

# ABDESLAM AANNAQUE



**Born 12/21/1963**

## CONTACT

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## LANGUAGES

Arabic – mother

French – fluent

English – fluent

Spanish – intermediate

## OBJECTIVE

Learning to better serve my students.

## WORK EXPERIENCE

10/1988 – 01/1989  
Senior engineer in Office Cherifien des Phosphates - Direction des  
Exploitations Chimiques de Safi- Division Maroc-Phosphore I

01/1989 – 05/1996  
Professor assistant at Mohammadia Engineering School, Mineral  
Engineering Department - Morocco

05/1996 – 05/2002  
Senior Lecture at Mohammadia Engineering School, Mineral  
Engineering Department - Morocco

05/2002 – Today  
Professor at Mohammadia Engineering School, Mineral Engineering  
Department - Morocco

## EDUCATION

1983 - 1988  
Engineering Degree in Mechanical Engineering - Mohammadia  
Engineering School - Rabat

1990 - 1996  
Ph. D. from Aston University in Birmingham – UK (Keith Perkins price for  
Best Performance)

## TEACHING

Maintenance Management  
Haulage in mines  
Vibrations  
Mechanisms and machine theory  
Introduction to Databases

## CERTIFICATS

2001 Microsoft Certified Professional in Database Administration  
2003 CCNA (Cisco Certified Network Associate)  
2003 CCIA (Cisco Certified Instructor Associate)  
2005 WLANFE (Wireless LAN for Field Engineers)  
2008 UNDP Review specialist  
2009 CCNA Security  
2016 Security Intelligence Engineer - Explorer Award for Educators 2016  
– 2018 Issued by IBM Skills Academy

## PUBLICATIONS

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- Aannaque, A.; Garvey, S. , J Penny, M. Bennouna, « Operation of a Four-Bar Mechanism Above Several Critical Speeds » ASME, Journal of Vibration and Acoustics, April 1996 vol. 118, no2, pp 198-203
- A Aannaque, SD Garvey, JET Penny & MI Friswell, « Operation of Flexible Mechanisms at High Speed » Proceeding of the 21st International Seminar on Modal Analysis (ISMA21), Leuven, Belgium, September 1996 , 857-868
- Bendaou, O ; Elhami, A ; Aannaque, A ; Agouzoul, M « Problèmes stochastiques d'interaction Fluide-Structure » La Cinquième Rencontre Nationale des Jeunes Chercheurs en Physique (RNJCP), Casablanca-Maroc, 19 et 20 Décembre 2006..
- Bendaou, O ; Elhami, A ; Aannaque, A ; Agouzoul, M « Reduction size for Fluid-Structure interaction problems» the XII International Symposium on Dynamic Problems of Mechanics (DINAME 2007), Ilhabela-SP-Brazil, 26 février-2 Mars 2007.
- Bendaou, O ; Elhami, A ; Aannaque, A ; Agouzoul, M «Résolution des problèmes d'interaction fluide-structure à paramètres incertains par la méthode de synthèse modale alliée à la méthode de Muscolino. » 7ème Congrès International Pluridisciplinaire (Qualita 2007), Tanger-Maroc, 20, 21 et 22 mars 2007.
- Bendaou, O ; Elhami, A ; Aannaque, A ; Agouzoul, M «Application de la méthode de synthèse modale alliée à une méthode de perturbation, pour le Calcul de la réponse dynamique d'une structure couplée à un fluide et dont les paramètres sont incertains. » 8ème congrès de Mécanique, Eljadida-Maroc, 17 au 20 Avril 2007.
- Bendaou, O; Elhami, A ; Aannaque, A ; Agouzoul, M « Stochastic and Reliability Analysis for Fluid-Structure Interaction Problems.» The International Conference on NonConvex Programming: Local and Global Approaches Theory, Algorithms and Applications , Rouen-France, 17 au 21 December 2007.
- Bendaou, O; Elhami, A; Aannaque, A; Agouzoul, M « A Condensing Method for Stochastic Hydro-Elastic Problems » Journal of Recent Patents on Mechanical Engineering, Volume 1, 2008 pp 72 -80. DOI: [10.2174/1874477x10801010072](https://doi.org/10.2174/1874477x10801010072)
- Bendaou O., Elhami A., Aannaque A, Agouzoul M., « Problèmes stochastiques d'interaction fluide/structure : Application à un Réservoir d'Eau », Congrès Tunisien de Mécanique, Hammamet-Tunisie, 17-19 Mars, 2008.
- Bendaou O., Elhami A., Aannaque A, Agouzoul M., « Calculation time optimization for stochastic analysis of an industrial structure », International Journal for Simulation and Multidisciplinary Design Optimization, 2008. DOI: [10.1051/smdo:2008018](https://doi.org/10.1051/smdo:2008018)
- O. Bendaou and J. E. Roja and A. Elhami and A. Aannaque, «Stochastic and reliability analysis of a propeller with model reduction », European Journal of Computational Mechanics, Vol 18 n:2, 2009. DOI: [10.3166/ejcm.18.195-215](https://doi.org/10.3166/ejcm.18.195-215)
- AIT ALI, M. E., AGOUZOUL, M., & AANNAQUE, A. (2020). Analytical and numerical study of an oscillating liquid inside a U-tube used as wave energy converter. 2020 5th International Conference on Renewable Energies for Developing Countries (REDEC). DOI:[10.1109/redec49234.2020.9163900](https://doi.org/10.1109/redec49234.2020.9163900)
- Mohamed Aly Abdel Kader and Abdeslam Aannaque (2023), «Identification of Kinematic Chains Isomorphism Based on the Distance between Non-binary Vertices», International Journal of Mechanical

Engineering and Robotics Research. DOI: [10.18178/ijmerr.12.5.297-305](https://doi.org/10.18178/ijmerr.12.5.297-305)  
Mohamed Aly Abdel Kader and Abdeslam Aannaque (2023), «Using Rows and Columns of Distance Matrix to Identify Isomorphisms in Kinematic Chains», International Journal of Mechanical Engineering and Robotics Research. DOI: [10.18178/ijmerr.12.3.159-168](https://doi.org/10.18178/ijmerr.12.3.159-168)  
Mohamed Aly Abdel Kader and Abdeslam Aannaque (2023), «Identification of Isomorphism in Kinematic Chains by Using the Reduced Graph Matrix», International Journal of Mechanical Engineering and Robotics Research. DOI: [10.18178/ijmerr.12.4.239-248](https://doi.org/10.18178/ijmerr.12.4.239-248)

## **IT SKILLS**

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Virtualization: VMware vSphere, Microsoft HyperV  
Databases: MS SQL Server, MySQL  
Programming: Matlab, VBA, Python  
Networking: Cisco CCNA, Cisco CCNA Security  
Content Management Systems (CMS): Wordpress  
LMS: Moodle  
Email : Microsoft Exchange (MBX, HUB, CAS)  
Firewalls : Microsoft ISA, TMG , Fortigate  
SMTP Gateways : Trend Micro IMSVA, Fortimail

## **HOBBIES**

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Aikido 4<sup>th</sup> DAN From AIKIKAI  
Swimming