Rangika Nilani

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EDUCATION

Massey University   Wellington, New Zealand
PhD in Emergency Management   *December. 2018 – present*

University of Moratuwa   Moratuwa, Sri Lanka
M.Sc. by Research   *June. 2013 – April 2015*

University of Kelaniya   Kelaniya, Sri Lanka
B.Sc. in Management & Information Technology   *July. 2007 – Dec 2011*

PUBLICATIONS

- Algiriyage, N., Jayasena, S., Dias, G., Perera, A., & Dayananda, K. (2013). Identification and characterization of crawlers through analysis of web logs. In 2013 ieee 8th international conference on industrial and information systems (pp. 150–155).

- Algiriyage, N., Jayasena, S., & Dias, G. (2015). Web user profiling using hierarchical clustering with improved similarity measure. In 2015 moratuwa engineering research conference (mercon) (pp. 295–300).

- Algiriyage, N., Sampath, R., Pushpakumara, C., & Wijayarathna, G. (2014). A simulation approach for reduced outpatient waiting time. In 2014 14th international conference on advances in ict for emerging regions (icter) (pp. 128–133).

- Algiriyage, N. (2017). Offline analysis of web logs to identify offensive web crawlers. In International research symposium on pure and applied sciences(irspas).

- Algiryage, N., Dias, G., & Jayasena, S. (2018). Distinguishing real web crawlers from fakes: Googlebot example. In 2018 moratuwa engineering research conference (mercon) (pp. 13–18).

- Algiriyage, N., Prasanna, R., Stock, K., Emma, H.-D., & Johnston, D. (2019). Identifying research gap and opportunities in the use of multimodal deep learning for emergency management. Quake CoRE 2019 .

- Algiriyage, N., Prasanna, R., E H Doyle, E., Stock, K., & Johnston, D. (2020). Traffic flow estimation based on deep learning for emergency traffic management using cctv images. In Iscram 2020 conference proceedings – 17th international conference on information systems for crisis response and management (Vol. 17, pp. 100–109).

- Lambie, E., Johnston, D., Prasanna, R., Stephens, M., Tan, M., Algiriyage, N., . . . others (2020). Smart resilient cities: Understanding socio-technical trends shaping disaster resilience in urban environments. In 2020 natural hazards workshop.

- Algiriyage, N., Prasanna, R., Stock, E. E., Kristin, & Johnston, D. (2020). Traffic flow estimation based on deep learning using cctv images. In New zealand research software engineering conference 2020.

WORKSHOP PARTICIPATION

2021 Disastrous Doctorate   February 2021
3MT style presentation   *Christchurch, New Zealand*

QuakeCoRE Annual Meeting   December 2020
Poster Presentation   *Nelson, New Zealand*

RNC2 Urban Theme Annual Research   November 2020
3MT style presentation   *Auckland, New Zealand*

IEEE NZ Central Section Postgraduate Symposium   August 2020
Oral Presentation   *Wellington, New Zealand*

RNC2 Urban Theme Annual Research	November 2019
3MT style presentation	*Auckland, New Zealand*
QuakeCoRE Annual Meeting	September 2019
Poster Presentation	*Nelson, New Zealand*
RNC2: Urban theme Smart Resilient Cities workshop	August 2019
3MT style presentation	*Wellington, New Zealand*
ISCRAM Asia Pacific - Doctoral Colloquium	November 2018
3MT style presentation	*Wellington, New Zealand*

EXPERIENCE

Lecturer (Probationary)	June 2017 – Present
Department of Industrial Management, University of Kelaniya	*Kelaniya, Sri Lanka*
Consultant/Lecturer	January 2016 – June 2017
National Institute of Business Management (NIBM)	*Kelaniya, Sri Lanka*
Visiting Lecturer	March 2016 – Aug 2016
Department of Computer and Statistics, University of Kelaniya	*Kelaniya, Sri Lanka*
Research Engineer	April 2013 – Dec 2014
LK Domain Registry	*Moratuwa, Sri Lanka*
Visiting Instructor	April 2013 – Dec 2014
Department of Computer Science and Engineering, University of Moratuwa	*Moratuwa, Sri Lanka*
Business Analyst	Oct 2011 – April 2013
D.Samsons and Sons(Pvt) Ltd)	*Colombo, Sri Lanka*
Management Trainee-Internship	June 2009 – Sep 2009
Coca-cola Beverages)	*Biyagama, Sri Lanka*

PROJECTS

Traffic Flow Estimation from CCTV images | *Python, Yolov3* June 2020 – Present
- Developed a methodology to obtain directional traffic flow counts using CCTV images

Traffic Flow Estimation from CCTV footage | *Python, Yolov4* May 2018 – May 2020
- Developed a methodology to obtain directional traffic flow counts in real-time using CCTV footage
- Github Link : Traffic-Flow-Estimation

Disaster-related Tweet Classification | *Python, Pandas, keras, Tensorflow* June 2020 – Present
- Large-scale model evaluation for disaster-related tweet classification
- Github Link : Disaster-Tweet-Classification

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS, php
Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Visual Studio, PyCharm
Libraries: pandas, NumPy, Matplotlib
Deep Learning Platforms: TensorFlow, Keras

PROFESSIONAL AFFILIATIONS AND MEMBERSHIP

Student Member	June 2017 – Present
Engineering New Zealand	*New Zealand*
IEEE Graduate Student Member	March 2016 – Aug 2016
IEEE NZ Central Section	*New Zealand*
Vise President	April 2013 – Dec 2014
QuakeCoRE Emerging Researcher Chapter	*Wellington, New Zealand*

I hereby certify that all the information provided in this CV is true and correct. Referees would be available upon your request.