



The 4th International Symposium on Flash Floods in Wadi Systems (4th ISFF2018)

“Urban Flood Risk Management: Mitigation and Adaptation Measures in the MENA Region”

December 4th - 6th December, 2018, Hotel Palace d'Anfa, Casablanca

POSTER SESSIONS PROGRAMME

Programme du 4^{ème} Symposium International sur les Inondations Rapides dans les Bassins des Oueds (4th ISFF2018)

"Gestion du risque d'inondations urbaines: Mesures d'atténuation et d'adaptation dans la région MENA"

4-6 Décembre, Hotel Palace d'Anfa, Casablanca, Maroc

PROGRAMME des SESSIONS POSTER

All sessions will be held in the Hotel conference hall

Toutes les sessions du Symposium auront lieu dans la salle de Conférence de l'Hôtel

1st Symposium Day: Tuesday December 4th, 2018

1^{er} Jour du Symposium: Mardi 4 Décembre 2018

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| 14:00-14:30 | 1st Poster session – 1^{ère} Session Posters |
| Chair: Dr. Mohammed Amin Hafnaoui, CRSTRA-Algeria and Dr. Ahmed Hadidi, Gutech-Oman | |
| Modeling of rainfall- discharge relationship by tank model, coupled with Kalman filter. Application to the Bouchegouf watershed (Wilaya of Guelma) | <i>Mohamed Amireche¹, Abdelmalek Bermad², Abdelkader Izerroukyene², Tarek Merabtene³ and Djamel Boutoutaou⁴</i> ¹ University of Oum El Bouaghi, Algeria ² Polytechnic National School, Algeria ³ University of University of Sharjah, United Arab Emirates ⁴ University of Ouargla, Algeria |
| Soil moisture applications and downscaling using SMOS and SMAP: Review | <i>Hibatoullah Laachrate¹, Abdelhamid Fadi², Abdessamad Ghafiri¹</i> ¹ Ben M'sik Faculty of Sciences, Hassan II University of Casablanca, Morocco ² Hassania School of Public Works, Casablanca, Morocco |

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| Pilot study of the flood forecast: Case of Oued Fes in Morocco | Badr El Fathi Euro-Mediterranean University of Fes, Morocco |
| Le développement du réseau d'annonce de crues déterminant dans la protection contre les inondations <i>Flood warning system development for flood control enhancement</i> | Hassan Elbadraoui, Miloud Ouchalla, Abdeljalil Lokrifa Cadi Ayyad University, Marrakech, Morocco |
| Stormwater network modelling of Ain Harrouda county, Morocco | Leila Ennajem, Dalila Loudyi Faculty of Sciences and Technics, Hassan II University of Casablanca, Morocco |
| Assessment of TRMM 3b42v7 satellite precipitation product using fully distributed hydrological model over the Blue Nile basin | Hadir Abd-El Moneim, Mohamed Reda Soliman and Hossam Mohamed Moghazy Faculty of Engineering, Alexandria University, Egypt |
| Assessment of Sentinel-1 potential for flood mapping in tropical catchments: Case of Bujumbura floodplain, Burundi | Emmanuel Niyongabire, Hassan Rhinane Hassan II University of Casablanca, Morocco |
| Study of the characteristics of the hydraulic jump in the abrupt expansion | Malika Aouimeur, Saadia Benmamar Polytechnic National School (ENP), Algeria |
| Coupled SWAT model and flood frequency analysis in Xeropotamos ungauged watershed, Greece. | Nada Joumar ¹ , Yiannis Kontogeorgeos ² , Ourania Tzoraki ² , Lahcen Benaabidate ³ , Dalila Loudyi ¹ ¹ Water and Environmental Engineering, Faculty of Sciences and Technics, Hassan II University of Casablanca, Morocco ² Aegean University, Greece ³ Faculty of Sciences and Technics, University Sidi Mohamed Ben Abdellah, Fez, Morocco |
| Analysis of rainfall extreme impact on Annaba city sewer system | Boutaghane Hamouda ¹ , Bessakelia Hanene ² , Kaouachi Anouar ³ ¹ Badji Mokhtar-Annaba University, Algeria ² Faculty of Technology, University of Abou Bekr Belkaid, Algeria ³ Amar Telidji University, Algeria |
| Synthesis of research work on the flooding phenomenon in the city of Annaba (from 2005 to 2018) | Hamouda Boutaghane Badji Mokhtar-Annaba University, Algeria |
| Evaluation of TRMM rainfall products on runoff prediction over Mellegue basin | Tayeb Boulmaiz ¹ , Hamouda Boutaghane ² ¹ Ghardaia university, Algeria ² Badji Mokhtar-Annaba University, Algeria |
| Overview of the economic, social and environmental damages of floods in the Sidi Ifni city -Morocco | Saad Aicha Polydisciplinary Faculty of Taroudant, Ibn Zohr University, Morocco |

Evaluation of vulnerability to flooding in Jeddah, Saudi Arabia: The neighborhood of Abruj al Aaghama as a case study

Saeed Alharbi, Gerald Mills

University College Dublin, Ireland

Three dimensional simulation of a centennial flood of Mohammedia city in wadi el Maleh watershed, Morocco

Mohamed Salem Chaabane, Naima Abouali, Taieb Boumeaza, Mohamed Zahouily

Hassan II University of Casablanca, Morocco

2nd Day of Symposium : Wednesday December 5th, 2018

2^{ème} Jour du Symposium: Mercredi 5 Décembre 2018

13:45-14:15

2nd Posters session - 2^{ème} Session Posters

Chair: Dr. Mohammed Amin Hafnaoui, CRSTRA-Algeria and Dr. Ahmed Hadidi, Gutech-Oman

Impact of the Mohammedia Benslimane landfill on the quality of groundwater

Zineb Hamri, Latifa Mouhir, Laila Saafadi, Salah Souabi

Faculty of Sciences and Technics-Mohammedia, Hassan II University of Casablanca, Morocco

L'intégration de l'adaptation au changement climatique dans la planification local : Cas des inondations à la Métropole Casablancaise

Nidal Lotfi , Mohammed-Said Karrouk

Integrating climate change adaptation in local planning: Casablanca city flood case

Faculty of Human Sciences of Ben M'Sick, Hassan II University of Casablanca, Morocco

Measuring technique for sediment transport during Wadi flash floods

Takahiro Koshiba, Sameh Kantoush, Tetsuya Sumi DRPI, Kyoto University, Japan

Impact analysis of a port development on beach stability

Mimoun Oukadr, Hassan Ayad, Mohamed Chagdali

Hassan II University of Casablanca, Morocco

Assessing resilience to floods based on PCA in three flood affected municipalities in Morocco

Narjiss Satouri¹, Badreddine Benyacoub¹, Otmane Raji², Ilias Kacimi¹

¹Mohammed V University, Rabat, Morocco

²Mohammed VI Polytechnic University, Bengrir, Morcco

Impact of floods on siltation of dams. Case Study: Al Wahda Dam on the Sebou Basin

Nouhaila Mazigh

Faculty of Sciences and Technics, Hassan II University of Casablanca, Morocco

Etude de la consommation actuelle des eaux du barrage Idriss Premier, Maroc septentrional

Marouane Laaraï¹, Lahcen Benaabidate¹, Valérie Mesnage²

¹Faculty of Sciences and Technics-Fez, Morocco

²Université de Rouen, France

Traditional techniques of water resources exploitation and flood control in arid environments: Case of the Oases of Maïder in south-east of Morocco

Mouhcine Ayacine¹, Abdeslam Taleb², Mohamed El Bouchikh³, Khalid Obda¹

¹Faculty of Humans Sciences Saïs, Fez, Morocco

²Faculty of Sciences and Technics, Mohammedia, Morocco

³Polydisciplinar Faculty, Taza, USMBA, Morocco

Les risques des précipitations extrêmes sur la ville de Casablanca: inondations de l'oued Bouskoura

Majda Chair, Mohamed Saïd Karrouk

Extreme rainfall risks in Casablanca city: Oued Bouskoura floods

Faculty of Human Sciences, Hassan II University of Casablanca, Morocco

Study of the Effects of Stabilized Leachate Residues from the City of Mohammedia's Landfill Site on Regional Waters and Soils

Jamal Mabrouki¹, Souad El Hajjaji¹, Ahmed Moufti²

¹Faculty of Sciences, Mohammed V University of Rabat, Morocco

²Regional Center for Careers in Education and Training Casablanca-Settat, Morocco

Potential impacts of groundwater flooding on urban areas and the role of remote sensing and GIS techniques in preventing it.

Aicha Ousrhire¹, Abdessamad Ghafiri¹, Hassane Oulidi Jarar²

¹Hassan II University of Casablanca, Morocco

²Hassania School of Public Works (EHTP), Morocco

Protection study against the flooding of the city of Sidi Kassi – north east Algeria

Iyes Lekouaghet, Besma Abdelmadjid and Hamouda Boutaghane

Badji Mokhtar Annaba, Algeria

Flood Protection Dams in Oman

Munir Al Zadjali

Ministry of Regional Municipalities and Water Resources, Oman

Designing of Jurf dam in Duqm on geologically complicated foundation rocks – a case study

Saif Al Hinai, Maroof Shah, Mohammed Al Mahrouqi

Oman Company for the Development of Special Economic Zone Authority at Duqm, Oman

Aménagement de la plaine de Bouteldja nord est algérien contre les inondations

Soraya Bouslah and Fouad Sennaoui

University Badji Mokhtar- Annaba, Algeria

Plain management against flood in Bouteldja north east of Algeria