NURFASHAREENA BINTI MUHAMAD

Disaster Risk Reduction Decision Support System (DRR-DSS)

OVERVIEW OF PAST (2017-2018), CURRENT (2019) ACTIVITIES & FUTURE PLANS (2020-2025)

RESEARCH

PAST	CURRENT	FUTURE
Geospatial (GIS) for nat.hazards assessment	Multi-hazard assessment;Susceptibility modelling; Disaster alert	Multi-hazard assessment; Susceptibility modelling; Disaster alert; Integration of element at risk / vulnerability assessment; Big earth data for DRR; DRR Decision Support System

FUNDING

PAST	CURRENT	FUTURE
None	GGPM	FRGS; GUP; NUO; Int. Grant

PUBLICATIONS

PAST	CURRENT	FUTURE
Scopus; Non-indexed journal; SEADPRI Bulletin	WoS; Scopus; SEADPRI Bulletin (1st or CA 3 per year)	WoS; Scopus; Book Chapter; SEADPRI Bulletin (1st or CA 4/5 per year)

SCIENCE PRODUCTS

PAST	CURRENT	FUTURE
None	KL Multi-hazard Platform (MHP)	SEADPRI MHP (Makmal E-bencana)

POLICY PRODUCTS

PAST	CURRENT	FUTURE
None	DRR Decision Support System for localized area in Selangor	DRR Decision Support System for Cities in Malaysia

NETWORKS

PAST	CURRENT	FUTURE
UKM; ANCST	UKM; ANCST; U-Inspire (youth Malaysia); IRDR; ISC	UKM; ANCST; U-Inspire (youth Malaysia); IRDR; ISC

PARTNERS

PAST	CURRENT	FUTURE
LESTARI	LESTARI;UKM; Other Uni. (UM,UTM Skudai, etc.)	LESTARI;UKM;Other Uni.; Geospatial Fraternity; U-Inspire (youth in the region); National partners; Int. partners (UNDRR-IRDR)

TRAINING & CAPACITY BUILDING

PAST	CURRENT	FUTURE
MW2C	Kursus Citra; GIS W/shop	Citra; MSc/PhD Attachment; Private Sector Consultancy

OUTREACH

PAST	CURRENT	FUTURE
SEADPRI Forum; Workshops / Seminar	SEADPRI Forum; Workshops / Seminar; Int. Conferences; Ignite stage Global Platform	SEADPRI Forum; Workshops / Seminar; Int. Conferences; Keynote speaker; Ignite stage Global Platform

PUBLICATIONS

1. **Nurfashareena, M.,** Lim, C. S., Reza, M. I. H. & Pereira, J. J. 2019. The needs of disaster susceptibility map as an input in land use management: Case study of Universiti Kebangsaan Malaysia. *Sains Malaysiana* 48 (1): 33-43
2. Pereira, J. J., **Nurfashareena, M.,** Ng, T. F., & Zamri, R. 2018. Advancing disaster resilience: Insights on landslide and karst susceptibility assessments. *Warta Geologi* 44 (1): 13-15.
3. **Nurfashareena, M.,** Lim, C. S., & Pereira, J. J. 2017. Flood hazard mapping in Kajang, Malaysia. In Shaw, R., Chan, E., Lian, F., Lu, L., Shi, P., Yang, S., Chan, G., & Wong, J. *Co-designing Disaster Risk Reduction Solutions: Towards Participatory Action and Communication in Science, Technology and Academia.* pp. 76-78.
4. **Nurfashareena, M.,** Lim, C. S., Reza, M. I. H. & Pereira, J. J. 2015. Urban hazards management: A case study of Langat River Basin, Peninsular Malaysia. *Proceeding of the 2015 International Conference on Space Science and Communication*, pp. 438-443.
5. **Nurfashareena, M.** & Shaharuddin, A. 2014. Analisis frekuensi kejadian bencana tanah runtuh di negara-negara sedang membangun [Analysis of landslide frequency in developing countries]. *Geografi* 2 (2): 128-138.
6. Kanniah, K. D., **Nurfashareena, M.** & Kang, C. S. 2014. Remote Sensing assessment of carbon storage by urban forest. *Proceeding of the 8th International Symposium of the Digital Earth*, pp. 1-5.
7. **Nurfashareena, M.,** Lim, C. S., Reza, M. I. H. & Pereira, J. J. 2013. Input geologi untuk sistem sokongan membuat keputusan dalam pengurusan risiko bencana: Kajian kes Universiti Kebangsaan Malaysia [Geological inputs for decision support in disaster risk management: Case-study of UKM]. *Bulletin of the Geological Society of Malaysia* 59: 73-84.

PROJECTS

1. GGPM-2018-041 (Leader) - Ramalan Multi-hazard Risiko Bencana untuk Kawasan Bandar: Kawasan Pilot Lembangan Sg. Langat
2. DPP-2018-008 (Member) - Aplikasi GIS dalam Pemetaan Indeks Kemudahterancaman Penghidupan Terhadap Bencana Banjir di Pahang
3. Newton/1/2018/TK01/UKM//2 (Member) - Integrated Modelling of Landslides due to Hydrometeorological Impacts in Langat Basin
4. XX-2017-002 (Member) - Disaster Resilient Cities:Forecasting Local Level Climate Extremes & Physical Hazards Kuala Lumpur

STUDENTS

1. Mr. Tariqur Rahman Bhuiyan (PhD) - Socioeconomic Impact & the Cost of Natural Disaster in Kuala Lumpur: Assessing Flash Flood & Landslide Events
2. Ms. Siti Hasniza Muhammad Arshad (PhD) - Keterdedahan Elemen-elemen Kritikal Terhadap Bahaya Banjir Kilat di Bandaraya KL

MAJOR CHALLENGE:

Misalignment of priorities (institutional & research); Sustaining writing productivity