

CURRICULUM VITAE

1. PERSONAL DATA

Name: Karam Sallam

Date of Birth: 15/10/1984

Place of Birth: Egypt

Nationality: Australian

Tel (home): N/A

Tel (Mobile): +971559241467

Fax : N/A

Email: KSallam@sharjah.ac.ae; karam.sallam84@gmail.com

2. ACADEMIC/PROFESSIONAL PARTICULARS

(a) Field of Specialization:

Computer Science, Artificial Intelligence, data science

(b) Academic Qualifications

- PhD, Computer Science, 2018, University of New South Wales, Australia, A Study of Function Landscape and Search Space with Evolutionary Algorithms, N/A.
- BS, Information Systems and Technology, 2006, Zagazig University, Egypt, N/A, 3.393.

(c) Academic Honors and Awards

- Obtained **Rank 1** in CEC'21 competitions on single objective bound constrained real-parameter numerical optimization in Proc of IEEE Congress on Evolutionary Computation, IEEE-CEC 2021, Poland.
- Obtained **Rank 1** in CEC'20 competitions on single objective bound constrained real-parameter numerical optimization in Proc of IEEE Congress on Evolutionary Computation, IEEE-CEC 2020, UK.
- Obtained **Rank 3** in CEC'15 competitions on single objective bound constrained real-parameter numerical optimization in Proc of IEEE Congress on Evolutionary Computation, IEEE-CEC 2015, Sendai, Japan.

(d) Membership of Professional Bodies

- Institute of Electrical and Electronics Engineers (IEEE), Member, Period (10/14- Present).
- IEEE Computational Intelligence Society Membership, Member, Period (10/14- Present).

(e) Language Proficiency

- Arabic - Native

- English - Fluent

3. CAREER DETAILS

(a) Academic Positions Held

- Assistant Professor, Computer Science Department, University of Sharjah, Sharjah, UAE, 08/2023- Present
- Lecturer, School of IT and Systems, University of Canberra, Australia, 03/20 – 08/2023.
- Research Associate, Capability Systems Centre, University of New South Wales, Canberra, Australia, 03/19 – 03/20.
- Research Associate, School of Engineering and Information Technology, University of New South Wales, Canberra, Australia, 06/18 – 03/2019.
- PhD Researcher, School of Engineering and Information Technology, University of New South Wales, Canberra, Australia, 03/14 – 03/18.
- Assistant Lecturer, Zagazig University, Egypt, 10/06 – 03/14.

(b) Professional/Industrial Positions Held

- Engineering Assistant team Lead, Data Acquisition, Seeing Machine Ltd, Australia, 01/15 – 06/18

(c) Administrative Positions Held (Dates: MM/YY-MM/YY)

N/A

4. Teaching

(a) Summary of Courses Taught

I taught the following courses at the University of Canberra, Australia

- 11511, Internet of Things
- 11513, Internet of Things PG
- 9281, Enterprise and Cloud Computing
- 11368, Cloud Computing Architecture
- 8019, Computer and Network Security
- 11372, Introduction to Data Science

I also taught many courses at Zagazig University, Egypt:

- Analysis and Design of Algorithms.
- Structured Programming (C/C++).
- Linear Algebra.
- Differential Equations and Numerical Methods.
- Discrete Mathematics.
- Introduction to Basic Statistics and Probability Theory.
- Game Theory.
- Modelling and Simulation.

(b) Training

- AWS Academy Cloud Architecting (ACA), Amazon Web Service, Australia and New Zealand, 11/22 – 11-22
- AWS Academy Machine Learning Foundations, Amazon Web Service,

Australia and New Zealand, 11/22 – 11-22

- AWS Academy Cloud Security Foundations (ACSF), Amazon Web Service, Australia and New Zealand, 12/22 – 12-22
- Research Methodology, Zagazig University, Egypt, 07/22 – 07/22
- Teaching methods skills for different group sizes, Zagazig University, Egypt, 07/22 – 07/22.
- Modern methods and techniques of evaluations, Zagazig University, Egypt, 06/22 – 06/22.

5. RESEARCH

(a) Research Interests

- Computational intelligence and evolutionary algorithms
- Optimization
- Machine, Deep learning, and Reinforcement Learning
- Internet of Things
- Cybersecurity
- Cloud and Fog computing
- Energy

(b) Research Grants

- Radwan, I., Goecke, R. & **Sallam, K**, Principal Investigator "Advanced Rider Assistance Systems for Improved Road Safety of Motorcyclists" CRC-P, 2023 – 2025, **AUD\$ 1,263,707.30**".
- Internal from Capability Systems Centre, Chief Investigator, **Sallam**, Chakraborty, Moustafa, Ryan, "Pilot optimization models for security systems", Capability Systems Centre, UNSW Canberra, Australia, 2019-2020, **AUD\$ 20,000**.
- Internal from Capability Systems Centre, Chief Investigator, **Sallam**, Chakraborty, Moustafa, Ryan, "Pilot optimization models for fog-cloud computing", Capability Systems Centre, UNSW Canberra, Australia, 2019-2020, **AUD\$ 17,000**.
- Lab building grant, Munasinghe, Ma, Elgendi, Rojas, and **Sallam** "Equipment for network engineering lab", University of Canberra, Australia, 2022, **AUD\$170,000**.
- Equipment purchase grant, Ambi, Dharmendra, Ahmed, Ram, Hamed and **Sallam** "Brain Computer interface sensors", University of Canberra, Australia, 2021, **AUD\$49,580**.
- Equipment purchase grant, **Sallam**, Elgendi, and Ambi "NVIDA JetPack", University of Canberra, Australia, 2021, **AUD\$7,878.51**.

(c) Patents

N/A

(d) Participation in Regional & International Conferences

- IEEE World Congress on Computational Intelligence WCCI2022, Padua - Italy, 18 – 23 Jul
- IEEE Congress on Evolutionary Computation CEC2021, Kraków - Poland, 28 Jun- 1 Jul.
- IEEE Congress on Evolutionary Computation CEC2020, Glasgow - Scotland, 19 - 24 Jul.
- IEEE Symposium Series on Computational Intelligence (SSCI) 2020, Canberra - Australia, 01 - 04 Dec.
- IEEE International Conference on Industrial Engineering and Engineering Management (IEEM), Macao - China, 15 - 18 Dec.
- IEEE World Congress on Computational Intelligence WCCI2022, Rio de Janeiro - Brazil, 8 - 13 Jul.

6. SERVICE

(a) Membership of Institutional, National, or International Scientific Advisory Boards

- IEEE, Member, Period (10/14- Present).
- IEEE Computational Intelligence Society Membership, Member, Period (10/14- Present).

(b) Membership of Conference Committees

N/A

(c) Service as Reviewer

Journals

- IEEE Transaction on Cybernetics, 21682275, 21682267, IEEE (10/2015)
- IEEE Transactions on Evolutionary Computations, 1089-778X (print) 1941-0026 (web), IEEE.
- IEEE Transactions on Industrial Informatics, 1551-3203, IEEE.
- Information Sciences, 00200255, Elsevier.
- Swarm and Evolutionary Computation, 2210-6502, Elsevier.
- Applied Soft Computing, 1568-4946, Elsevier.
- Expert Systems with Applications, 09574174, Elsevier.
- Computers and Operations Research, 03050548, 1873765X, Elsevier.
- Engineering Applications of Artificial Intelligence, 9521976, Elsevier.
- IEEE Access, 21693536, IEEE

Conferences

- IEEE World Congress on Computational Intelligence WCCI2022, Padua - Italy, 18 – 23 Jul
- IEEE Congress on Evolutionary Computation CEC2021, Kraków - Poland, 28 Jun- 1 Jul.
- IEEE Congress on Evolutionary Computation CEC2020, Glasgow - Scotland, 19 - 24 Jul.
- IEEE Symposium Series on Computational Intelligence (SSCI) 2020, Canberra - Australia, 01 - 04 Dec.
- IEEE International Conference on Industrial Engineering and Engineering Management (IEEM), Macao - China, 15 - 18 Dec.
- IEEE World Congress on Computational Intelligence WCCI2022, Rio de Janeiro - Brazil, 8 - 13 Jul.

(d) Service to Profession/Industry

SeeingMachines Ltd., Australia, Engineering Assistant team Lead, 01/15 – 06/18.

7. List of Publications *(in chronological order, starting with most recent)*

For the full list of publications, please see my Google Scholar.

<https://scholar.google.com.au/citations?hl=en&user=18HeeBQAAAAJ>