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Nomination Application Form

PERSONAL DETAILS

Full Name	Hossein Banki-Koshki
Gender	Male
Designation	PhD Candidate in Biomedical Engineering
Department	Biomedical Engineering Department
Institution/Organization	Amirkabir University of Technology (AUT)
Qualification	- MSc in Biomedical Engineering, Biomedical Informatics, AUT, 2016-2018 - BSc in Biomedical Engineering (Bioelectrics), AUT, 2011-2015
Area of Specialization	Artificial Neural Networks
Sub Division	Cognitive Modeling, Chaotic Systems
DOB	January 26, 1993
DOJ	December, 2018
Total Experience	5
Mobile Number	+989104942918
Email	Hobako1993@gmail.com

About your Education, Experience and Academic achievements (200 words)

I am currently a PhD student in Bioelectrical Engineering at Amirkabir University of Technology (AUT), Tehran, Iran. My doctoral thesis is about “analyzing the behavior of neural networks from the perspective of chaos theory to model cognitive processes”. So far, one ISI article and two domestic papers have been published from the results of this research, and I will defend my doctoral thesis in the next two months. My research fields are artificial neural networks, cognitive modeling, and chaotic systems. I completed my master's degree in Biomedical information engineering at the faculty of biomedical engineering at AUT, and I also completed my bachelor's degree in bioelectric at the same faculty and university. I have entered master's and doctoral degrees with the talented student’s quota without any exam, and I have a TOEFL certificate in English.
Currently, I am working in the Iranian Ministry of Health, Food and Drug Organization, Medical Equipment Department as a designer of intelligent tracking and tracing systems.

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RESEARCH, INNOVATIONS AND EXTENSION

Question	Nos.	Question	Nos.
No. of Research Project Completed and On Going	3	Citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index	3
No. of Consultancy and Industries Sponsored Projects	0	No. of Books Published with ISBN (Text, Reference, Chapters and Conference Proceedings)	0
Total cost of the all Projects in USD/INR	0	No. of Patent Published and Under Process	0
No. of Journals Published in SCI and SCIE index	0	No. of Editorial Appointments in Journals/ Conferences (Editor, Reviewer and Member)	0
No. of Journals Published in Scopus, Web of Science and PubMed index	0	No of Countries Visited for research activities	0
No. of Journals Published in Other index	0	No. of Research scholar Graduated	2
No. of Conference Presentation	3	No. of Research scholar On Going	1
Cumulative impact factor of the last 3 years	0	No. Invited Speaker/ Resource person	0
H-index: Bibliometrics of the publications based on Scopus/ Web of Science.	1	No. of Research Conference/workshop Organized	0
Total number of Collaborative activities for research: (Joint publication/Project)	5	Total number of awards and recognition received	0
Number of functional MoUs with other universities/ industries/ corporate.	0	No. of Member of Professional Bodies:	1
Areas of Research	Artificial neural networks, Cognitive modeling, Chaotic Systems		

About your contribution towards the Research & Development, Innovations, and Extension Activities (200 words)

Research on mental disorders and cognitive phenomena of the brain has attracted the attention of researchers in recent years. Providing computational models for simulating mental disorders and cognitive phenomena is considered as one of the successful research approaches which has been proposed by neuroscientists and neuroengineers. I am currently working on the behavior of artificial neural networks from the perspective of chaos theory in order to model cognitive phenomena and diseases. Artificial neural networks, inspired by the biological structure and cognitive functions of the human brain, have been developed as one of the foundations of cognitive computational modeling. Analyzing the dynamics of complex interactions between the internal components of these networks using chaos theory opens new doors for understanding the unexplored aspects of mental disorders and cognitive phenomena.
In my current work, we present a novel model for Alzheimer's disease and attention deficit disorder (ADD) using artificial neural networks and chaotic analysis of network components. We also introduce new models for cognitive phenomena including neuronal synchronization, synaptic synchronization, and synaptic plasticity. Brain trauma injuries are also simulated using artificial neural networks.

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PERSONAL/ RESEARCH PROOFS, CATEGORY OF AWARD AND DECLARATION

Google scholar link (Publication Proof)	https://scholar.google.com/citations?hl=en&user=UnlZLlwAAAAJ	
Scopus link (Publication Proof)	https://www.scopus.com/authid/detail.uri?authorId=57196372315	
Linkedin link (Publication Proof)	http://www.linkedin.com/in/hossein-banki-koshki-792a30113	
Researchgate link (Publication Proof)	https://www.researchgate.net/profile/Hossein-Bankikoshki-2	
Institute ID Link/Upload/Number (Working Proof)	https://aut.ac.ir/ (sent via email)	
Certificate Links/Upload/Number (Education Proof of Last degree)	https://portal.aut.ac.ir/ (personal password required) (sent via email)	
Passport/ Govt. ID Links/Upload/ Number (Age Proof)	Passport Number: M65903264 (sent via email)	
Personal website link	-	
Tick the Suitable award category	□ Distinguished Scientist Award □ Young Scientist Award □ Life time achievement Award □ Outstanding scientist award □ Women Research Award □ ■ **Best Researcher Award** □ Best Innovation Award	□ Best Faculty Award □ Best Research Scholar Award □ Excellence in Innovation □ Excellence in Research □ Excellence Award (Any Scientific field) □ Best Research /Innovation Extension activity.

Self Declaration

I authenticate that to the best of my knowledge, the information given in this form is correct and complete. At any time I am found to have concealed any material information, my application shall be liable to be summarily terminated without notice. I have read the terms and conditions and other policies of the International Research Awards and agree to stand the same. I agree to Pencis to process the data submitted in this application form, or any other data that the Foundation may obtain from me for any purposes connected with Pencis for any other legitimate reason. The filled applications along with duly completed curriculum vitae, Pass port size photograph, Scan copy of the degree Certificate, Scan copy of the Working ID and related documents should be Upload in website/ sent via email to : contact@pencis.com

Date : 12/22/2023 **Place : Tehran, Iran** **Scanned Signature of Applicant**

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Decision	Reason	Signature of authorities	Date
Selected/Rejected			