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Personal Chair in Cognitive Computation;

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Divisional Director: PhD Programmes.

Lab website - <http://cogbid.cs.stir.ac.uk> (<http://cogbid.cs.stir.ac.uk>)

Founding Editor-in-Chief: Cognitive Computation (<http://springer.com/12559>) journal

(Springer Nature Neuroscience, USA: **NEW 2016 ISI Impact Factor (IF): 1.93**)

Big Data Analytics (<http://www.bdataanalytics.com/>) journal (Bio-Med Central / Springer Nature, UK)

Associate Editor: IEEE Transactions on Neural Networks

& Learning Systems (<http://cis.ieee.org/ieee-transactions-on-neural-networks-and-learning-systems.html>) (ISI IF: 4.3), IEEE Computational Intelligence Magazine

(<http://cis.ieee.org/ieee-computational-intelligence-magazine.html>) (ISI IF: 3.6)

IEEE Transactions on Systems Man and Cybernetics:

(<http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=6221021>) Systems (ISI IF: 1.6)

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Visiting Professor

Oxford (Computational Neuroscience Lab), MIT Media Lab (Synthetic Intelligence Lab),
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University (Saudi Arabia)

Senior Fellow: Brain Science Foundation (USA),

Fellow: UK HEA

Latest News

- 2016 SICSA Conference on Big Data Science Innovations
(<http://www.cs.stir.ac.uk/~mgo/SICSA2016/>): Prospects in Smart Cities, Media and Governance
(18 November 2016)
- **Founding Programme Director** of the UK's first, Professional/Industrial Doctorate in
Big Data Science, being launched at Stirling University, from 2017/18 – applications
opening soon – watch this space! (some fully/industry co-funded positions may be
available – email me for more details, including a copy of your CV!)

Journal Special Issues and Conferences

- 2018 Special Issue (SI) of IEEE Transactions on Systems Man and Cybernetics
(<http://www.ieeesmc.org/images/publications/smc-systems/2018-Special-Issue-Autonomous-Cognitive-Robotics-and-Systems.pdf>): Systems, on “Autonomous Cognitive Robotics and
Systems” (ISI-SCI Impact Factor (IF): 2.1) (Co-guest edited with Prof. Xuelong Li, Chinese
Academy of Sciences, & Prof. Kevin Gurney, Sheffield University - CFP available here :
Submission deadline: May 31, 2017, SI publication date: March 2018)
- Invited General co-Chair for 3rd IEEE International Conference on Smart Data (SmartData-
2017) Exeter, England, UK, 21-23 June 2017 (<http://cse.stfx.ca/~SmartData2017/>
(<http://cse.stfx.ca/~SmartData2017/>))
- 2017 Special Issue of IEEE Transactions on Affective Computing
(https://www.computer.org/cms/Computer.org/transactions/cfps/cfp_tacsi_arbsda.pdf) (ISI-
SCI Impact Factor (IF): 2.7) on: “Affective Reasoning for Big Social Data Analysis” (Co-guest
edited with Dr E. Cambria, NTU Singapore, and Dr A. Vinciarelli, University of Glasgow - CFP
available here, Submission deadline: Dec 1, 2016)

- 2016 July - Founding Chief-Editor for Big Data Analytics (<http://www.bdataanalytics.com>) (BDA) - an exciting new multi-disciplinary Open-Access journal by Springer /BioMed Central (BMC) (<http://www.bdataanalytics.com>) Journal now accepting submissions!!
- 2016 IEEE Symposium on Computational Intelligence in healthcare and e-health (IEEE CICARE 2016) (<http://www.cs.stir.ac.uk/events/CICARE2016/>) Chair
- The eighth International Conference on Brain Inspired Cognitive Systems (BICS 2016) (Co-chair with Cheng-Lin Liu (Institute of Automation, Chinese Academy of Sciences, China))(2015-16 ISI Impact factor: 1.93)

Press Release



University team developing lip-reading hearing aid (11 Jun 2015)

(<http://www.bbc.co.uk/news/uk-scotland-tayside-central-33098322>)



A Hearing Aid That Can "See" (16 Jun 2015)

(<http://www.meddeviceonline.com/doc/a-hearing-aid-that-can-see-0001>)



Big Data Analytics: an Editor Q+A(1 Jul 2016)

(<http://blogs.biomedcentral.com/on-biology/2016/07/01/big-data-analytics-editor-qa/>)

Latest Research Papers

Visit Publications page (publications.html) for full list

1. Scardapane S, Panella M, Comminiello D, Hussain A and Uncini A (2016) Distributed Reservoir Computing with Sparse Readouts, IEEE Computational Intelligence Magazine, Volume: 11, Issue: 4, Nov. 2016 (ISI-SCI Impact Factor (IF): 3.6) (DOI: 10.1109/MCI.2016.2601759)

2. Amin A; Anwar S; Adnan A; Nawaz M; Howard N; Qadir J; Hawalah A; Hussain A(2016) Comparing oversampling techniques to handle the class imbalance problem: A customer churn prediction case study, IEEE Access, Issue 99, 26 Oct 2016 (DOI: 10.1109/ACCESS.2016.2619719) (ISI-SCI Impact Factor (IF): 1.27)
3. Malik, Z.K., Hussain A and Wu.J. (2016) Multi-Layered Echo State Machine: A novel Architecture and Algorithm, IEEE Transactions on Cybernetics, Issue 99, 2016 (DOI: 10.1109/TCYB.2016.2533545) (ISI-SCI Impact Factor (IF): 3.6)
4. Malik, Z.K., Hussain A and Wu.J (2016) Extracting online information from Dual and Multi-Datstream, in press, 2016, (Springer) Neural Computation and Application (ISI-SCI IF: 1.8)
5. Malik, Z.K., Hussain A, and Wu, J. (2016) An online generalized eigenvalue version of Laplacian Eigenmap for Visualizing Big Data, (Elsevier) Neurocomputing, Vol. 173: 127-136, 2016 (ISI-SCI IF 2.3)
6. Poria S, Cambria E, Hussain A(2016) Fusing Audio, Visual and Textual Clues for Big Social Data Analysis, (Elsevier) Neurocomputing, Vol. 174: 50-59, 2016 (doi:10.1016/j.neucom.2014.12.119) (ISI-SCI IF: 2.3)
7. Poria S, Cambria E, Gelbukh A, Bisio F, Hussain A(2015) Sentiment Big Data Flow Analysis by Means of Dynamic Linguistic Patterns, IEEE Computational Intelligence Magazine, 10(4), 26-36, 2015 (ISI-SCI IF: 3.6)
8. Poria S, Cambria E, Hussain A, Huang G (2015) Towards an intelligent framework for multimodal affective data analysis, (Elsevier) Neural Networks (doi:10.1016/j.neunet.2014.10.005 (http://dx.doi.org/10.1016/j.neunet.2014.10.005)) 63, 104-116, March 2015 (ISI-SCI IF: 2.7)
9. Wajid S, Hussain A(2015) Local energy-based shape histogram feature extraction technique for breast cancer diagnosis, (Elsevier) Expert Systems with Applications, 42 (20), 6990-6999, Nov 2015 (ISI SCI IF: 2.6)
10. Poria S, Gelbukh A, Cambria, Hussain A, Huang G (2014) Emo-SenticNet: Development and Applications, (Elsevier) Knowledge-Based Systems, 69:108–123, October 2014 (ISI-SCI IF: 4.1)

International Recognition

- **Founding Editor-in-Chief: (ISI-SCI indexed)** Cognitive Computation (<http://www.springer.com/12559>) (Springer Nature Neuroscience (<http://www.springer.com/12559>), NY, USA) (2015-16 ISI Impact factor: 1.93) Volumes 1/2009 – 8/2016 published (<http://link.springer.com/journal/volumesAndIssues/12559>) (Free Preview! (<http://link.springer.com/journal/12559>))
- **Founding Editor-in-Chief of new Open-Access journal: Big Data Analytics** (Springer Nature / BioMed Central (<http://www.cs.stir.ac.uk/Springer%20Nature%20/%20BioMed%20Central>)) – <http://www.bdataanalytics.com> (<http://www.bdataanalytics.com/>) (PubMed indexed)
- **Associate Editor:** IEEE Transactions on Neural Networks & Learning Systems (<http://iee-cis.org/pubs/tnn/>) (ISI-SCI Impact Factor: 4.37, ranked second top journal in the world, in its field)
- **Associate Editor:** IEEE Computational Intelligence Magazine (<http://cis.ieee.org/ieee-computational-intelligence-magazine.html>) (ISI-SCI 5-yr Impact Factor (IF): 4.629)

- **Associate Editor:** IEEE Transactions on Systems Man and Cybernetics: (<http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=6221021>) Systems (ISI-SCI IF: 1.6)
- **Editor-in-Chief of new Book Series:** SpringerBriefs on Cognitive Computation (<http://www.springer.com/series/10374>) (Springer Nature)
- **Editor-in-Chief of new Book Series:** Socio-Affective Computing (<http://www.springer.com/series/13199>) (Springer Nature)
- **IEEE UK & RI Chapter Chair**, IEEE UK RI Industry Applications Society Chapter (http://iee-ukri.org/?page_id=462)
- **Founding Publications co-Chair for INNS** (<http://www.inns.org/>) **Big Data Section** (<http://www.inns.org/big-data-section>) and annual 2015 INNS Big Data Conference (<http://innsbigdata.org/committees/>)
- **Publications Chair and Organizing Committee member**, IEEE IJCNN2015 (<http://www.ijcnn.org/organizing-committee>), Killarney, Ireland, July 12 - 16, 2015
- **Founding General Chair**, Annual IEEE International Symposium on Computational Intelligence in Healthcare and e-Health (IEEE-CICARE'2013-2016 (<http://www.cs.stir.ac.uk/events/CICARE2016/>)) (part of the flagship IEEE SSCI Conference)
- **Founding General Chair:** Annual International Conference on Brain Inspired Cognitive Systems (BICS2004-16 (<http://bii.ia.ac.cn/bics-2016/>)), 8th BICS'2016 being held at Beijing, 28-30 Nov 2016.

Prospective PhD students: You are welcome to email me if you are interested in discussing any research idea(s) – you may either propose your own or I can give you something to think about!

The University of Stirling is ranked in the top 50 in the world in The Times Higher Education 100 Under 50 table (2015), which ranks the world's best 100 universities under 50 years old.



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