

ソフトコンピューティング集積システム 研究室 1

1) 当該研究室の研究成果について

(*) Excellent () Very Good () Good () Fair () Poor
特になし

2) 当該研究室構成員の学会活動について

(*) Excellent () Very Good () Good () Fair () Poor
特になし

3) 当該研究室構成員の社会貢献について

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4) 当該研究室の競争的資金の獲得状況について

(*) Excellent () Very Good () Good () Fair () Poor
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5) 国際共同研究・連携研究・連携教育活動の実績について

(*) Excellent () Very Good () Good () Fair () Poor
特になし

6) 共同利用・共同研究拠点活動の実績について

(*) Excellent () Very Good () Good () Fair () Poor
特になし

7) その他、総合的なコメント

ご提案されているブレインモルフィックシステムなどを含む新しい技術・概念は、過去の技術の焼き直しではない現在の人工知能などは、遥かに及ばない概念と新技術であると考えられます。今後の神経科学分野との融合なども含めて、理論的にも実験的にもさらなる発展が期待されるものであると受け止めました。

ソフトコンピューティング集積システム研究室 2

1) 当該研究室の研究成果について

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7) その他、総合的なコメント

設立3年目であり、環境構築期であるといえ、これからの期待できる。

ソフトコンピューティング集積システム研究室 3

1. How would you evaluate the research activities in this period?

Excellent Very Good Good Fair Poor

The lab has made contributions in both nanoscale devices used in neuromorphic computing and in chaotic circuits. I expect to see this research push boundaries in the future and make a bigger impact in the coming years.

2. How would you evaluate the activities of the members in the laboratory for the academic societies?

Excellent Very Good Good Fair Poor

Prof. Horio has been extremely dedicated and successful in both expanding the involvement of JNNS to the international arena. He has also served as the advisor for the NOLTA conference and has been able to negotiate the conference in Croatia in 2021. Overall the lab members have been effective in improving the involvement in international conferences and societies .

3. How would you evaluate the contribution of the laboratory to society?

Excellent Very Good Good Fair Poor

Edge AI hardware is becoming more important everyday and the technologies and research done by the lab will help make this a reality. I expect the lab to lead the research in bringing nanoscale devices to solving the edge AI/neuromorphic hardware problems in the coming years.

4. How would you evaluate the lab's level of funding?

Excellent Very Good Good Fair Poor

The lab has good funding but could benefit from an increase in funding levels to support the high impact research they are performing.

5. How would you evaluate the lab's collaborative research, including international joint research and collaborative education?

Excellent Very Good Good Fair Poor

The lab has been proactive in being engaged with the international society and engaging industry.

6. RIEC is one of Japan's "Joint usage/Research Center" or "Nation-wide Cooperative Research Projects" institutes. How would you evaluate the achievements of work done under this framework?

Excellent Very Good Good Fair Poor

The work on AI chip development is a cooperative project done in the lab with high impact.

7. Additional or overall comments

Overall the lab is doing really well. Though the funding levels are great, the lab's excellent and exceptional members can benefit from increased funding. I expect to see great results in the coming years.