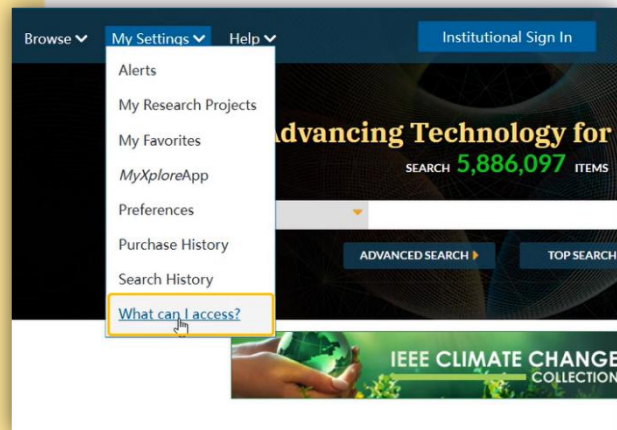
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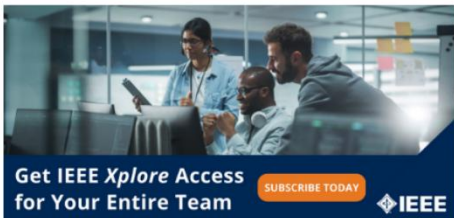
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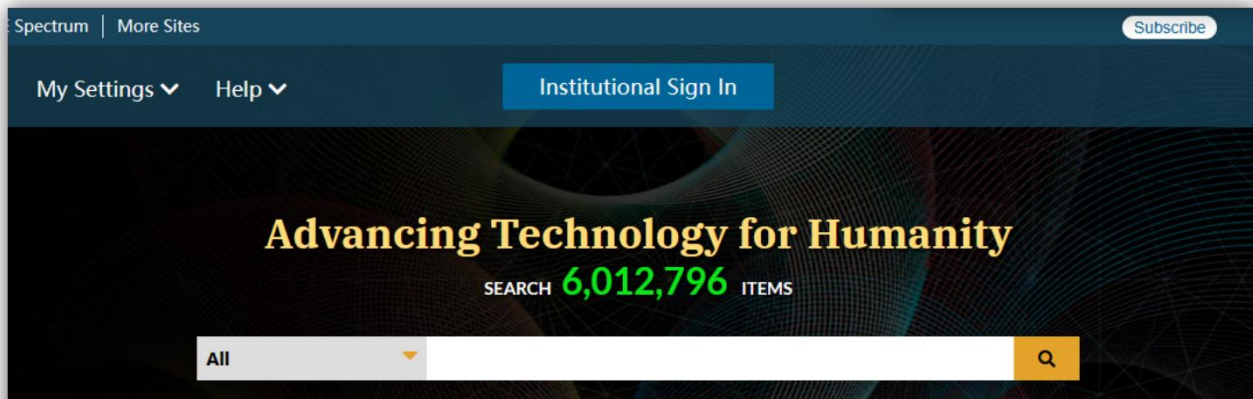
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2022 International Symposium on Educational Technology (ISET)
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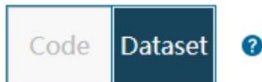
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Code & Datasets



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Dew Intelligence: Federated learning perspective

Emanuel Guberović; Tomislav Lipić; Igor Čavrak

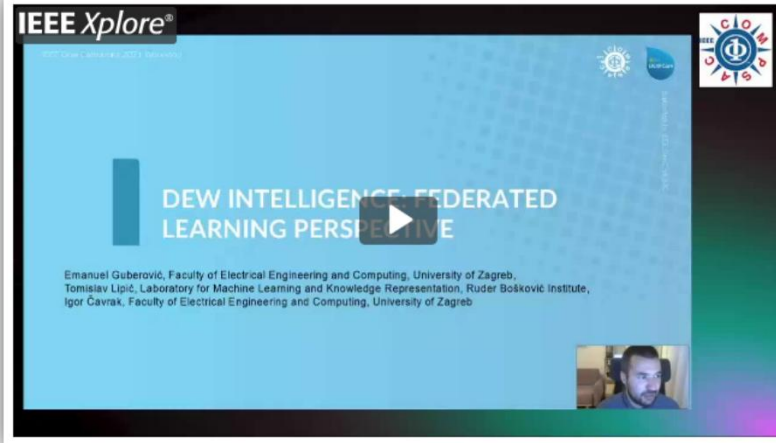
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Flow-Based Reinforcement Learning

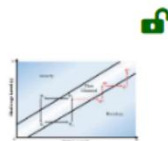
Dilini Samarasinghe; Michael Barlow; Erandi Lakshika

IEEE Access

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

Abstract

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Code: Other Flow-based Reinforcement Learning

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

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Metadata

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

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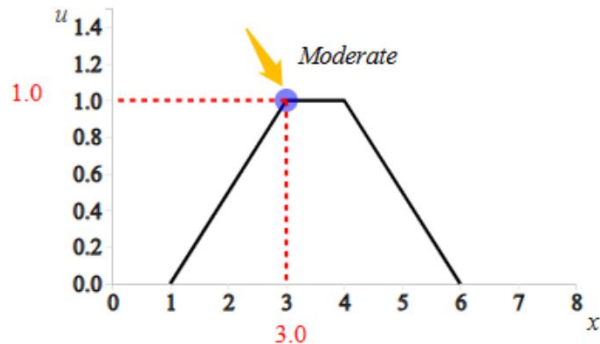


Figure 2: An example of a T1 fuzzy set.

文摘页面

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)

Page(s): 21954 - 21961 **INSPEC Accession Number:** 17341438

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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. Kankanhalli, "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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- 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 (IN CET)*, pp.1-4, 2023.
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Biography

Zheng Li (Member, IEEE) was born in Shijiazhuang, Hebei, China, in 1980. He received the B.Sc. and Ph.D. degrees in electrical engineering and power electronics and electric drive from the Hefei University of Technology, Hefei, China, in 2002 and 2007, respectively. He is currently the Professor with Hebei University of Science and Technology, Shijiazhuang, China. His current research interests include design, analysis, and control of novel motors and actuators, intelligent control, and power electronics. (Based on document published on 11 April 2023).

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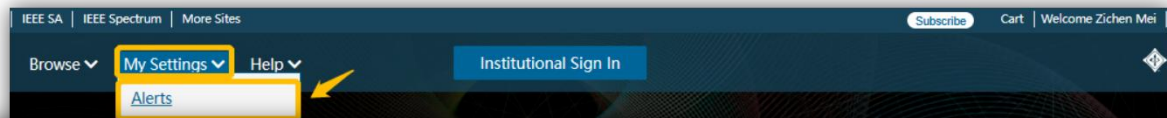
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A Deep Learning Approach for Intrusion Detection Using Recurrent Neural Networks

Publisher: IEEE [Cite This](#) [PDF](#)

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)

Page(s): 21954 - 21961

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Electronic ISSN: 2169-3536

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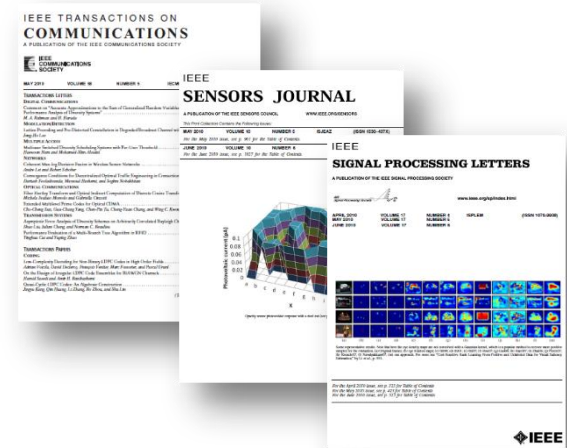
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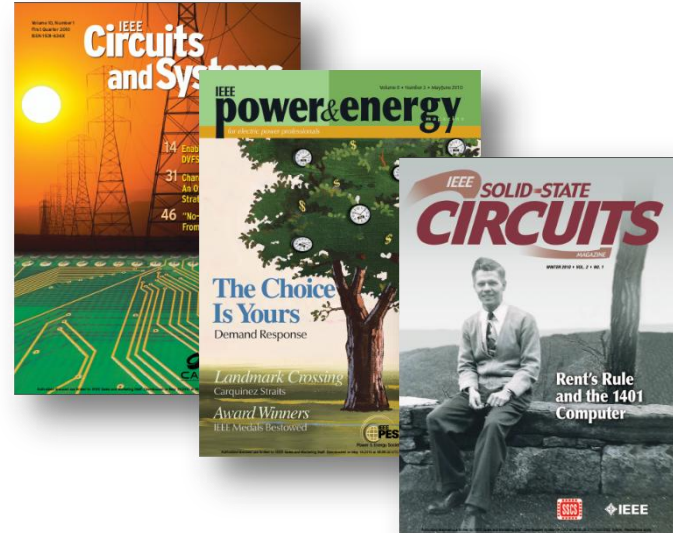
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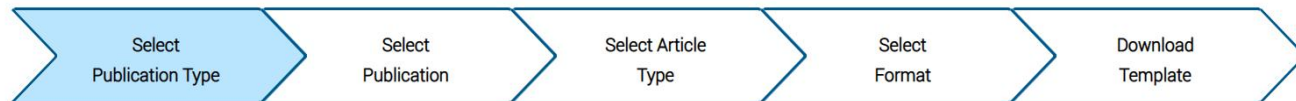
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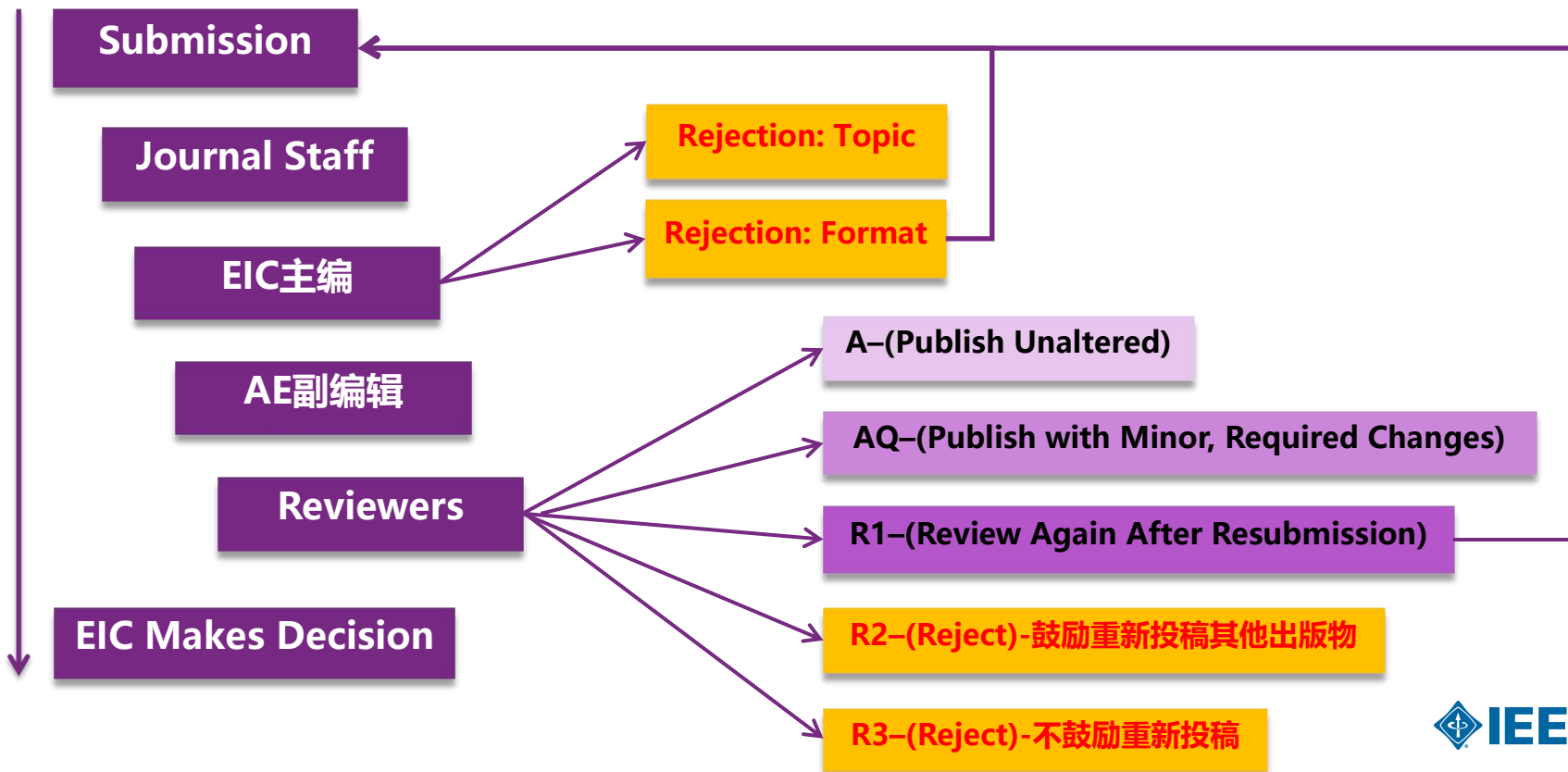
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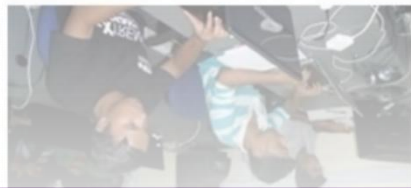
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Tenure-track/Tenured Faculty Positions in the Department of Biomedical Engineering

Southern University of Science and Technology (SUSTech) | Shenzhen, Guangdong, China

30+ days ago

APPLY NOW

Description

The Department of Biomedical Engineering, Southern University of Science and Technology (SUSTech), seeks outstanding applicants for full-time tenure-track/tenured faculty positions. Positions are available for both junior and senior-level applicants. Exceptional candidates in any areas are welcome to apply. Our current areas of focus are in mechanomedicine, biomedical/medical imaging, bioMEMS, regenerative medicine, wearable device/wireless monitoring, and biomedical data science. We seek faculty members who can contribute to the excellence and diversity of our academic community. A globally competitive start-up package will be provided to successful candidates. Applicants must possess a Ph.D. degree in biomedical engineering or relevant fields, demonstrated excellent research contributions, and teaching ability.

All applicants should submit the following documents to bmehr@sustech.edu.cn in a single (merged) PDF document: (1) Curriculum Vitae, (2) a Statement of Research and Teaching Interests, (3) up to three representative publications, and (4) 3 letters of recommendation with contact information.

SUSTech is a research university that ranks 9th in mainland China (Times Higher Education World University Ranking 2020). Established in 2012, SUSTech is a public institution funded by the City of Shenzhen. SUSTech is the first academic institution resulting from the national Chinese Higher Educational Reform. The University's mission is to become a global institution that is recognized for its academic excellence, innovation, and entrepreneurship. The University promotes bilingual education, with lectures and academic seminars conducted in both English and Mandarin. SUSTech is determined to cultivate a place where global talents could share their ideas and develop their skills to better contribute to the local and global society. The city of Shenzhen is a modern metropolis, with some of the world's largest technology giants based here. Shenzhen has been ranked the No. 1 most livable city in China (Chinese Cities Livability Development Index Report 2017), with world's top restaurants, efficient transportation, extensive green spaces, and excellent air quality.

Job Information

Job ID: 62445817

Location: Shenzhen, Guangdong, China

Company Name For Job: Southern University of Science and Technology (SUSTech)

Position Title: Tenure-track/Tenured Faculty Positions in the Department of Biomedical Engineering

Job Function: Biomedical Engineering



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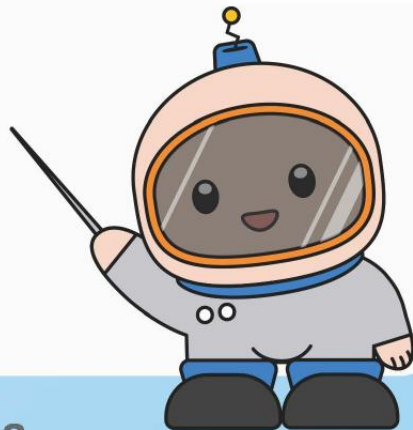
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主题	时间
一 (a) : IEEE Xplore助力高效科研, 洞察全球技术趋势	09.14 19:00-20:00
一 (b) : 巧用IEEE Xplore进阶检索技巧, 精确定位目标文献	09.21 19:00-20:00
二: IEEE学术资源分享, 获悉最新动态	10.12 19:00-20:00
三: IEEE步履不停: 领航开放科学之路	10.19 19:00-20:00
四: IEEE投稿攻略, 攻克投稿壁垒	10.26 19:00-20:00
五: IEEE科技论文发表锦囊	11.02 19:00-20:00
六: 善用IEEE衔接学业与职业发展	11.16 19:00-20:00
七: IEEE标准简介	11.23 19:00-20:00

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内容	时间
主题一 (a) : IEEE Xplore 助力高效科研, 洞察全球技术趋势	09月14日, 19:00-20:00
主题一 (b) : 巧用 IEEE Xplore 进阶检索技巧, 精确定位目标文献	09月21日, 19:00-20:00
主题二: IEEE 学术资源分享, 获悉最新动态	10月12日, 19:00-20:00
主题三: IEEE 步履不停: 领航开放科学之路	10月19日, 19:00-20:00
主题四: IEEE 投稿攻略, 攻克投稿壁垒	10月26日, 19:00-20:00
主题五: IEEE 科技论文发表锦囊	11月2日, 19:00-20:00
主题六: 善用 IEEE 衔接学业与职业发展	11月16日, 19:00-20:00
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