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., 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).

- 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.

- 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, 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 .

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

- 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., 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).

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*
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 footage | *Python, Yolov4*   Aug 2020 – Jan 2021
- Developed a methodology to obtain directional traffic flow counts in real-time using CCTV footage
- Github Link : <u>Traffic-Flow-Estimation</u>

Disaster-related Tweet Classification | *Python, Pandas, keras, Tensorflow*   Aug 2020 – Jan 2021
- Large-scale model evaluation for disaster-related tweet classification
- Github Link : <u>Disaster-Tweet-Classification</u>

Traffic Flow Estimation from CCTV images | *Python, Yolov3*   Oct 2019 – Jan 2020
- Developed a methodology to obtain directional traffic flow counts using CCTV images
- Github Link : <u>Traffic-Flow-Estimation</u>

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 2020 – Present
Engineering New Zealand	*New Zealand*
IEEE Graduate Student Member	August 2020 – present
IEEE NZ Central Section	*New Zealand*
Vise President	Jan 2020 – Dec 2020
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.