Liste des productions scientifiques
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Année 2017

LABORATOIRE de: **Mécanique & Structures**

SPECIALITE: MECANIQUE						
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Prediction of Tool Wear in the Turning Process Using the Spectral Center of Gravity	Babouri, M.K. Ouelaa, N. Djamaa, M.C. Djebala, A. Hamzaoui, N.	Journal of Failure Analysis and Prevention	*2017*	*17*	*905-913*	*https://link.springer.com/article/10.1007/s11668-017-0319-y*
Simulation of the dynamic behavior of a rotor subject to base motion under variable rotational speed	Bouziani, R. Ouelaa, N.	Mechanics and Industry	*2017*	*18*	*308-323*	*https://www.mechanics-industry.org/articles/meca/abs/2017/03/mi160044/mi160044.html*
The dynamic response of a continuous plate for different surface states	Guebailia, M. Ouelaa, N.	Diagnostyka	*2017*	*18(4)*	*11-17*	*http://www.diagnostyka.net.pl/The-dynamic-response-of-a-continuous-plate-for-different-surface-states,79764,0,1.html*
Application of the Empirical Mode Decomposition method for the prediction of the tool wear in turning operation	Babouri, M.K. Ouelaa, N. Djebala, A.	Mechanika	*2017*	*23(2)*	*315-320*	*http://mechanika.ktu.lt/index.php/Mech/article/view/8971*
Perceptual study of simple and combined gear defects	Younes, R. Ouelaa, N. Hamzaoui, N. Djebala, A.	Lecture Notes in Mechanical Engineering	*2017*	*Publisher Name Springer, Cham https://doi.org/10.1007/978-3-319-41468-3_17*	*219-225*	*https://link.springer.com/chapter/10.1007%2F978-3-319-41468-3_17*
Experimental study of real gear transmission defects using sound perception	Ouelaa, N. Younes, R. Hamzaoui, N. Djebala, A.	Lecture Notes in Mechanical Engineering	*2017*	*Publisher Name Springer, Cham https://doi.org/10.1007/978-3-319-41468-3_21*	*267-274*	*https://link.springer.com/chapter/10.1007/978-3-319-41468-3_21*
Prediction of cutting tool's optimal lifespan based on	Babouri, M.K. Ouelaa, N.,	Lecture Notes in Mechanical	*2017*	*Publisher Name Springer, Cham*	*299-310*	*https://link.springer.com/chapter/10.1007/978-3-319-41468-3_24*

the scalar indicators and the wavelet multi-resolution analysis	Djebala, A. Djamaa M.C. Boucherit, S.	Engineering		*https://doi.org/10.1007/978-3-319-41468-3_24*		
Fault diagnosis through the application of cyclostationarity to signals measured	Kebabsa, T. Ouelaa, N. Antoni, J. Khettabi, R. Djebala, A.	Lecture Notes in Mechanical Engineering	*2017*	*Publisher Name Springer, Cham* *https://doi.org/10.1007/978-3-319-41468-3_20*	*251-266*	*https://link.springer.com/chapter/10.1007/978-3-319-41468-3_20*
Free Vibration of a Multi-span Road Bridge Supported by Point Elastic Supports	M. Guebailia N. Ouelaa	Design and Modeling of Mechanical Systems III	*2017*	*Publisher Name Springer, Cham* *https://doi.org/10.1007/978-3-319-66697-6_10*	*91-96*	*https://link.springer.com/chapter/10.1007/978-3-319-66697-6_10*
Experimental Study of Combined Gear and Bearing Faults by Sound Perception	R. Younes N. Ouelaa N. Hamzaoui A. Djebala	Advances in Acoustics and Vibration	*2017*	*Publisher Name Springer, Cham* *https://doi.org/10.1007/978-3-319-41459_1*	*145-151*	*https://books.google.dz/books?id=QIX2DAAAQBAJ&pg=PA145&lpg=PA145&dq=Experimental+Study+of+Combined+Gear+and+Bearing+Faults+by+Sound+Perception&source=bl&ots=QV1piuYCe7&sig=SCvB6SVhBj7fWoly8m87CcZSNq8&hl=fr&sa=X&ved=0ahUKEwjqp838z7TaAhUQC-wKHT0wBu4Q6AEIRDAE#v=onepage&q=Experimental%20Study%20of%20Combined%20Gear%20and%20Bearing%20Faults%20by%20Sound%20Perception&f=false*
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Comparative assessment of coated and uncoated ceramic tools on cutting force components and tool wear in hard turning of AISI H11 steel using Taguchi plan and RMS	H.Aouici, A.Khellaf, S.Smaiah, B.Fnides, M.A.Yallese	Sadhana - Academy Proceedings in Engineering Sciences (Springer)	*2017*	*42(12), pp.*	*2157-2170*	*https://www.scopus.com/authid/detail.uri?authorId=16641654800*
Investigation of the performance of the MQL, dry, and wet turning by response surface methodology (RSM) and artificial neural network (ANN)	M.Nouioua, M.A.Yallese, R.Khettabi, (...), M.L.Bouhalais, F.Girardin, .	International Journal of Advanced Manufacturing Technology (Springer)	*2017*	*93(5-8),*	*2485-2504*	*https://www.scopus.com/authid/detail.uri?authorId=16641654800*
Machining of tough polyethylene pipe material: surface roughness and	N.Hamlaoui, S.Azzouz, . K.Chaoui,	International Journal of Advanced Manufacturing	*2017*	*92(5-8),*	*2231-2245*	*https://www.scopus.com/authid/detail.uri?authorId=16641654800*

cutting temperature optimization	Z.Azari, M.A.Yallese,	Technology (Springer)				
Modeling and optimization in dry face milling of X2CrNi18-9 austenitic stainless steel using RMS and desirability approach	A.A.Selaimia, M.A.Yallese, H.Bensouilah, R.Khattabi, T.Mabrouki,	Measurement: Journal of the International Measurement Confederation	*2017*	*107,*	*53-67*	*https://www.scopus.com/authid/detail.uri?authorId=16641654800*
Comparative assessment of cooling conditions, including MQL technology on machining factors in an environmentally friendly approach	M.Nouioua, M.AYallese, R.Khettabi, S.Belhadi, T.Mabrouki,	International Journal of Advanced Manufacturing Technology (Springer)	*2017*	*91(9-12),*	*3079-3094*	*https://www.scopus.com/authid/detail.uri?authorId=16641654800*
Quality-productivity decision making when turning of inconel 718 aerospace alloy: A response surface methodology approach	H.Tebassi, M.A.Yallese, S.Belhadi, F.Girardin, T.Mabrouki,	International Journal of Industrial Engineering Computations	*2017*	*8(3),*	*347-362*	*https://www.scopus.com/authid/detail.uri?authorId=16641654800*
Modeling and optimization of turning process parameters during the cutting of polymer (POM C) based on RSM, ANN, and DF methods	A.Chabbi, M.A.Yallese, M.Nouioua, T.Mabrouki, F.Girardin,	International Journal of Advanced Manufacturing Technology (Springer)	*2017*	*91(5-8),*	*2267-2290*	*https://www.scopus.com/authid/detail.uri?authorId=16641654800*
Design optimization for minimum technological parameters when dry turning of AISI D3 steel using Taguchi method	O.Zerti, M.A.Yallese, R.Khettabi, K.Chaoui, T.Mabrouki,	International Journal of Advanced Manufacturing Technology (Springer)	*2017*	*89(5-8),*	*1915-1934*	*https://www.scopus.com/authid/detail.uri?authorId=16641654800*
Design optimization of cutting parameters when turning hardened AISI H11 steel (50 HRC) with CBN7020 tools	S.Benlahmidi, H.Aouici, F.Boutaghane, B.Fnides, M.A.Yallese,	International Journal of Advanced Manufacturing Technology (Springer)	*2017*	*89(1-4),*	*803-820*	*https://www.scopus.com/authid/detail.uri?authorId=16641654800*
Comparative assessment of two ceramic cutting tools on surface roughness in hard turning of AISI H11 steel: including 2D and 3D surface topography	A.Khellaf, H.Aouici, S.Smaiah, M.AYallese, M.Elbah,	International Journal of Advanced Manufacturing Technology (Springer)	*2017*	*89(1-4),*	*333-354*	*https://www.scopus.com/authid/detail.uri?authorId=16641654800*
Effects of coating material and cutting parameters on	O.Keblouti, L.Boulanouar,	Structural Engineering and Mechanics	*2017*	*61(4),*	*519-526*	*https://www.scopus.com/authid/detail.uri?authorId=16641654800*

the surface roughness and cutting forces in dry turning of AISI 52100 steel	M.W.Azizi, M.A.Yallese, .					
Modeling and multi-objective optimization of surface roughness and productivity in dry turning of AISI 52100 steel using (TiCN-TiN) coating cermet tools	O.Keblouti, L.Boulanouar, M.W.Azizi, M.A.Yallese, .	International Journal of Industrial Engineering Computations	*2017*	*8(1),*	*71-84*	*https://www.scopus.com/authid/detail.uri?authorId=16641654800*
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On the modeling of surface roughness and cutting force when turning of inconel 718 using artificial neural network and response surface methodology: Accuracy and beneft	H.Tebassi, M.A.Yallese, I.Meddour, F.Girardin, T.Mabrouki,	Periodica Polytechnica Mechanical Engineering	*2017*	*61(1),*	*1-11*	*https://www.scopus.com/authid/detail.uri?authorId=16641654800*
Modeling and optimization of surface roughness and productivity thru RSM in face milling of AISI 1040 steel using coated carbide inserts	M.Fnides, M.A.Yallese, R.Khattabi, T.Mabrouki, F.Girardin, F.	International Journal of Industrial Engineering Computations	*2017*	*8(4),*	*493-512*	*https://www.scopus.com/authid/detail.uri?authorId=16641654800*
Predictive modeling and multi-response optimization of technological parameters in turning of Polyoxymethylene polymer (POM C) using RSM and desirability function	A.Chabbi, M.A.Yallese, I.Meddour, T.Mabrouki, F.Girardin,	Measurement: Journal of the International Measurement Confederation	*2017*	*95,*	*99-115*	*https://www.scopus.com/authid/detail.uri?authorId=16641654800*
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Machinability analysis of dry drilling of carbon/epoxy composites: cases of exit delamination and cylindricity error	M.F.Ameur, M.Habak, M.Kenane, H.Aouici, M.Cheikh,	International Journal of Advanced Manufacturing Technology	*2017*	*88(9-12),*	*2557-2571*	*https://www.scopus.com/authid/detail.uri?authorId=24176841200*
Multi-objective optimization of ANN fault diagnosis model for rotating machinery using grey rational analysis in Taguchi method	T.Khoualdia, A.E.Hadjadj, K.Bouacha, D.Ould Abdeslam,	International Journal of Advanced Manufacturing Technology	*2017*	*89(9-12),*	*3009-3020*	*https://www.scopus.com/authid/detail.uri?authorId=35232647200*
Effect of MQL and dry processes on the particle emission and part quality during milling of aluminum alloys	R. Khettabi, M. Nouioua, A. Djebara, V. Songmene	The International Journal of Advanced Manufacturing Technology	*2017*	*92*	*2593-2598*	*https://link.springer.com/article/10.1007/s00170-017-0339-5*
Host-guest complex of nabumetone: β-cyclodextrin: quantum chemical study and QTAIM analysis	N. Bensouilah, B. Boutemeur, H. Bensouilah, I. Meddour, M. Abdaoui	Journal of Inclusion Phenomena and Macrocyclic Chemistry	*2017*	*87 (1-2)*	*191-206*	*https://link.springer.com/article/10.1007/s10847-016-0690-4*
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Publications nationales						
Modélisation de la rugosité et de la dureté de surface par la méthodologie de surface de réponse de l'acier S 355 J0 traité par galetage	M. Tourab, H. Hamadache, S. Belhadi.	Synthèse: Revue des Sciences et de la Technologie	*2017*	*34 (1),*	*163-176*	*https://scholar.google.fr/citations?hl=fr&user=BI8hgMUAAAAJ&view_op=list_works&sortby=pubdate*
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Analyse statique et modale des poutres sandwiches à âme en hérex c70 et peaux en teffetas	A. Hadjab L. Fatmi N. Ouelaa R. Khettabi	Le 4ème séminaire international sur les technologies mécaniques avancées STEMA2017 Tlemcen, Algérie	*2017*			*https://ft.univ-tlemcen.dz/en/evenements/67/stema-2017*
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Modeling and optimization of surface roughness in turning hardened steel	M.W. Azizi M. A. Yallese O. Keblouti A. Lagred L. Boulanouar	Congrès international sur les matériaux et la stabilité structurelle CMSS-2017, Novembre 2017,Rabat, Maroc	*2017*			*http://fsr.um5.ac.ma/cmss17/fr/index.html*
Mathematical modeling and multi-objective optimization of technological parameters in hard turning operation using RSM and genetic algorithmic approach	A. Khellaf, M A Yallese, S. Boutabba M.Habak, H. Aouici, S. Smaiah	Congrès Français de Mécanique, Septembre 2017, Lille, France	*2017*			*https://cfm2017.sciencesconf.org/130745/document*
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RSM and ANN based models in turning process :Adequacy and precision benefit	H. Tebassi, S. Boucherit, M. A. Yallese, I. Meddour S. Belhadi	2ème Congrès International sur les Ingénieries Civile, Mécanique et Electrique pour l'Energie –Novembre 2017, Marrakech	*2017*			
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