# DR. SHAHIN ROSTAMI

Forename: Shahin Surname: Rostami Birthplace: Bournemouth, UK Gender: Male

# Lecturer (Assistant Professor) in Computing

**Programme Leader** for MSc Applied Data Analytics Department of Computing & Informatics, Office P427,

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PhD in Computational Intelligence and Machine Learning with the Manchester
Metropolitan University, United Kingdom. Thesis: "Preference Focussed Many-Objective
Evolutionary Computation".
<b>BSc (Hons) Computing - First Class</b> with the Manchester Metropolitan University, United Kingdom.

### TEACHING QUALIFICATIONS

Dec 2017	Senior Teaching Fellow (D3) of the UK Professional Standards Framework, Advance HE (formerly Higher Education Academy).
Feb 2016	<b>Teaching Fellow</b> (D2) of the UK Professional Standards Framework, Advance HE (formerly Higher Education Academy).
Jan 2012	<b>PGCAP Teaching and Learning</b> (10 Credits) with the Manchester Metropolitan University, United Kingdom.

### WORK EXPERIENCE

May 2015 - Current	<b>Lecturer in Computing</b> with the Department of Computing & Informatics, Faculty of Science & Technology, Bournemouth University, United Kingdom.
Sep 2014 - May 2015	<b>Demonstrator in Computing</b> with the Department of Computing & Informatics, Faculty of Science & Technology, Bournemouth University, United Kingdom.
Sep 2011 - Aug 2014	<b>Associate Lecturer</b> , Graduate Tutor, and Demonstrator with the Manchester Metropolitan University, United Kingdom.
Apr 2010 - Nov 2010	Software Engineer with Building Blocks (UK) Ltd., Manchester, United Kingdom.
Jun 2008 - Feb 2010	<b>Software Developer</b> with Havas Lynx (formerly Creative Lynx Ltd.), Manchester, United Kingdom.

### MANAGERIAL AND LEADERSHIP EXPERIENCE

Apr 2018 - Current	<b>Teaching Mentor</b> to Mrs Gail Ollis, Faculty of Science & Technology, Bournemouth University, United Kingdom.
Apr 2017 - Current	<b>Programme Leader</b> of MSc Applied Data Analytics, Bournemouth University, United Kingdom.
Feb 2016 - Current	<b>V4L Steering Group Member</b> , Representing the Faculty of Science & Technology, Bournemouth University, United Kingdom.
Jan 2016 - Current	<b>Innovation in Education Leader</b> , Faculty of Science & Technology, Bournemouth University, United Kingdom.

Jan 2016 - Current	<b>Research Mentor</b> to Dr. Gernot Liebchen, Faculty of Science & Technology, Bournemouth University, United Kingdom.
Aug 2015 - Sep 2017	<b>Link Tutor</b> to the Bournemouth & Poole College, Bournemouth University, United Kingdom.
May 2015 - Dec 2015	Coordinator of the Intelligent Systems Group, Bournemouth University, United Kingdom.
PROFESSIONAL ME	EMBERSHIPS
Aug 2015 - Current	Computational Intelligence Society, IEEE
Aug 2015 - Current	Institute of Electrical and Electronics Engineers (IEEE)
Aug 2016 - Sep 2017	British Computer Society (BCS)
CURRICULUM DESI	IGN AND DEVELOPMENT
Jun 2018 - Current	<b>MSc Applied Data Analytics</b> , Revalidation, Faculty of Science & Technology, Bournemouth University, United Kingdom.
Jun 2016 - Jun 2017	<b>Undergraduate Computing Framework</b> , 7 BSc (Hons) programmes, Revalidation, Faculty of Science & Technology, Bournemouth University, United Kingdom.
May 2015 - Jul 2015	<b>BSc (Hons) Cyber Security Management</b> , Validation, Faculty of Science & Technology, Bournemouth University, United Kingdom.
TEACHING EXPERI	ENCE
<b>Undergraduate Units</b>	(Unit Leader)
Sep 2018 - Current	<b>Level 4 Applications of Principles of Programming</b> , 340 students, Co-lead and Mentor, Faculty of Science & Technology, Bournemouth University, United Kingdom.
Sep 2015 - Aug 2018	<b>Level 4 Principles of Programming</b> , 80 students, Faculty of Science & Technology, Bournemouth University, United Kingdom.
Sep 2015 - Aug 2017	<b>Level 4 Computers and Networks</b> , 300 students, Faculty of Science & Technology, Bournemouth University, United Kingdom.
Postgraduate Units (U	Jnit Leader)
Sep 2017 - Current	<b>Level 7 Data Mining and Analytic Technologies</b> , 15 students, Faculty of Science & Technology, Bournemouth University, United Kingdom.
May 2015 - Dec 2015	<b>Level 7 Python for Security</b> , 12 students, Faculty of Science & Technology, Bournemouth University, United Kingdom.
Workshops	
Sep 2010 - Aug 2011	<b>Level 5 Model View Controller for Enterprise</b> , 30 students, Block-mode delivery, Faculty of Science and Engineering, Manchester Metropolitan University
<b>Delivered Units (Teac</b>	hing Team)
Sep 2014 - Aug 2015	<b>Level 5 Digital Forensics</b> , 64 students, Faculty of Science & Technology, Bournemouth University, United Kingdom.
Sep 2014 - Aug 2015	<b>Level 5 Forensic Computing</b> , 18 students, Faculty of Science & Technology, Bournemouth University, United Kingdom.
Sep 2014 - Aug 2015	<b>Level 4 Relational Databases</b> , 253 students, Faculty of Science & Technology, Bournemouth University, United Kingdom.
Sep 2014 - Aug 2015	<b>Level 4 Systems Analysis &amp; Design</b> , 253 students, Faculty of Science & Technology, Bournemouth University, United Kingdom.
Sep 2014 - Aug 2015	<b>Level 4 Computers and Networks</b> , 253 students, Faculty of Science & Technology, Bournemouth University, United Kingdom.
Sep 2012 - Aug 2014	<b>Level 6 Advanced Computer and Network Technology</b> , 25 students, Faculty of Science and Engineering, Manchester Metropolitan University
Sep 2012 - Aug 2014	Level 4 Computer and Network Technology, 30 students, Faculty of Science and

	Engineering, Manchester Metropolitan University
Sep 2011 - Aug 2012	<b>Level 4 Programming</b> , 30 students, Faculty of Science and Engineering, Manchester Metropolitan University
<b>Outreach and Public</b>	Engagement
2017 - Current	Public Educational Videos on Computational Intelligence, https://www.youtube.com/watch?v=LIxUH4fac.
2016 - 2017	Mario A.I Research Project, http://www.shahinrostami.com/marp/.
2015	<b>Festival of Learning</b> , Cyber Security Awareness Session: Memory Manipulation, Bournemouth University.
2015	King Edwards School, Cyber Security Awareness Session: Memory Manipulation.
<b>Invited Sessions</b>	
Mar 2017	<b>Statistical Pairwise Comparison</b> , Invited Guest Lecture, for the Security Information and Event Management cohort, Faculty of Science & Technology, Bournemouth University, United Kingdom.
Dec 2014	<b>Memory Manipulation</b> , Invited Guest Lecture, for the Digital Forensics and Forensic Computing cohort, Faculty of Science & Technology, Bournemouth University, United Kingdom.
<b>Session Organisation</b>	
Aug 2018	<b>TEF and NSS: A managerial view</b> , Invited Speaker Prof. Ferrante Neri hosted at the Bournemouth University. Organiser.
EVALUATION AND	PANEL EXPERIENCE
Oct 2017	<b>PhD Viva Chair</b> , Thesis of Mahmood Hosseini: "Engineering of Transparency Requirements in Business Information System", Bournemouth University.
Mar 2017 - Current	<b>Independent Pay &amp; Promotion Panel Member</b> , Grade 7-9, Bournemouth University, United Kingdom.
Jan 2016	<b>Panel Member</b> , 5 candidates for Grade 5 post (Demonstrator in Computing), Bournemouth University.
Jan 2016 - Current	PhD Interview Chair, multiple candidates, Bournemouth University.
Jan 2016 - Current	PhD Interview Panel, multiple candidates, Bournemouth University.
Jan 2016 - Current	HEA Fellowship Assessment Panel, for D1, D2, and D3, Bournemouth University.
SUPERVISION	
PhD, Postgraduate R	esearch Student
Sep 2018 - Ongoing	<b>Saygun Guler</b> , Bournemouth University, Thesis: "Non-contact remote monitoring of human vital signs: defining the 'art of the possible", 2nd supervisor with Prof. Alison McConnell.
Jan 2017 - Ongoing	<b>Kevin Wilson</b> , Bournemouth University, Thesis: "Many-Objective Evolutionary Computation", 1st supervisor with Prof. Siamak Noroozi.
Sep 2016 - Ongoing	<b>Waqas Jamil</b> , Bournemouth University, Thesis: "Sketches and Online Learning", 2nd supervisor with Prof. Hamid Bouchachia.
Apr 2016 - Ongoing	<b>Mohammed Alqurashi</b> , Bournemouth University, Thesis: "An Intrusion Detection System for IoT Enabled Devices", 2nd supervisor with Prof. Vasilis Katos.
MSc (European Syste	em), Postgraduate Research Student
Sep 2015 - Sep 2016	Michele Di Lecce, Visiting Research Student from Technical University of Bari, Italy at De Montfort University, Thesis: "An accelerated Selection Method for Many-Objective Optimization", Invited external supervisor with Prof. Ferrante Neri.
Research Assistants	
Sep 2017 - Aug 2018	<b>Ashley Prince,</b> Bournemouth University, Project: "Towards a scalable exact hypervolume indicator.".

Sep 2017 - Aug 2018	<b>Donya Rahmani,</b> Bournemouth University, Project: "Pattern Recognition and Data Quality in EEG data-sets.".
Sep 2016 - Aug 2017	<b>Sherin Varghese,</b> Bournemouth University, Project: "EEG data-set for Adaptive Computer Interfaces for Improved Productivity and Personal Health.".
Sep 2016 - Aug 2017	<b>Flynn Acworth,</b> Bournemouth University, Project: "Visualisation of the Evolutionary Computation Process to Improve Understanding and Track Erroneous Behaviour.".
MSc, Postgraduate T	aught Student
Sep 2017 - Sep 2018	<b>Thi Pham</b> , Bournemouth University, Thesis: "Matrix Factorization with Sentiment Analysis: A Hybrid Recommendation System", 1st supervisor.
Sep 2017 - Sep 2018	<b>Ching Ru-Kuo</b> , Bournemouth University, Thesis: Identity Informed Usage for Problematic Smartphone Users from a Statistical Perspective", 2nd supervisor with Dr. Raian Ali.
Sep 2017 - Sep 2018	<b>Fiona Shorten</b> , Bournemouth University, Thesis: "Data Analytics for Smartphone Usage Emotions and Framing Interventions", 2nd supervisor with Dr. Raian Ali.
BSc, Undergraduate	Project Supervision (Selected)
Jan 2016 - Jun 2017	William Knight, Bournemouth University, Dissertation: "Applying Machine Learning to Non-Contact Pulse Detection via Webcam". Nominated for best project award (undecided).
Jan 2017 - Jun 2017	<b>Valentin Bratanov</b> , Bournemouth University, Dissertation: "Incorporation of a Machine Learning System into the Mortgage Application Decision Making Process". Winner of the JP Morgan award for an excellent project.
RESEARCH EXPER	IENCE
Journal Reviewer	
Jun 2016 - Current	Integrated Computer-Aided Engineering (ICAE), IOS Press.
Sep 2016 - Current	International Journal of Neural Systems (IJNS), World Scientific.
Sep 2015 - Current	Information Sciences (INS), Elsevier.
Sep 2015 - Current	Swarm and Evolutionary Computation (SWEVO), Elsevier.
Sep 2015	Expert Systems with Applications (EWSA) Elsevier.
Sep 2015	Computers & Security (COSE), Elsevier.
<b>Conference Organisa</b>	tion
Sep 2018	UKCI 2018: 18th Annual UK Workshop on Computational Intelligence, Programme Committee.
May 2018	IEEE International Conference on Computational Intelligence in Bioinformatics and Computational Biology 2018 (IEEE CIBCB 2018). Programme Committee
Oct 2017	<b>IEEE International Conference on Data Science and Advanced Analytics 2-017</b> (IEEE DSAA 2017), Programme Committee.
Aug 2017	Machine Learning in Medical Diagnosis and Prognosis, Special Session at the IEEE International Conference on Computational Intelligence in Bioinformatics and Computational Biology (IEEE CIBCB 2017). Organiser and Session Chair.
Apr 2017	British Conference of Undergraduate Research 2017 (BCUR 2017), Scientific Committee.
Mar 2017	IEEE International Conference on Computational Intelligence in Bioinformatics and Computational Biology 2017 (IEEE CIBCB 2017). Programme Committee.
<b>Session Organisation</b>	
May 2018	<b>Machine learning approaches to retail demand forecasting</b> , Invited Speaker Dr. Damien Fay of Infor, hosted at the Bournemouth University. Organiser.
Research Visits	
Jul 2018	Centre for Computational Intelligence, De Montfort University, United Kingdom, Visiting Researcher, invited by Prof. Ferrante Neri, Associate Head of School of Computer Science and Informatics. Project: "Algorithmic Design Issues in Neuroevolution".

# FUNDED PROJECTS AND AWARDS

Externally Funded P	Projects
July 2018	<b>SPEED - Smart Ports Entrepreneurial Ecosystem Development</b> , awarded by the Europear Regional Development Fund (ERDF) - Interreg 2 Seas Programme, as Co-Investigator with Primary Investigator Dr. Reza Sahandi, Bournemouth University. Total: €393,783.75.
Sep 2016 - Sep 2018	EduWeb - Combatting Digital Exclusion: Children Educate Digital illiterate Adults in Safe and Creative Web, awarded by the European Commission, as Co-Investigator with Primary Investigator Prof. Vasilis Katos, Bournemouth University. Total: £195,181.00
Mar 2018	Non-contact remote monitoring of human vital signs: defining the 'art of the possible, match-funded PhD Studentship between Xim Ltd. and the Bournemouth University, with Prof. Alison McConnell, Bournemouth University. Total: £22,800.00
Apr 2015	New multidisciplinary adaptive computer interfaces for improved productivity and personal health, awarded by the NVIDIA CORPORATION, as Primary-Investigator, Bournemouth University. Research Equipment Total Value: £1,200.00.
Internally Funded P	rojects
Apr 2018	<b>Towards a scalable exact hypervolume indicator</b> , with Dr. Natalia Chechina, awarded by Bournemouth University. Total: £1,708.56.
Mar 2017	<b>An investigation into falsely classified samples in pattern recognition models</b> , awarded by Bournemouth University with Dr. Gernot Liebchen. Total: £1500.
Feb 2017	MooViz: Visualisation of the Evolutionary Computation Process to Improve Understanding and Track Erroneous Behaviour, with Dr. Nan Jiang, awarded by Bournemouth University. Total £2500.
Dec 2016	EEG data-set for Adaptive Computer Interfaces for Improved Productivity and Personal Health, awarded by Bournemouth University. Total: £2000.
Oct 2015	New multidisciplinary adaptive computer interfaces for improved productivity and personal health, with Dr. Nan Jiang, awarded by Bournemouth University. Total: £8,826
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**Grants & Bid WRiting Workshop** (8 hours)

2017

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2017	Preparing Impact Case Studies for REF2021, (4 hours), by Vertigo Venture
2016	Grants Academy (24 hours)
2016	Cerulean Unconscious Bias Workshop (4 hours), Cerulean
2016	Unconscious Bias Workshop, (1 hour)
2016	Inclusive, Cohesive & Safe Campuses, (2 hours)
2015	Education Quality, (2 hours)
2015	<b>Doctoral Supervision Development</b> , (15 hours)
2014	MATLAB Parallel-Computing Workshop (3 hours)
2013	Personal Learning Plans for Students with Dyslexia (2 hours)

#### LIST OF PUBLICATIONS

#### **Refereed Journal Articles**

- [J6] Rostami, S., & Neri, F. (2017). A fast hypervolume driven selection mechanism for many-objective optimisation problems. Swarm and evolutionary computation, 34, 50-67.
- [J5] Rostami, S., Neri, F., & Epitropakis, M. (2017). Progressive preference articulation for decision making in multi-objective optimisation problems. Integrated Computer-Aided Engineering, 24(4), 315-335.
- [J4] Tsimperidis, I., Rostami, S., & Katos, V. (2017). Age detection through keystroke dynamics from user authentication failures. International Journal of Digital Crime and Forensics (IJDCF), 9(1), 1-16.
- [J3] Rostami, S., & Neri, F. (2016). Covariance matrix adaptation pareto archived evolution strategy with hypervolume-sorted adaptive grid algorithm. Integrated Computer-Aided Engineering, 23(4), 313-329.
- [J2] Rostami, S., & Shenfield, A. (2017). A multi-tier adaptive grid algorithm for the evolutionary multi-objective optimisation of complex problems. Soft Computing, 21(17), 4963-4979.
- [J1] Rostami, S., O'Reilly, D., Shenfield, A., & Bowring, N. (2015). A novel preference articulation operator for the evolutionary multi-objective optimisation of classifiers in concealed weapons detection. Information Sciences, 295, 494-520.

#### Articles in Refereed Conference Proceedings, Post-proceedings, and Edited Book

- [C9] Saul, M.A. and Rostami, S. (2018). A Comparison of Resampling Techniques for Pattern Classification in Imbalanced Data-Sets, UKCI 2018: 18th annual UK workshop on computational intelligence, 5-7 September 2018, Nottingham Trent University, Nottingham, United Kingdom.
- [C8] Wilson, K. and Rostami, S. (2018). On the Integrity of Performance Comparison for Evolutionary Multi-objective Optimisation Algorithms, UKCI 2018: 18th annual UK workshop on computational intelligence,, 5-7 September 2018, Nottingham Trent University, Nottingham, United Kingdom.
- [C7] Nava, T., Rostami, S. and Smyth, B. (2018). Knowing the unknown: visualising consumption blind-spots in recommender system. In: SAC 2018 The 33rd ACM/SIGAPP Symposium On Applied Computing, 9-13 April 2018, Pau, France.
- [C6] Shenfield, A., & Rostami, S. (2017). Multi-objective evolution of artificial neural networks in multi-class medical diagnosis problems with class imbalance. In Computational Intelligence in Bioinformatics and Computational Biology (CIBCB), 2017 IEEE Conference on (pp. 1-8). IEEE.
- [C5] Shenfield, A., & Rostami, S. (2015). A multi objective approach to evolving artificial neural networks for coronary heart disease classification," 2015 IEEE Conference on Computational Intelligence in Bioinformatics and Computational Biology (CIBCB), Niagara Falls, ON, 2015, pp. 1-8.
- [C4] Rostami, S., Shenfield, A., Sigurnjak, S., & Fakorede, O. (2015). Evaluation of mental workload and familiarity in human computer interaction with integrated development environments using single-channel EEG. In Proceeding of PPIG 2015-26th Annual Workshop.
- [C3] Rostami, S., Delves, P., & Shenfield, A. (2013). Evolutionary Multi-Objective Optimisation of an Automotive Active Steering Controller. In Science and Engineering Research Symposium (pp. 1-3).
- [C2] Rostami, S., & Shenfield, A. (2012, September). Cma-paes: Pareto archived evolution strategy using covariance matrix adaptation for multi-objective optimisation. In Computational Intelligence (UKCI), 2012 12th UK Workshop on (pp. 1-8). IEEE.

[C1] Rostami, S., & Shenfield, A. (2012). Adaptive Grid Archiving Combined with the Covariance Matrix Adaptation Evolution Strategy.