



Abdelmajid BENAMARA

Full Professor in mechanical engineering - PHD

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Monastir, TUNISIA

Highly motivated, creative, and well-organized full Professor in engineering, with various experiences in leadership (Highly ranked positions in leadership in the Tunisian Ministry of Higher Education and Scientific Research), I have also been appointed as the Tunisian Representative in the ALECSO organisation. I benefited from numerous trainings in STI (Science Tech & innovation) and accreditation in USA, South Korea, and UK.

Fluent spoken and written French, English, and Arabic, with proven abilities in IT skills, negotiation and team working I gained intercultural awareness from collaborating with people from almost all over the world.

Academic Degrees:

- PHD (Doctoral joint degree):
Computer Science and Automation
1998 - [UPHF](#), France.
- PHD (Doctoral joint degree):
Mechanical Engineering
1998 - [ENIT](#), Tunisia
- Master of Engineering Degree:
Mechanical Engineering
1992 - [ENIT](#), Tunisia
- Bachelor of Technical Science:
Mechanical Engineering
1990 [ENSIT](#) - Tunisia

International Collaborations

- UQTR – CANADA
- Ecole Centrale de Paris – FRANCE
- Polytech Savoie – FRANCE,
- ETS Montreal – CANADA
- Arizona State University - USA

Langages

Arabic (Mother tongue)
French (Bilingual)
English (Excellent written and spoken)

Scientific publications

- More than 100 scientific papers published in several scientific journals
- 04 scientific Book contributions
- More than 200 Papers published in national and international Conferences.
- More than 15 PHD thesis work and 15 Masters supervised and defunded.

Main Work Experiences

- **Nov 2020 – Present** CEO of the National Higher Education Publishing Center in MHESR - Tunisia
- **Jan 19 – Nov 20** DG of Higher Education in MHESR – Tunisia
Chief and Manager of the whole budget of the Higher Education in TUNISIA
- **Dec 16 – Jan 19** Director of Scientific Research in MHESR – Tunisia
Chief and Manager of the whole budget of the Scientific Research in TUNISIA
- **Jan 19 – Present** Tunisian Representative in ALECSO commission of research and Innovation
- **Aug 11 – Dec 16** Dean of National Engineering School of Monastir
- **1999 – 2001** Head of Mechanical Engineering Department (ENIM)
- **1994 – Present** Professor of Mechanical Engineering (ENIM)
- **2000 – 2010** Invited Professor at Tunisian Polytechnic Engineering School
- **2008 – 2011** Invited Professor: Polytech Savoie (FR), ECP Paris (FR), UQTR (CA)
- **2008 – 2011** Certified Evaluator with Tunisian Accreditation and Quality Assurance Agency ([EIAQA](#)).
- **2020 – Present** Member of the [AArU](#) Quality Assurance and Accreditation Council.

Main Teaching Activities

- **1998 – 2016** **National Engineering school of Monastir:**
 - *Computer Aided Design (CATIA – SolidWorks);*
 - *Computer Aided Manufacturing.*
 - *Integrated Design.*
 - *Shape geometric modeling.*
 - *Product Design.*
 - *Advanced modeling in CAD/CAM Systems*
- **2001 – 2011** **Tunisia Polytechnic School:**
 - *Advanced modelling in Mechanical Design,*
 - *ANSYS Finite Element Method Simulation*

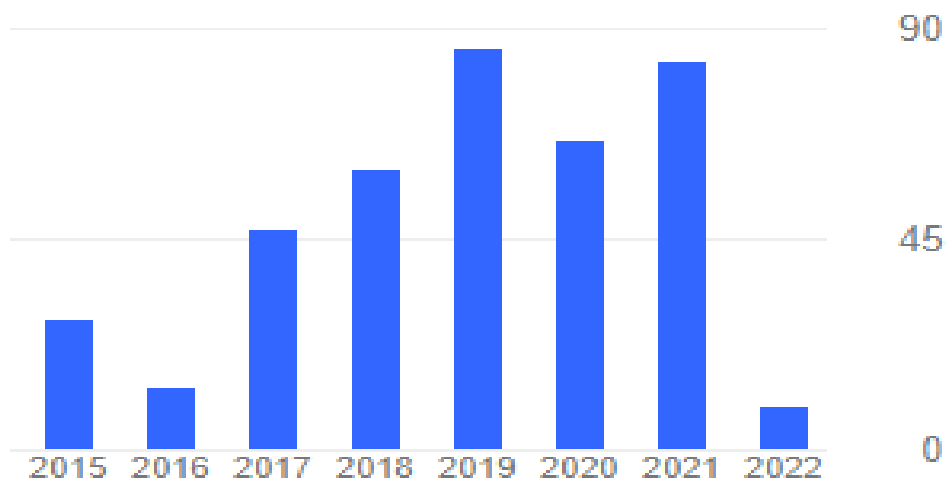
Key skills, activities and interests

- Leadership skills
- Intercultural awareness skills
- Public governance and public finance
- Engineering and renewable energy
- Effective communication and negotiation
- Professional Software: Ms Office 365, CATIA V5, SolidWorks, Pro Engineer, ANSYS.
- MS Project. CATIA, SolidWorks
- Computer programming: C++, JavaScript
- Clean driving licence
- Sport: walking
- Elsevier and Clarivate platforms : Scopus, Scival, Incites.

Journal Publications : 2020 - 2000

Source : <https://scholar.google.fr/citations?hl=fr&pli=1&user=wNuFfAQAAAAI>

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Scientific International Publications

<u>TITLES</u>	<u>YEAR</u>
<u>A CAD Model for the Tolerancing of Non-rigid Parts Assemblies</u> A Benamara Advances in Mechanical Engineering, Materials and Mechanics: Selected ...	2020
<u>Design and Modeling of Mechanical Systems-IV: Proceedings of the 8th Conference on Design and Modeling of Mechanical Systems, CMSM'2019, March 18–20, Hammamet, Tunisia</u> N Aifaoui, Z Affi, MS Abbes, L Walha, M Haddar, L Romdhane, ... Springer Nature	2020
<u>From Assembly Planning to Secondary Assembly's Lines Identification</u> A Benamara Design and Modeling of Mechanical Systems-IV: Proceedings of the 8th ...	2020
<u>A Computer Aided Tolerancing (CAT) Tool of Non-rigid Cylindrical Parts Assemblies</u> A BenAmara Design and Modeling of Mechanical Systems-IV: Proceedings of the 8th ...	2020
<u>Proposal of a New Based Scenarios Eco-Manufacturing Methodology on CAD Phase</u> A Benamara Design and Modeling of Mechanical Systems-IV: Proceedings of the 8th ...	2020
<u>Proposal of new eco-manufacturing feature interaction-based methodology in CAD phase</u> H Ben Slama, R Gaha, A Benamara The International Journal of Advanced Manufacturing Technology 106 (3), 1057 ...	2020
<u>A CAD Model for the Tolerancing of Non-rigid Parts Assemblies</u> A Korbi, M Tlija, B Louhichi, A Benamara International Conference on Advances in Mechanical Engineering and Mechanics ...	2019
<u>A novel model for the tolerancing of nonrigid part assemblies in computer aided design</u> M Tlija, A Korbi, B Louhichi, A Benamara Journal of Computing and Information Science in Engineering 19 (4)	2019
<u>From Assembly Planning to Secondary Assembly's Lines Identification</u> I Belhadj, M Trigui, N Aifaoui, A Benamara International Conference Design and Modeling of Mechanical Systems, 1-11	2019
<u>A Computer Aided Tolerancing (CAT) Tool of Non-rigid Cylindrical Parts Assemblies</u> A Korbi, M Tlija, B Louhichi, A BenAmara International Conference Design and Modeling of Mechanical Systems, 23-32	2019

<p><u>Proposal of a New Based Scenarios Eco-Manufacturing Methodology on CAD Phase</u> HB Slama, R Gaha, A Benamara International Conference Design and Modeling of Mechanical Systems, 41-46</p>	2019
<p><u>CAD/tolerancing integration: a new approach for tolerance analysis of non-rigid parts assemblies</u> A Korbi, M Tlija, B Louhichi, A BenAmara The International Journal of Advanced Manufacturing Technology 98 (5), 2003-2013</p>	2018
<p><u>A CAD Model for Tolerance Analysis of non-rigid Planar parts assemblies</u> A Korbi, M Tlija, B Louhichi, A BenAmara Procedia CIRP 70, 126-131</p>	2018
<p><u>Design and Modeling of Mechanical Systems—III: Proceedings of the 7th Conference on Design and Modeling of Mechanical Systems, CMSM'2017, March 27–29, Hammamet, Tunisia</u> M Haddar, F Chaari, A Benamara, M Chouchane, C Karra, N Aifaoui Springer</p>	2017
<p><u>Model of mobility state of parts: The automation of feasibility test in disassembly sequence generation</u> L Issaoui, N Aifaoui, A Benamara Proceedings of the Institution of Mechanical Engineers, Part C: Journal of ...</p>	2017
<p><u>Proposal of a new process of products environmental assessment/improvement on CAD phase</u> R Gaha, B Yannou, A Benamara Congrès Français de Mécanique (CFM)</p>	2017
<p><u>Stratégie de désassemblage d'un modèle CAO basée sur le concept de «sous-assemblage»</u> I Belhadj, RB Hadj, M Trigui, N Aifaoui, A Benamara CFM 2017-23ème Congrès Français de Mécanique</p>	2017
<p><u>Proposal of a new process of products environmental assessment/improvement on CAD phase</u> G Raoudha, B Yannou, A Benamara CFM 2017-23ème Congrès Français de Mécanique</p>	2017
<p><u>Disassembly plan approach based on subassembly concept</u> M Trigui, I Belhadj, A Benamara The International Journal of Advanced Manufacturing Technology 90 (1), 219-231</p>	2017
<p><u>Solidworks—MATLAB coupling for disassembly plan generation in a cae environment</u> I Belhadj, R Ben Hadj, M Trigui, N Aifaoui, A BenAmara International Conference Design and Modeling of Mechanical Systems, 781-790</p>	2017

<u>Proposition of Eco-feature: a new CAD/PLM data model for an LCA tool</u>	2017
R Gaha, A Benamara, B Yannou International Conference Design and Modeling of Mechanical Systems, 763-770	
<u>Modelling and implementation of geometric and technological information for disassembly simulation in CAD environment</u>	2017
L Issaoui, N Aifaoui, A Benamara The International Journal of Advanced Manufacturing Technology 89 (5), 1731-1741	
<u>Design and Modeling of Mechanical Systems—III</u>	2017
M Haddar, F Chaari, A Benamara, M Chouchane, C Karra, N Aifaoui Conference proceedings CMSM, 59	
<u>Subassembly identification method based on CAD data</u>	2017
I BELHADJ, M TRIGUI, A BENAMARA Advances on Mechanics, Design Engineering and Manufacturing, 55-62	
<u>Subassembly generation algorithm from a CAD model</u>	2016
I Belhadj, M Trigui, A Benamara The International Journal of Advanced Manufacturing Technology 87 (9), 2829-2840	
<u>Selection of a green manufacturing process based on CAD features</u>	2016
R Gaha, B Yannou, A Benamara The International Journal of Advanced Manufacturing Technology 87 (5), 1335-1343	
<u>Solution space reduction of disassembly sequences generated automatically via computer aids</u>	2015
L Issaoui, N Aifaoui, A Benamara Proceedings of the Institution of Mechanical Engineers, Part C: Journal of ...	
<u>An algorithm for CAD tolerancing integration: generation of assembly configurations according to dimensional and geometrical tolerances</u>	2015
B Louhichi, M Tlija, A Benamara, A Tahan Computer-Aided Design 62, 259-274	
<u>An environmental impact/cost model for evaluating multiple feature-based machining methods</u>	2015
R Gaha, A Benamara, B Yannou Design and Modeling of Mechanical Systems-II, 21-27	
<u>A new eco-design approach on CAD systems</u>	2014
R Gaha, B Yannou, A Benamara International journal of precision engineering and manufacturing 15 (7 ...	
<u>Eco-design of a basin mixer in geometric modeling phase</u>	2014
R Gaha, A Benamara, B Yannou Key engineering materials 572, 7-11	

<u>Integration of tolerances in the mechanical product process: Assembly with defects modelling.</u>	2013
M Tlija, B Louhichi, A Benamara Congrès français de mécanique	
<u>Tool for generation of analysis models by simplification of CAD model</u>	2013
M Hamdi, N Aifaoui, B Louhichi, A Benamara Congrès français de mécanique	
<u>Application of the CSP Approach and the Interval Computation for the Optimal Sizing of a Compression Spring</u>	2013
M Haddar, J Louati, L Romdhane, A Benamara 5th International Congress on Design and Modeling of Mechanical Systems (CMSM)	
<u>FEM Simulation Based on CAD Model Simplification: A Comparison Study between the Hybrid Method and the Technique Using a Removing Details</u>	2013
M Hamdi, N Aifaoui, B Louhichi, A Benamara, D Deneux Fifth International Conference on Design and Modeling of Mechanical Systems ...	
<u>Ecodesigning with CAD features: analysis and proposals</u>	2013
R Gaha, A Benamara, B Yannou Advances in Mechanical Engineering 5, 531714	
<u>A feature-based methodology for eco-designing parts on detail phase</u>	2013
R Gaha, A Benamara, B Yannou Design and Modeling of Mechanical Systems, 645-654	
<u>A new method for tolerance integration in CAD model</u>	2013
M Tlija, B Louhichi, A BenAmara Proceedings of the International Conference on Control Engineering and ...	
<u>Evaluating the effect of tolerances on the functional requirements of assemblies</u>	2013
M Tlija, B Louhichi, A BenAmara Mechanics & Industry 14 (3), 191-206	
<u>Mates Updating of Rigid and Fully Constrained Assembly with Defects</u>	2013
T Mehdi, L Borhen, A Benamara Design and Modeling of Mechanical Systems, 655-662	
<u>Disassembly Method for Early Stages of Design</u>	2013
L Issaoui, M Kheder, N Aifaoui, A Benamara Design and Modeling of Mechanical Systems, 577-585	
<u>FEM simulation based on CAD model simplification: a comparison study between the hybrid method and the technique using a removing details</u>	2013
H Mounir, A Nizar, L Borhen, A Benamara, D Deneux Design and modeling of mechanical systems, 587-596	

- Automatic comparison and remeshing applied to CAD model modification 2011
 JC Cuillière, V François, K Souaissa, A Benamara, H BelHadjSalah
 Computer-Aided Design 43 (12), 1545-1560
- Méthode multi-objectifs et multi-critères pour la génération de modèle de simulation par simplification de modèle CAO 2011
 M Hamdi, N Aifaoui, B Louhichi, A Benamara
 CFM 2011-20ème Congrès Français de Mécanique
- Integration of tolerances in the mechanical product process 2011
 M Tlija, B Louhichi, A BenAmara
 Proceedings of International conference on Innovative Methods in Product ...
- Influence of geometrical characteristics on ecodesigned products 2011
 R Gaha, A Benamara, B Yannou
 Proc. of the Int. Conf. on Innovation Methods in Product Design, 242-247
- Model for Sweeping Possible Assemblies with Defects in CAD Environment 2011
 M Tlija, B Louhichi, A Benamara
 International Review of Mechanical Engineering 5 (4), 630-636
- Computer aided tolerancing based on analysis and synthetizes of tolerances method 2011
 A Hassani, N Aifaoui, A Benamara, S Samper
 arXiv preprint arXiv:1102.3112
- Automatic Disassembly Approach for Mechanical Products 2010
 L Issaoui, N Aifaoui, B Louhichi, A Benamara
 International Review of Mechanical Engineering 4 (5), 552-561
- Automatic modification retrieval between CAD parts 2010
 K Souaissa, JC Cuillière, V François, A Benamara, H BelHadjSalah
 Mechanics & Industry 11 (2), 85-92
- Simplification of CAD geometry using an hybrid method for efficient integration to FEM model 2010
 M Hamdi, N Aifaoui, B Louhichi, A BenAmara
 Proceedings of IDMME
- An optimization-based computational method for surface fitting to update the geometric information of an existing B-Rep CAD model 2010
 B Louhichi, N Aifaoui, M Hamdi, A BenAmara, V Francois
 International Journal of CAD/CAM 9 (1), 17-24
- Idealization of CAD model for a simulation by a finite element method 2010
 M Hamdi, N Aifaoui, B Louhichi, A BenAmara
 European Journal of Computational Mechanics/Revue Européenne de Mécanique ...

- Rebuilding of CAD model from deformed mesh important displacement case 2009
B Louhichi, M Tlija, A BenAmara, V Francois
MECANIQUE ET INDUSTRIES 10 (6), 477-486
- Reconstruction d'un modèle CAO à partir d'un maillage déformé: Application dans le cas de grands déplacements 2009
B Louhichi, M Tlija, A BenAmara, V François
Mechanics & Industry 10 (6), 477-486
- CAD/CAE interoperability, an automatic generation of Analysis Model based on idealization of CAD geometry 2009
M Hamdi, N Aifaoui, B Louhichi, A Benamara
CFM 2009-19ème Congrès Français de Mécanique
- Vectorisation de modèle CAO pour la détection automatique des modifications géométriques. 2009
K Souaissa, A Benamara, H Belhadjsalah, V François
CFM 2009-19ème Congrès Français de Mécanique
- Automatic reconstruction of CAD model from a deformed mesh 2009
B Louhichi, A Benamara, V François
European Journal of Computational Mechanics 18 (3-4), 177-194
- Reconstruction automatique des entités d'un modèle BREP à partir d'un maillage déformé 2009
B Louhichi, A BenAmara, V François
European Journal of Computational Mechanics/Revue Européenne de Mécanique ...
- Automatic CAD models comparison and re-meshing in the context of mechanical design optimization 2009
JC Cuillère, V François, K Souaissa, A Benamara, H BelHadjSalah
Proceedings of the 18th International Meshing Roundtable, 231-245
- Tolerance analyses and optimisations methodology in integrated design: TOL-ANALYSES 2008
A Hassani, N Alfaoui, A Benamara, S Samper
Mecanique & industries 9 (5), 381-395
- Méthodologie d'analyse et d'optimisation des tolérances dans un contexte de conception intégrée: TOL ANALYSES 2008
A Hassani, N Aifaoui, A Benamara, S Samper
Mechanics & Industry 9 (5), 381-395
- Intégration CAO/Calcul par reconstruction du modèle CAO à partir des résultats éléments finis. 2008
B Louhichi
Université du Centre

- Idealization of CAD Geometry using Design and Analysis Integration Features Models 2007
M Hamdi, N Aifaoui, A Benamara
DS 42: Proceedings of ICED 2007, the 16th International Conference on ...
- Etat de l'art des méthodes d'idéalisation en CAO 2007
M Hamdi, N Aifaoui, A Benamara
CMSM'07
- CAD/analysis integration 2006
A Benamara
Ecole Nationale d'Ingénieurs de Monastir
- Design and analysis integration model based on idealization of CAD geometry 2006
M Hamdi, N Aifaoui, A Benamara
The international conference on advances in mechanical engineering and ...
- Intégration CAO/Calcul par reconstruction des modèles CAO à partir des résultats de calcul: Application à la simulation de la cinématique d'un assemblage 2005
B LOUHICHI, A BENAMARA, V FRANCOIS
Revue internationale d'ingénierie numérique 1 (1), 9-26
- Interopérabilité des processus de conception et de calcul: Une approche basée sur les fealures de calcul 2004
N AIFAOU, A BENAMARA, A DOGUI
Journal européen des systèmes automatisés 38 (3-4), 443-464
- Mechanical analysis process modeling based on analysis features 2002
N Aifaoui, D Deneux, A Benamara, R Soenen, A Dogui
IEEE International Conference on Systems, Man and Cybernetics 3, 6 pp.
vol. 3
- PRODUCTIQUE, METHODES ET OUTILS-CPI'99-Conception integree-CAD/Analysis integration. An integrated functional approach 2000
A Benamara, N Ifaoui, D Deneux
RAIRO-APII-JESA-Journal Europeen des Systemes Automatisés 34 (2-3), 247-258
- Intégration CAO/calcul une démarche fonctionnelle intégrée 2000
A Benamara, N Ifaoui, D Deneux
Journal européen des systèmes automatisés 34 (2-3), 247-258