ABIRA SENGUPTA

web: https://abira-sengupta.github.io

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A.EDUCATIONAL QUALIFICATION

1) **Doctoral of Philosophy (PhD) in Information Science (pursuing 2019)**
- University of Otago, NZ

2) **Masters of technology (MTech) in Computer Science (2011 - 2013)**
- GPA: 8.87/10 (West Bengal University of Technology, India)

3) **Bachelor of Technology (BTech) in Computer Science (2006 - 2010)**
- GP: 7.43/10 (West Bengal University of Technology, India)

B. RESEARCH EXPERIENCE

1) **PhD Research at the University of Otago, NZ (Pursuing April 2019 - present)**
- Research: Multi Agent System.
- Project: Computational theory of collective action (Using Event Calculus).
- Funding: PhD funded by MARSDEN FUND.
- Paper submitted COINE 2021.

2) **Pre-doctoral Research at the Indian Statistical Institute (2017 to 2018)**

- Research: machine learning applied to facial image and pincode detection
- Papers published in conferences (3 in total).

C. TEACHING EXPERIENCE

1) **Tutor/Demonstrator at the University of Otago, NZ(2019 to 2021: 3 semesters)**
- COMP 101, R and SQL coding to undergraduate class, (2019, 2nd semester)
- INFO 204, machine learning using Python coding to undergraduate class (2020, 2nd semester)
-INFO 310, contemporary techniques and methodologies for modern software and system development using JAVA (2021, 1st semester)
2) **Guest Lecturer at Jadavpur University, India (June 2016 to December 2017).**
- Taught Multimedia.
- Also set exam questions and graded them.
3) **Guest Lecturer at Kalayani Government Engineering College, India (January 2016 to December 2018)**
- Taught Algorithm, Automata, Graphics and Multimedia.
- Also invigilated and graded exams.
4) **Guest Lecturer at Aliha University, India (2015)**
- Taught Sensor Networking theory.
- Also set exam questions and graded them.
5) **Guest Lecturer at Narula Institute of Technology, India (August 2013 to December 2016)**
- Taught C Programming and Architecture, Multimedia, Networking theory. - Also invigilated and graded exams.

D. PROFESSIONAL PORTFOLIO

FUNDING/GRANTS
- **57250NZD: MARSDEN scholarship (2.1 years PhD studies)**
- **2964NZD: Pūtea Tautoko - Student Relief Fund (1 month Scholarship and Tuition Fees**
- **3500NZD: Technical Education Quality Improvement Programme (TEQIP) phase-ii scholarship (for 1.6 years).**

E. REFERENCES

1) DR. STEPHEN CRANEFIELD (relation: primary PhD supervisor at Otago)
- Affiliation: Professor, Department of Information Science, University of Otago, NZ.
- Email: stephen.cranefield@otago.ac.nz, phone:

F. PUBLICATIONS

CONFERENCE:
1) Abhijit Das, Abira Sengupta, Muhammad Saqib, Umapada Pal, Michael Blumenstein, "More Realistic and Efficient Face-Based Mobile Authentication using CNNs", (IJCNN) 2018:1-8.
2) Abhijit Das, Abira Sengupta, Miguel A. Ferrer, Umapada Pal, Michael Blumenstein, "Linking face images captured from the optical phenomenon in the wild for forensic science", (IJCB) 2017: 781-786.
3) Nabin Sharma, Abira Sengupta, Rabi Sharma, Umapada Pal, Michael Blumenstein, "Pincode detection using deep CNN for postal automation", (IVCNZ) 2017: 1-6.
4) Abira Sengupta, Saurabh Malgaonkar, Nikita Mehrotra, Tejas Hirave, "A Preliminary Investigation of LEACH, TEEN and DEEC Towards Wireless Sensing Application", (ICCICT) 2021 (accepted for oral presentation).

G. ARXIV PREPRINT

1) Abira Sengupta, Stephen Cranefield, Jeremy Pitt, "Solving social dilemmas by reasoning about expectations," arXiv: 2105.03552, 2021.