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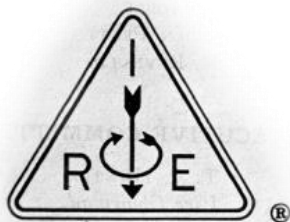
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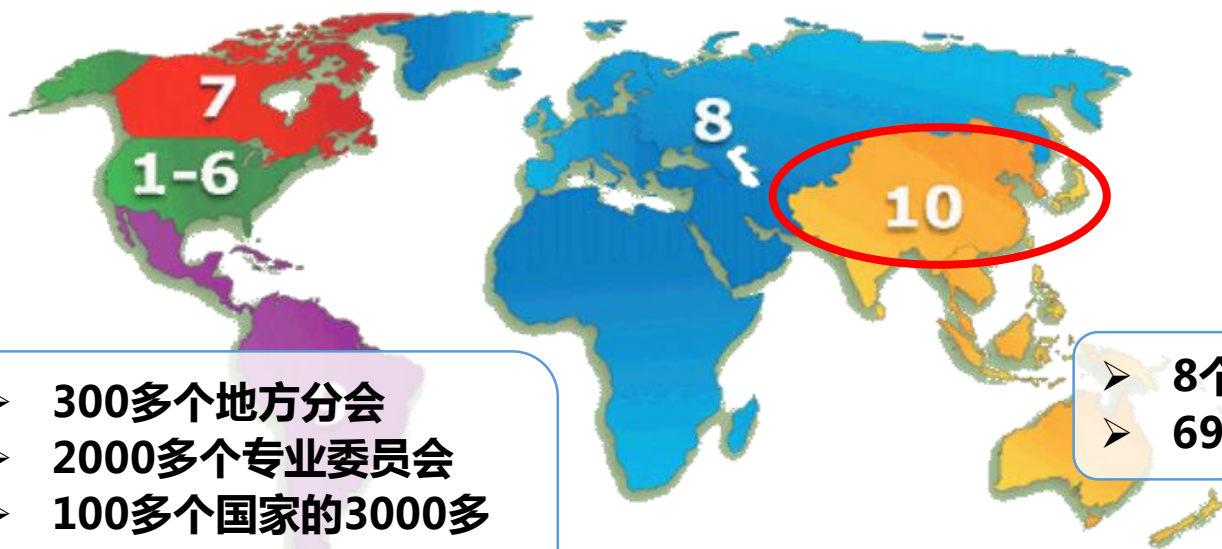
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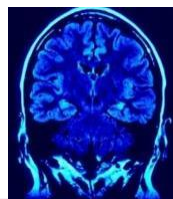
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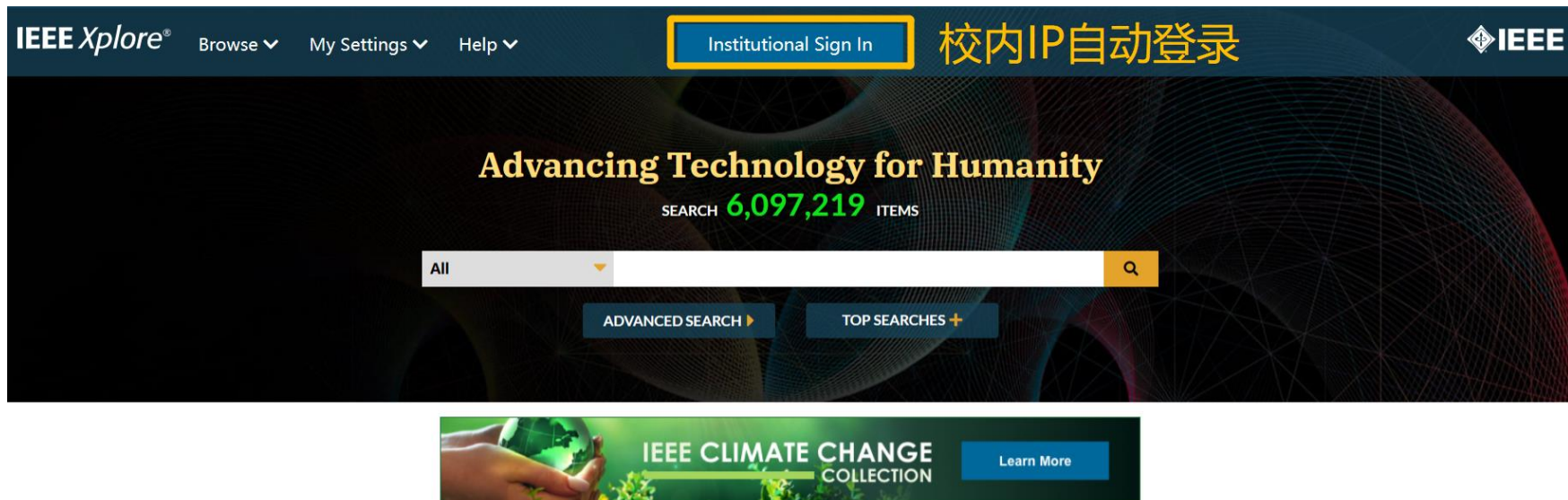
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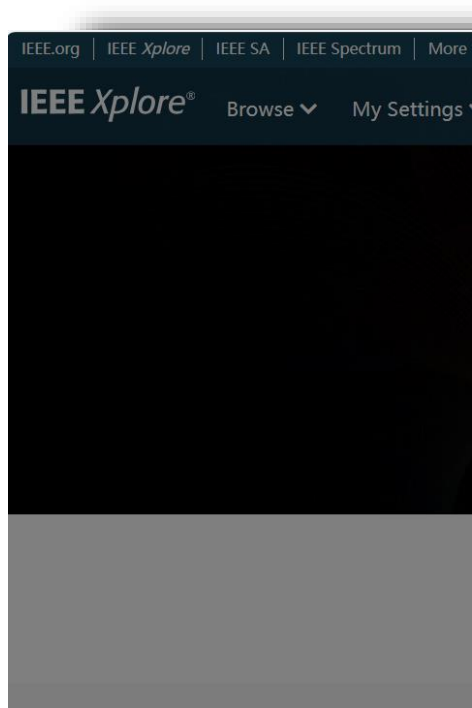
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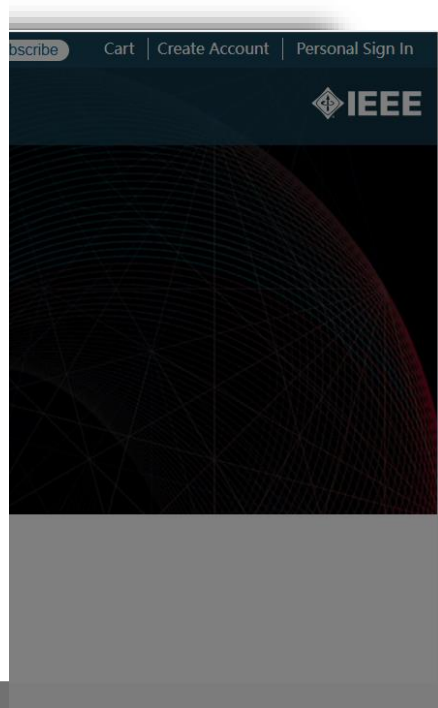
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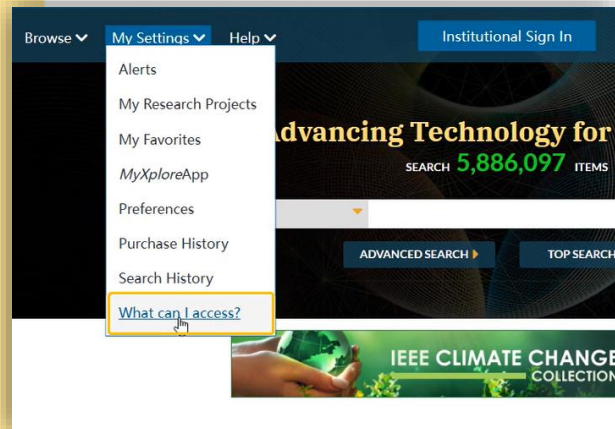


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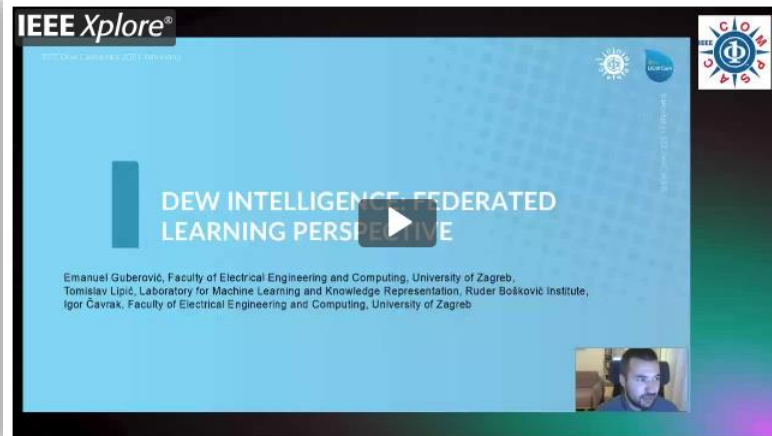
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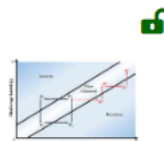
Dilini Samarasinghe; Michael Barlow; Erandi Lakshika

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

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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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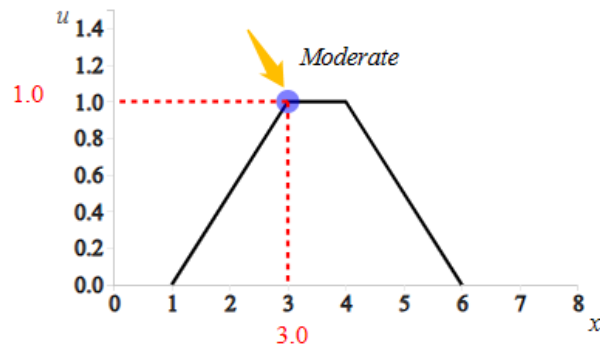


Figure 2: An example of a T1 fuzzy set.

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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.

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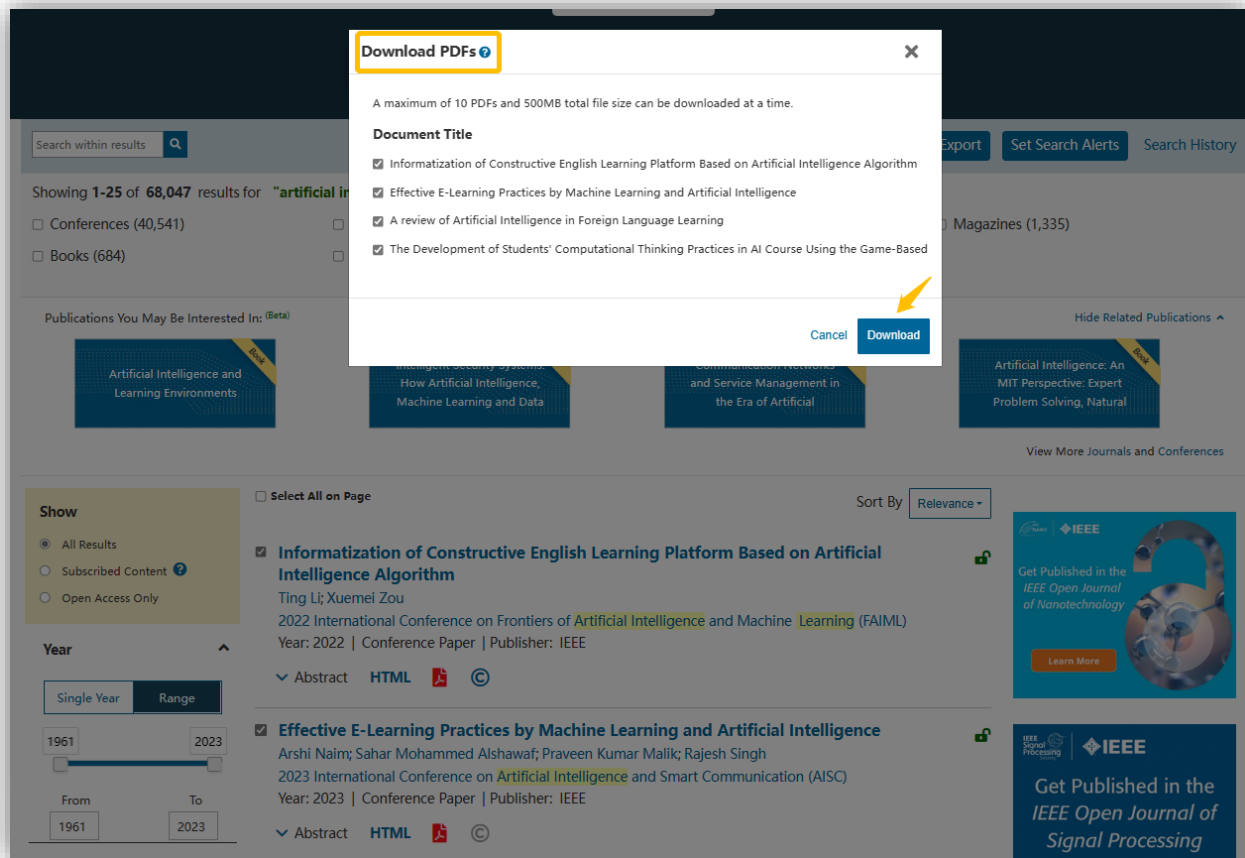
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Wenbin Li received the B.E. degree from Northeast Forestry University, Harbin, China, the M.S. degree from Shizuoka University, Shizuoka, Japan, and the Ph.D. degree from Ehime University, Ehime, Japan. He is currently a Professor with Beijing Forestry University, Beijing, China. He has published 205 academic articles. His research interests include forestry machinery, ergonomics, and forest environmental information monitoring technology. (Based on document published on 29 January 2021).

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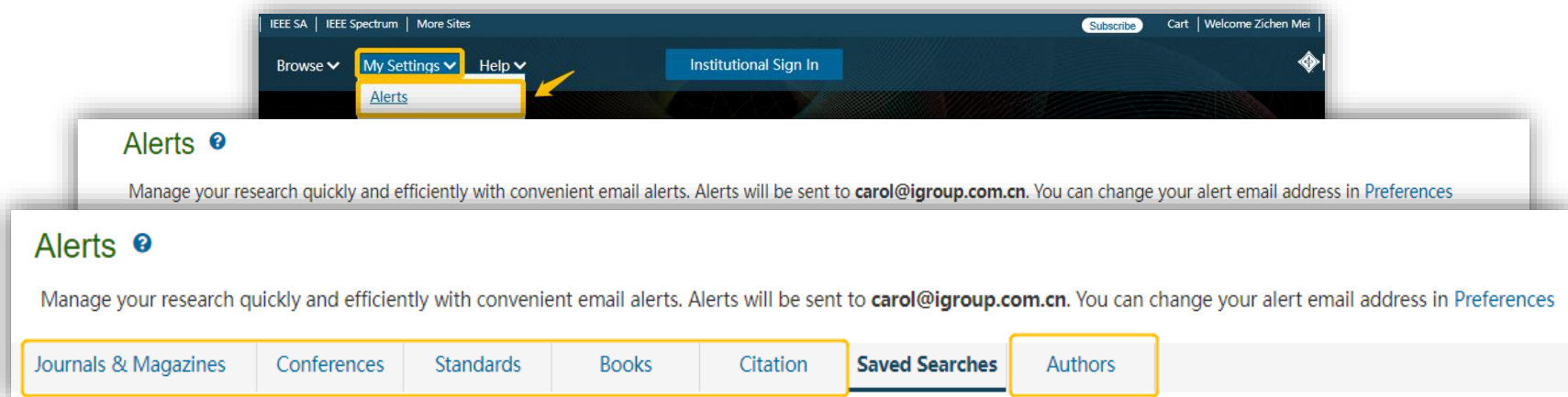


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A Deep Learning Approach for Intrusion Detection Using Recurrent Neural Networks

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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DOI: 10.1109/ACCESS.2017.2762418

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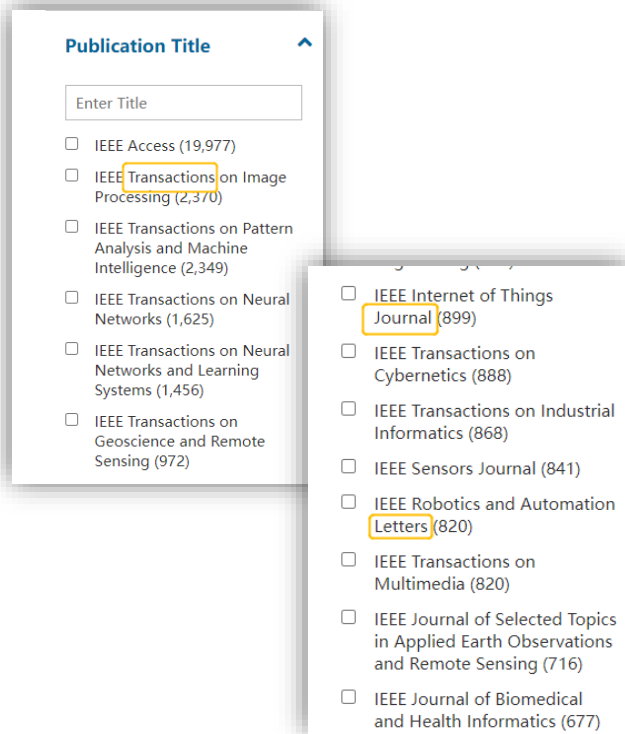
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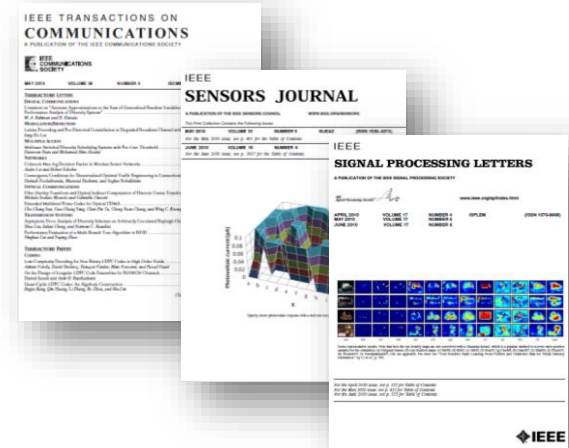
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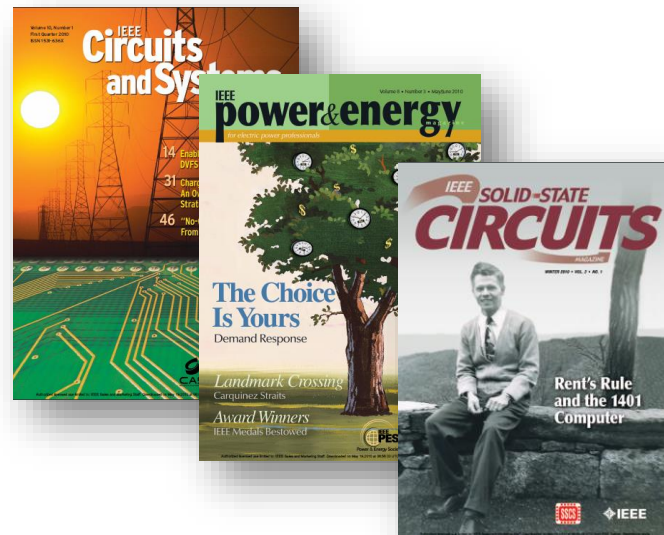
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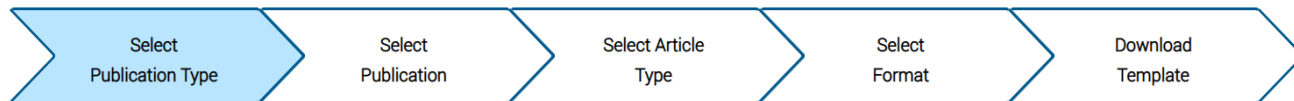
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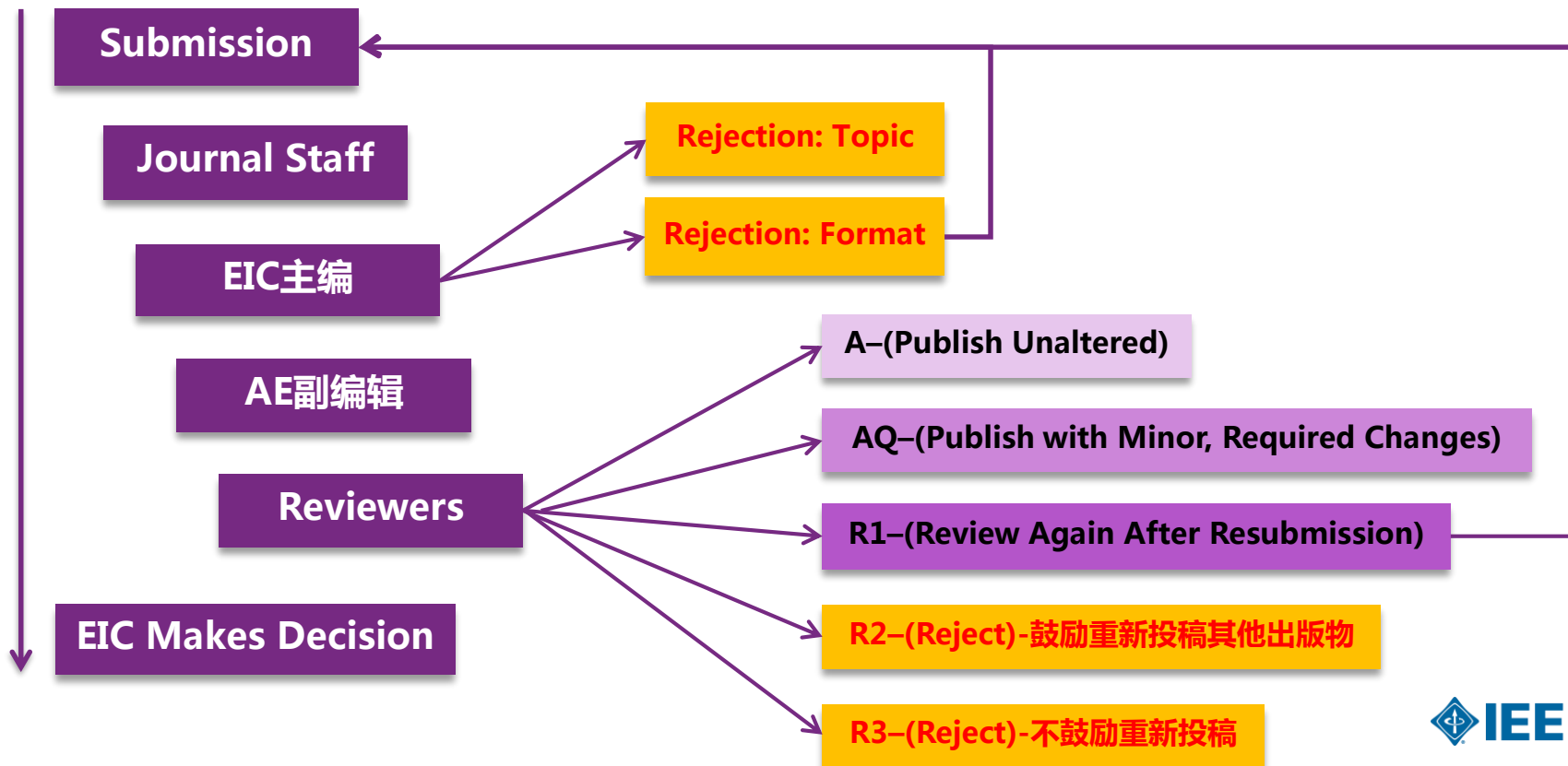
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More information: https://cn.ieee.org/china_student/

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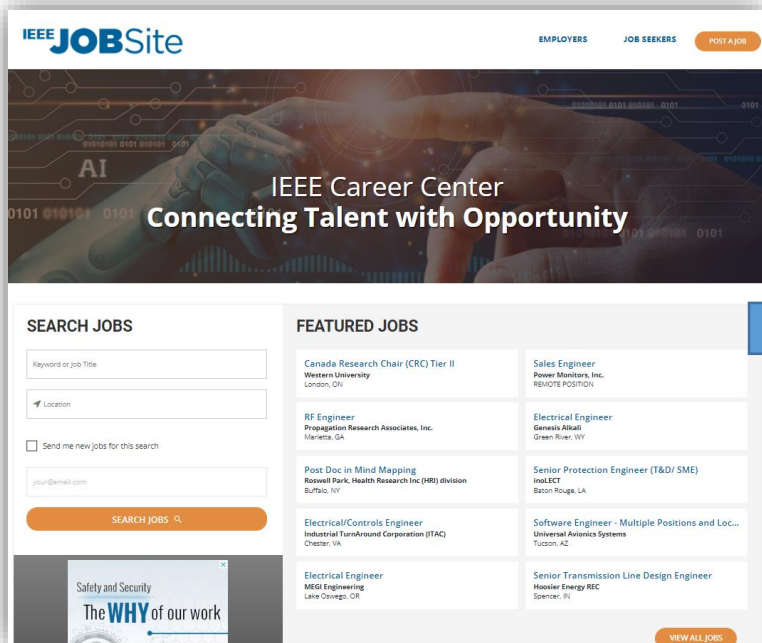
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The screenshot shows the IEEE Career Center homepage. At the top, there's a navigation bar with 'IEEE JOB Site' logo, 'EMPLOYERS', 'JOB SEEKERS', and a 'POST A JOB' button. Below the navigation bar is a large banner with the text 'IEEE Career Center Connecting Talent with Opportunity' and a background image of hands holding a glowing sphere. To the left of the banner is a 'SEARCH JOBS' section with a search bar, a location dropdown, and a checkbox for 'Send me new jobs for this search'. Below the search bar is a 'FEATURED JOBS' section with a grid of job listings. At the bottom left, there's a small box with the text 'Safety and Security The WHY of our work'. At the bottom right, there's a 'VIEW ALL JOBS' button.

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SEARCH JOBS

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Electrical/Controls Engineer Industrial Turnaround Corporation (ITAC) Chester, VA	Software Engineer - Multiple Positions and Loc... Universal Avionics Systems Tucson, AZ
Electrical Engineer MED Engineering Lake Oswego, OR	Senior Transmission Line Design Engineer Husker Energy REC Spencer, IN

VIEW ALL JOBS



The screenshot shows a job listing for 'Tenure-track/Tenured Faculty Positions in the Department of Biomedical Engineering' at Southern University of Science and Technology (SUSTech). The listing includes a description of the department, the job information (Job ID: 62445817), location (Shenzhen, Guangdong, China), company name (Southern University of Science and Technology (SUSTech)), position title (Tenure-track/Tenured Faculty Positions in the Department of Biomedical Engineering), and job function (Biomedical Engineering). A blue arrow points from the 'SEARCH JOBS' section of the previous screenshot to this job listing.

Filters

Search Only Position Title

Preferred

Job Function

State

Country

- ☐ Cayman Islands
- ☐ Central Africa Rep.
- ☐ Chad
- ☐ Chile
- ☒ China
- ☐ Colombia

Job Title

Location

200 mi/320 km

SEARCH

Filter

Filters (1)

Country: China

Show All

Clear All

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 devices/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 bmeh@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 Per 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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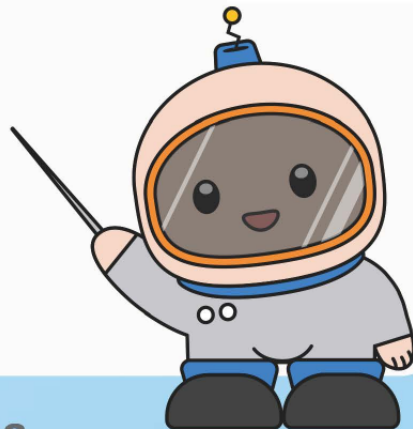
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三等奖 (20名): B 站年度大会员

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IEEE Xplore MOOC 2023 秋季课程

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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IEEE China

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
主题七: IEEE 标准简介	11 月 23 日, 19:00-20:00



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